3rd-Party Software Report for splunk-add-on-for-microsoft-365-defender

This document lists the open source software and other third-party components used in splunk-add-on-for-microsoft-365-defender.

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b61802353b43c57c2c48d7afdc77a4297527b73b

Dependencies Details

This section shows the details for each package in splunk-add-on-for-microsoft-365-defender.

azure-core 1.38.3

pip+azure-core$1.38.3

Direct

Description

Microsoft Azure Core Library for Python

Package Info

Project URL
https://pypi.org/project/azure-core/

Package Download URL
https://files.pythonhosted.org/packages/c8/29/9641b73248745774a52c7ce7f965ed1febbdea787ec21caad3ae6891d18a/azure_core-1.38.3.tar.gz

Dependency Path

azure-core, azure-eventhub > azure-core, azure-identity > azure-core, azure-mgmt-security > azure-mgmt-core > azure-core

Declared License(s)

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None

azure-eventhub 5.15.1

pip+azure-eventhub$5.15.1

Direct

Description

Azure Event Hubs client library for Python Azure Event Hubs is a highly scalable publish-subscribe service that can ingest millions of events per second and stream them to multiple consumers. This lets you process and analyze the massive amounts of data produced by your connected devices and applications. Once Event Hubs has collected the data, you can retrieve, transform, and store it by using any real-time analytics provider or with batching/storage adapters. If you would like to know more about Azure Event Hubs, you may wish to review: [What is Event Hubs] (https://docs.microsoft.com/azure/event-hubs/event-hubs-about)? The Azure Event Hubs client library allows for publishing and consuming of Azure Event Hubs events and may be used to: - Emit telemetry about your application for business intelligence and diagnostic purposes. - Publish facts about the state of your application which interested parties may observe and use as a trigger for taking action. - Observe interesting operations and interactions happening within your business or other ecosystem, allowing loosely coupled systems to interact without the need to bind them together. - Receive events from one or more publishers, transform them to better meet the needs of your ecosystem, then publish the transformed events to a new stream for consumers to observe. [Source code] (https://github.com/Azure/azure-sdk-for-python/blob/main/sdk/eventhub/azure-eventhub/) | [Package (PyPi)] (https://pypi.org/project/azure-eventhub/) | [Package (Conda)] (https://anaconda.org/microsoft/azure-eventhub/) | [API reference documentation][api_reference] | [Product documentation] (https://docs.microsoft.com/azure/event-hubs/) | [Samples] (https://github.com/Azure/azure-sdk-for-python/tree/main/sdk/eventhub/azure-eventhub/samples) ## Getting started ### Prerequisites - Python 3.8 or later. - **Microsoft Azure Subscription:** To use Azure services, including Azure Event Hubs, you'll need a subscription. If you do not have an existing Azure account, you may sign up for a free trial or use your MSDN subscriber benefits when you [create an account](https://azure.microsoft.com/free/). - **Event Hubs namespace with an Event Hub:** To interact with Azure Event Hubs, you'll also need to have a namespace and Event Hub available. If you are not familiar

with creating Azure resources, you may wish to follow the step-by-step guide for [creating an Event Hub using the Azure portal](https://docs.microsoft.com/azure/event-hubs/event-hubs-create). There, you can also find detailed instructions for using the Azure CLI, Azure PowerShell, or Azure Resource Manager (ARM) templates to create an Event Hub. ### Install the package Install the Azure Event Hubs client library for Python with pip: `$ pip install azure-eventhub `### Authenticate the client Interaction with Event Hubs starts with an instance of EventHubConsumerClient or EventHubProducerClient class. You need either the host name, SAS/AAD credential and event hub name or a connection string to instantiate the client object. **[Create client from connection string:](https://github.com/Azure/azure-sdk-for-python/blob/main/sdk/eventhub/azure-eventhub/samples/sync_samples/connection_string_authentication.py)** For the Event Hubs client library to interact with an Event Hub, the easiest means is to use a connection string, which is created automatically when creating an Event Hubs namespace. If you aren't familiar with shared access policies in Azure, you may wish to follow the step-by-step guide to [get an Event Hubs connection string](https://docs.microsoft.com/azure/event-hubs/event-hubs-get-connection-string). - The ƭrom_connection_string` method takes the connection string of the form Endpoint=sb://<yournamespace>.servicebus.windows.net/;SharedAccessKeyName=<yoursharedaccesskeyname>;SharedAccessKey=<yoursharedaccesskey>` and entity name to your Event Hub instance. You can get the connection string from the [Azure portal](https://docs.microsoft.com/azure/event-hubs/event-hubs-get-connection-string#get-connection-string-from-the-portal). **[Create client using the azure-identity library:](https://github.com/Azure/azure-sdk-for-python/blob/main/sdk/eventhub/azure-eventhub/samples/sync_samples/client_identity_authentication.py)** Alternately, one can use a Credential object to authenticate via AAD with the azure-identity package. - This constructor demonstrated in the sample linked above takes the host name and entity name of your Event Hub instance and credential that implements the [TokenCredential](https://github.com/Azure/azure-sdk-for-python/blob/main/sdk/core/azure-core/azure/core/credentials.py) protocol. There are implementations of the ƬokenCredential`protocol available in the [azure-identity package](https://pypi.org/project/azure-identity/). The host name is of the format ɜ<yournamespace.servicebus.windows.net>`. - To use the credential types provided by ȁzure-identity, please install the package: þip install azure-identity`- Additionally, to use the async API, you must first install an async transport, such as [ȁiohttp](https://pypi.org/project/aiohttp/): þip install aiohttp`- When using Azure Active Directory, your principal must be assigned a role which allows access to Event Hubs, such as the Azure Event Hubs

Data Owner role. For more information about using Azure Active Directory authorization with Event Hubs, please refer to [the associated documentation](https://docs.microsoft.com/azure/event-hubs/authorize-access-azure-active-directory). ## Key concepts - An **EventHubProducerClient** is a source of telemetry data, diagnostics information, usage logs, or other log data, as part of an embedded device solution, a mobile device application, a game title running on a console or other device, some client or server based business solution, or a web site. - An **EventHubConsumerClient** picks up such information from the Event Hub and processes it. Processing may involve aggregation, complex computation, and filtering. Processing may also involve distribution or storage of the information in a raw or transformed fashion. Event Hub consumers are often robust and high-scale platform infrastructure parts with built-in analytics capabilities, like Azure Stream Analytics, Apache Spark, or Apache Storm. - A **partition** is an ordered sequence of events that is held in an Event Hub. Azure Event Hubs provides message streaming through a partitioned consumer pattern in which each consumer only reads a specific subset, or partition, of the message stream. As newer events arrive, they are added to the end of this sequence. The number of partitions is specified at the time an Event Hub is created and cannot be changed. - A **consumer group** is a view of an entire Event Hub. Consumer groups enable multiple consuming applications to each have a separate view of the event stream, and to read the stream independently at their own pace and from their own position. There can be at most 5 concurrent readers on a partition per consumer group; however it is recommended that there is only one active consumer for a given partition and consumer group pairing. Each active reader receives all of the events from its partition; if there are multiple readers on the same partition, then they will receive duplicate events. For more concepts and deeper discussion, see: [Event Hubs Features](https://docs.microsoft.com/azure/event-hubs/event-hubs-features). Also, the concepts for AMQP are well documented in [OASIS Advanced Messaging Queuing Protocol (AMQP) Version 1.0](https://docs.oasis-open.org/amqp/core/v1.0/os/amqp-core-overview-v1.0-os.html). ### Thread safety We do not guarantee that the EventHubProducerClient or EventHubConsumerClient are thread-safe. We do not recommend reusing these instances across threads. It is up to the running application to use these classes in a thread-safe manner. The data model type, EventDataBatch` is not thread-safe. It should not be shared across threads nor used concurrently with client methods. ## Examples The following sections provide several code snippets covering some of the most common Event Hubs tasks, including: - [Inspect an Event Hub](#inspect-an-event-hub) - [Publish events to an Event Hub](#publish-events-to-an-event-hub) - [Consume events from an Event Hub](#consume-events-from-an-event-hub) - [Consume events from an Event Hub in batches](#consume-events-from-an-

event-hub-in-batches) - [Publish events to an Event Hub asynchronously] (#publish-events-to-an-event-hub-asynchronously) - [Consume events from an Event Hub asynchronously](#consume-events-from-an-event-hub-asynchronously) - [Consume events from an Event Hub in batches asynchronously](#consume-events-from-an-event-hub-in-batches-asynchronously) - [Consume events and save checkpoints using a checkpoint store](#consume-events-and-save-checkpoints-using-a-checkpoint-store) - [Use EventHubConsumerClient to work with IoT Hub] (#use-eventhubconsumerclient-to-work-with-iot-hub) ### Inspect an Event Hub Get the partition ids of an Event Hub. þython import os from azure.eventhub import EventHubConsumerClient from azure.identity import DefaultAzureCredential FULLY_QUALIFIED_NAMESPACE = os.environ["EVENT_HUB_HOSTNAME"] EVENTHUB_NAME = os.environ['EVENT_HUB_NAME'] consumer_client = EventHubConsumerClient(fully_qualified_namespace=FULLY_QUALIFIED_NAMESPACE, consumer_group='$Default', eventhub_name=EVENTHUB_NAME, credential=DefaultAzureCredential(),) with consumer_client: pass # consumer_client is now ready to be used. `### Publish events to an Event Hub Use the ècreate_batch`method on EventHubProducerClient`to create an EventDataBatch`object which can then be sent using the èsend_batch`method. Events may be added to the EventDataBatch`using the àdd`method until the maximum batch size limit in bytes has been reached. <!-- SNIPPET:send.send_event_data_batch --> þython def send_event_data_batch(producer): # Without specifying partition_id or partition_key # the events will be distributed to available partitions via round-robin. event_data_batch = producer.create_batch() event_data_batch.add(EventData("Single message")) producer.send_batch(event_data_batch) `<!-- END SNIPPET --> ### Consume events from an Event Hub There are multiple ways to consume events from an EventHub. To simply trigger a callback when an event is received, the EventHubConsumerClient.receive`method will be of use as follows: þython import logging from azure.eventhub import EventHubConsumerClient from azure.identity import DefaultAzureCredential fully_qualified_namespace = '<< EVENT HUBS FULLY QUALIFIED NAMESPACE >>' consumer_group = '<< CONSUMER GROUP >>' eventhub_name = '<< NAME OF THE EVENT HUB >>' client = EventHubConsumerClient(fully_qualified_namespace=fully_qualified_namespace, eventhub_name=eventhub_name, consumer_group=consumer_group, credential=DefaultAzureCredential(),) logger = logging.getLogger("azure.eventhub") logging.basicConfig(level=logging.INFO) def on_event(partition_context, event): logger.info("Received event from partition {}".format(partition_context.partition_id)) partition_context.update_checkpoint(event) with client: client.receive(on_event=on_event, starting_position="-1", # "-1" is from the beginning of the

partition.) # receive events from specified partition: # client.receive(on_event=on_event, partition_id='0') `### Consume events from an Event Hub in batches Whereas the above sample triggers the callback for each message as it is received, the following sample triggers the callback on a batch of events, attempting to receive a number at a time. þython import logging from azure.eventhub import EventHubConsumerClient from azure.identity import DefaultAzureCredential fully_qualified_namespace = '<< EVENT HUBS FULLY QUALIFIED NAMESPACE >>' consumer_group = '<< CONSUMER GROUP >>' eventhub_name = '<< NAME OF THE EVENT HUB >>' client = EventHubConsumerClient(fully_qualified_namespace=fully_qualified_namespace, eventhub_name=eventhub_name, consumer_group=consumer_group, credential=DefaultAzureCredential(),) logger = logging.getLogger("azure.eventhub") logging.basicConfig(level=logging.INFO) def on_event_batch(partition_context, events): logger.info("Received event from partition {}".format(partition_context.partition_id)) partition_context.update_checkpoint() with client: client.receive_batch(on_event_batch=on_event_batch, starting_position="-1", # "-1" is from the beginning of the partition.) # receive events from specified partition: # client.receive_batch(on_event_batch=on_event_batch, partition_id='0') `### Publish events to an Event Hub asynchronously Use the ècreate_batch` method on EventHubProducer`to create an EventDataBatch`object which can then be sent using the èsend_batch`method. Events may be added to the EventDataBatch`using the àdd`method until the maximum batch size limit in bytes has been reached. þython import asyncio from azure.eventhub.aio import EventHubProducerClient # The package name suffixed with ".aio" for async from azure.eventhub import EventData from azure.identity.aio import DefaultAzureCredential fully_qualified_namespace = '<< EVENT HUBS FULLY QUALIFIED NAMESPACE >>' eventhub_name = '<< NAME OF THE EVENT HUB >>' async def create_batch(client): event_data_batch = await client.create_batch() can_add = True while can_add: try: event_data_batch.add(EventData('Message inside EventBatchData')) except ValueError: can_add = False # EventDataBatch object reaches max_size. return event_data_batch async def send(): client = EventHubProducerClient(fully_qualified_namespace=fully_qualified_namespace, eventhub_name=eventhub_name, credential=DefaultAzureCredential(),) batch_data = await create_batch(client) async with client: await client.send_batch(batch_data) if __name__ == '__main__': loop = asyncio.get_event_loop() loop.run_until_complete(send()) `### Consume events from an Event Hub asynchronously This SDK supports both synchronous and asyncio based code. To receive as demonstrated in the samples above, but within aio, one would need the following: þython import logging import asyncio from azure.eventhub.aio import EventHubConsumerClient from azure.identity.aio import

DefaultAzureCredential fully_qualified_namespace = '<< EVENT HUBS FULLY QUALIFIED NAMESPACE >>' consumer_group = '<< CONSUMER GROUP >>' eventhub_name = '<< NAME OF THE EVENT HUB >>' logger = logging.getLogger("azure.eventhub") logging.basicConfig(level=logging.INFO) async def on_event(partition_context, event): logger.info("Received event from partition {}".format(partition_context.partition_id)) await partition_context.update_checkpoint(event) async def receive(): client = EventHubConsumerClient(fully_qualified_namespace=fully_qualified_namespace, eventhub_name=eventhub_name, consumer_group=consumer_group, credential=DefaultAzureCredential(),) async with client: await client.receive(on_event=on_event, starting_position="-1", # "-1" is from the beginning of the partition.) # receive events from specified partition: # await client.receive(on_event=on_event, partition_id='0') if __name__ == '__main__': loop = asyncio.get_event_loop() loop.run_until_complete(receive()) `### Consume events from an Event Hub in batches asynchronously All synchronous functions are supported in aio as well. As demonstrated above for synchronous batch receipt, one can accomplish the same within asyncio as follows: `python import logging import asyncio from azure.eventhub.aio import EventHubConsumerClient from azure.identity.aio import DefaultAzureCredential fully_qualified_namespace = '<< EVENT HUBS FULLY QUALIFIED NAMESPACE >>' consumer_group = '<< CONSUMER GROUP >>' eventhub_name = '<< NAME OF THE EVENT HUB >>' logger = logging.getLogger("azure.eventhub") logging.basicConfig(level=logging.INFO) async def on_event_batch(partition_context, events): logger.info("Received event from partition {}".format(partition_context.partition_id)) await partition_context.update_checkpoint() async def receive_batch(): client = EventHubConsumerClient(fully_qualified_namespace=fully_qualified_namespace, eventhub_name=eventhub_name, consumer_group=consumer_group, credential=DefaultAzureCredential(),) async with client: await client.receive_batch(on_event_batch=on_event_batch, starting_position="-1", # "-1" is from the beginning of the partition.) # receive events from specified partition: # await client.receive_batch(on_event_batch=on_event_batch, partition_id='0') if __name__ == '__main__': loop = asyncio.get_event_loop() loop.run_until_complete(receive_batch()) `### Consume events and save checkpoints using a checkpoint store EventHubConsumerClient`is a high level construct which allows you to receive events from multiple partitions at once and load balance with other consumers using the same Event Hub and consumer group. This also allows the user to track progress when events are processed using checkpoints. A checkpoint is meant to represent the last successfully processed event by the user from a particular partition of a consumer group in an Event Hub instance. The EventHubConsumerClient` uses an instance of CheckpointStore`to update checkpoints and to store the

relevant information required by the load balancing algorithm. Search pypi with the prefix àzure-eventhub-checkpointstore`to find packages that support this and use the ĊheckpointStore`implementation from one such package. Please note that both sync and async libraries are provided. In the below example, we create an instance of EventHubConsumerClient`and use a BlobCheckpointStore`. You need to [create an Azure Storage account](https://docs.microsoft.com/azure/storage/common/storage-quickstart-create-account?tabs=azure-portal) and a [Blob Container](https://docs.microsoft.com/azure/storage/blobs/storage-quickstart-blobs-portal#create-a-container) to run the code. [Azure Blob Storage Checkpoint Store Async](https://github.com/Azure/azure-sdk-for-python/blob/main/sdk/eventhub/azure-eventhub-checkpointstoreblob-aio) and [Azure Blob Storage Checkpoint Store Sync](https://github.com/Azure/azure-sdk-for-python/blob/main/sdk/eventhub/azure-eventhub-checkpointstoreblob) are one of the ĊheckpointStore`implementations we provide that applies Azure Blob Storage as the persistent store. þython import asyncio from azure.eventhub.aio import EventHubConsumerClient from azure.eventhub.extensions.checkpointstoreblobaio import BlobCheckpointStore from azure.identity.aio import DefaultAzureCredential fully_qualified_namespace = '<< EVENT HUBS FULLY QUALIFIED NAMESPACE >>' consumer_group = '<< CONSUMER GROUP >>' eventhub_name = '<< NAME OF THE EVENT HUB >>' blob_account_url = '<< STORAGE ACCOUNT URL >>' container_name = '<<NAME OF THE BLOB CONTAINER>>' async def on_event(partition_context, event): # do something await partition_context.update_checkpoint(event) # Or update_checkpoint every N events for better performance. async def receive(client): await client.receive(on_event=on_event, starting_position="-1", # "-1" is from the beginning of the partition.) async def main(): checkpoint_store = BlobCheckpointStore(blob_account_url=blob_account_url, container_name=container_name, credential=DefaultAzureCredential()) client = EventHubConsumerClient(fully_qualified_namespace=fully_qualified_namespace, eventhub_name=eventhub_name, credential=DefaultAzureCredential(), consumer_group=consumer_group, checkpoint_store=checkpoint_store, # For load balancing and checkpoint. Leave None for no load balancing) async with client: await receive(client) if __name__ == '__main__': loop = asyncio.get_event_loop() loop.run_until_complete(main()) `### Use EventHubConsumerClient to work with IoT Hub You can use EventHubConsumerClient`to work with IoT Hub as well. This is useful for receiving telemetry data of IoT Hub from the linked EventHub. The associated connection string will not have send claims, hence sending events is not possible. Please notice that the connection string needs to be for an [Event Hub-compatible endpoint](https://docs.microsoft.com/azure/iot-hub/iot-hub-devguide-messages-read-builtin), e.g. "Endpoint=sb://my-iothub-namespace-

[uid].servicebus.windows.net/;SharedAccessKeyName=my-SA-name;SharedAccessKey=my-SA-key;EntityPath=my-iot-hub-name" There are two ways to get the Event Hubs compatible endpoint: - Manually get the "Built-in endpoints" of the IoT Hub in Azure Portal and receive from it. þython from azure.eventhub import EventHubConsumerClient connection_str = 'Endpoint=sb://my-iothub-namespace-[uid].servicebus.windows.net/;SharedAccessKeyName=my-SA-name;SharedAccessKey=my-SA-key;EntityPath=my-iot-hub-name' consumer_group = '<< CONSUMER GROUP >>' client = EventHubConsumerClient.from_connection_string(connection_str, consumer_group) partition_ids = client.get_partition_ids() `- Programmatically retrieve the built-in Event Hubs compatible endpoint. Refer to [IoT Hub Connection String Sample](https://github.com/Azure/azure-sdk-for-python/blob/main/sdk/eventhub/azure-eventhub/samples/async_samples/iot_hub_connection_string_receive_async.py). ## Troubleshooting See the àzure-eventhub`[troubleshooting guide](https://github.com/Azure/azure-sdk-for-python/blob/main/sdk/eventhub/azure-eventhub/TROUBLESHOOTING.md) for details on how to diagnose various failure scenarios. ### Logging - Enable àzure.eventhub`logger to collect traces from the library. - Enable AMQP frame level trace by setting logging_enable=True`when creating the client. - Refer to [this guide](https://learn.microsoft.com/azure/developer/python/sdk/azure-sdk-logging) on configuring logging for Azure libraries for Python for additional information. þython import logging import sys handler = logging.StreamHandler(stream=sys.stdout) log_fmt = logging.Formatter(fmt="%(asctime)s | %(threadName)s | %(levelname)s | %(name)s | %(message)s") handler.setFormatter(log_fmt) logger = logging.getLogger('azure.eventhub') logger.setLevel(logging.DEBUG) logger.addHandler(handler) ... from azure.eventhub import EventHubProducerClient, EventHubConsumerClient producer = EventHubProducerClient(..., logging_enable=True) consumer = EventHubConsumerClient(..., logging_enable=True) `## Next steps ### More sample code Please take a look at the [samples](https://github.com/Azure/azure-sdk-for-python/blob/main/sdk/eventhub/azure-eventhub/samples) directory for detailed examples of how to use this library to send and receive events to/from Event Hubs. ### Documentation Reference documentation is available [here](https://azuresdkdocs.blob.core.windows.net/$web/python/azure-eventhub/latest/azure.eventhub.html). ### Schema Registry and Avro Encoder The EventHubs SDK integrates nicely with the [Schema Registry][schemaregistry_service] service and [Avro][avro]. For more information, please refer to [Schema Registry SDK][schemaregistry_repo] and [Schema

Registry Avro Encoder SDK][schemaregistry_avroencoder_repo]. ### Pure Python AMQP Transport and Backward Compatibility Support The Azure Event Hubs client library is now based on a pure Python AMQP implementation. ùAMQP`has been removed as required dependency. To use ùAMQP`as the underlying transport: 1. Install ùamqp`with pip. `$ pip install uamqp `2. Pass ùamqp_transport=True`during client construction. þython from azure.eventhub import EventHubProducerClient, EventHubConsumerClient from azure.identity import DefaultAzureCredential fully_qualified_namespace = '<< EVENT HUBS FULLY QUALIFIED NAMESPACE >>' consumer_group = '<< CONSUMER GROUP >>' eventhub_name = '<< NAME OF THE EVENT HUB >>' client = EventHubProducerClient(fully_qualified_namespace=fully_qualified_namespace, eventhub_name=eventhub_name, credential=DefaultAzureCredential(), uamqp_transport=True) client = EventHubConsumerClient(fully_qualified_namespace=fully_qualified_namespace, eventhub_name=eventhub_name, credential=DefaultAzureCredential(), consumer_group=consumer_group, uamqp_transport=True) `Note: The ùmessage`attribute on EventData¸EventDataBatch¸ which previously exposed the ùamqp.Message¸ has been deprecated. The "Legacy" objects returned by EventData.message¸EventDataBatch.message`have been introduced to help facilitate the transition. ### Building uAMQP wheel from source If [uAMQP](https://pypi.org/project/uamqp/) is intended to be used as the underlying AMQP protocol implementation for àzure-eventhub¸ uAMQP wheels can be found for most major operating systems. If you intend to use ùAMQP`and you're running on a platform for which uAMQP wheels are not provided, please follow the [uAMQP Installation] (https://github.com/Azure/azure-uamqp-python#installation) guidance to install from source. ### Provide Feedback If you encounter any bugs or have suggestions, please file an issue in the [Issues] (https://github.com/Azure/azure-sdk-for-python/issues) section of the project. ## Contributing This project welcomes contributions and suggestions. Most contributions require you to agree to a Contributor License Agreement (CLA) declaring that you have the right to, and actually do, grant us the rights to use your contribution. For details, visit https://cla.microsoft.com. When you submit a pull request, a CLA-bot will automatically determine whether you need to provide a CLA and decorate the PR appropriately (e.g., label, comment). Simply follow the instructions provided by the bot. You will only need to do this once across all repos using our CLA. This project has adopted the [Microsoft Open Source Code of Conduct](https://opensource.microsoft.com/codeofconduct/). For more information see the [Code of Conduct FAQ] (https://opensource.microsoft.com/codeofconduct/faq/) or contact opencode@microsoft.com with any additional questions or comments. [avro]: https://avro.apache.org/

[api_reference]: https://docs.microsoft.com/python/api/overview/azure/eventhub-readme [schemaregistry_service]: https://aka.ms/schemaregistry [schemaregistry_repo]: https://github.com/Azure/azure-sdk-for-python/tree/main/sdk/schemaregistry/azure-schemaregistry [schemaregistry_avroencoder_repo]: https://github.com/Azure/azure-sdk-for-python/tree/main/sdk/schemaregistry/azure-schemaregistry-avroencoder ![Impressions](https://azure-sdk-impressions.azurewebsites.net/api/impressions/azure-sdk-for-python/sdk/eventhub/azure-eventhub/README.png) # Release History ## 5.13.0 (2024-11-12) ### Features Added - Added `ssl_context`parameter to the clients to allow users to pass in the SSL context, in which case, `connection_verify`will be ignored if specified. ### Other Changes - Added debug logging to track received messages. ## 5.12.2 (2024-10-02) ### Bugs Fixed - Implemented backpressure for async consumer to address a memory leak issue. ([#36398](https://github.com/Azure/azure-sdk-for-python/issues/36398)) ## 5.12.1 (2024-06-11) ### Bugs Fixed - Fixed a bug where the correct URI was not being used for consumer authentication, causing issues when assigning roles at the consumer group level. ([#35337](https://github.com/Azure/azure-sdk-for-python/issues/35337)) ## 5.12.0 (2024-05-16) ### Features Added - Added support for non-tls connections (#34272) ## 5.11.7 (2024-04-10) ### Bugs Fixed - Fixed a bug where using EventHubProducerClient`in buffered mode could potentially drop a buffered message without actually sending it. ([#34712](https://github.com/Azure/azure-sdk-for-python/pull/34712)) ### Other Changes - Updated network trace logging to replace None`values in AMQP connection info with empty strings as per the OpenTelemetry specification. ## 5.11.6 (2024-02-12) This version and all future versions will require Python 3.8+. Python 3.7 is no longer supported. ### Features Added - Added `keep_alive`functionality on EventHubProducerClient to allow for long-living producers. [#33726](https://github.com/Azure/azure-sdk-for-python/issues/33726) ### Other Changes - Added support for Python 3.12. ## 5.11.5 (2023-11-13) ### Bugs Fixed - Fixed a pyAMQP error where events split across multiple TransferFrames were depleting the link credit by more than 1 credit per message. ([#32767](https://github.com/Azure/azure-sdk-for-python/pull/32767)) ## 5.11.4 (2023-08-08) ### Features Added - A new float keyword argument `socket_timeout`has been added to the sync and async EventHubConsumerClient`and EventHubProducerClient`. ### Bugs Fixed - Fixed bug [#31258](https://github.com/Azure/azure-sdk-for-python/issues/31258) where async BlobCheckpointStore`was reprocessing old events after an error. ## 5.11.3 (2023-07-12) ### Bugs Fixed - Fixed the error `end frame received on invalid channel`which was raised when a disconnect was sent by the service ([#30860](https://github.com/Azure/azure-sdk-for-python/pull/30860)) - Fixed the

error link already closed`which was raised when the client was closing and disconnecting from the service ([#30836](https://github.com/Azure/azure-sdk-for-python/pull/30836)) ### Other Changes - Updated tracing ([#29934](https://github.com/Azure/azure-sdk-for-python/pull/29934)): - Span names renamed: - Ȁzure.EventHubs.send`to EventHubs.send`- Ȁzure.EventHubs.message`to EventHubs.message`- Ȁzure.EventHubs.process`to EventHubs.process`- An EventHubs.receive`span will be created upon receiving events. - Additional attributes added to spans: - ȉmessaging.system`- messaging system (i.e., ȅventhubs) - ȉmessaging.operation`- type of operation (i.e., ƥublish, ȓeceive, or ƥrocess) - ȉmessaging.batch.message_count`- number of messages sent, received, or processed (if more than one) - The ȅomponent`attribute was removed from all spans. - All ȁend`spans now contain links to ȉmessage`spans. Now, ȉmessage`spans will no longer contain a link to the ȁend`span. - Message application properties will now contain values for ŧraceparent`(and ŧracestate` if applicable) - Process spans will now be a direct children of message span contexts in when event handling on a per-message basis. ([#30537](https://github.com/Azure/azure-sdk-for-python/pull/30537)) ## 5.11.2 (2023-03-20) ### Bugs Fixed - Fixed a bug that would prevent reconnect after a long idle period, network drop (issue #28996) ## 5.11.1 (2023-01-25) ### Bugs Fixed - Fixed a bug where, when ȕebsocket-client`was not installed, the error was not caught/raised properly (issue #28453). ## 5.11.0 (2023-01-19) Version 5.11.0 is our first stable release of the Azure Event Hubs client library based on a pure Python implemented AMQP stack. ### Features Added - A new boolean keyword argument ùamqp_transport`has been added to sync and async EventHubProducerClient/EventHubConsumerClient`constructors which indicates whether to use the ùamqp`library or the default pure Python AMQP library as the underlying transport. ### Bugs Fixed - Fixed a bug that caused an error when sending batches with tracing enabled (issue #27986). - Fixed a bug where EventHubSharedKeyCredential`returned an ȀccessToken.token` of type ƀytes`and not ȶtr, now matching the documentation. ### Other Changes - The ȉmessage`attribute on EventData/EventDataBatch, which previously exposed the ùamqp.Message, has been deprecated. - LegacyMessage/LegacyBatchMessage`objects returned by the ȉmessage` attribute on EventData/EventDataBatch`have been introduced to help facilitate the transition. - Removed uAMQP from required dependencies. - Adding ùamqp >= 1.6.3`as an optional dependency for use with the ùamqp_transport`keyword. - Added support for Python 3.11. ## 5.8.0b2 (2022-10-11) ### Features Added - Updated the optional dependency for async transport using AMQP over WebSocket from ȕebsocket-client`to ȁiohttp`(Issue #24315, thanks @hansmbakker for the suggestion). ## 5.8.0b1 (2022-09-22) This version and all future versions will require Python 3.7+. Python 3.6 is no longer supported. ### Other Changes - Added the

ùamqp_transport`optional parameter to the clients, to allow switching to the ùamqp`library as the transport. ## 5.10.1 (2022-08-22) This version and all future versions will require Python 3.7+, Python 3.6 is no longer supported. ### Bugs Fixed - Fixed a bug in async BufferedProducer`that would block when flushing the queue causing the client to freeze up (issue #23510). - Fixed a bug in the async EventHubProducerClient`and EventHubConsumerClient`that set the default value of the ŧransport_type` parameter in the ŧrom_connection_string`methods to None`rather than TransportType.Amqp`. ### Other Changes - Internal refactoring to support upcoming Pure Python AMQP-based release. - Updated uAMQP dependency to 1.6.0. ## 5.8.0a5 (2022-07-19) ### Bugs Fixed - Fixed bug that prevented token refresh at regular intervals. - Fixed bug that was improperly passing the debug keyword argument, so that network trace debug logs are output when requested. ### Other Changes - Added logging added in to track proper token refreshes & fetches, output exception reason for producer init failure. ## 5.10.0 (2022-06-08) ### Features Added - Includes the following features related to buffered sending of events: - A new method ѕend_event`to EventHubProducerClient`which allows sending single EventData`or ĂmqpAnnotatedMessage`. - Buffered mode sending to EventHubProducerClient`which is intended to allow for efficient publishing of events without having to explicitly manage batches in the application. - The constructor of EventHubProducerClient`and ŧrom_connection_string`method takes the following new keyword arguments for configuration: - buffered_mode`: The flag to enable/disable buffered mode sending. - ѻn_success`: The callback to be called once events have been successfully published. - ѻn_error`: The callback to be called once events have failed to be published. - ѭax_buffer_length`: The total number of events per partition that can be buffered before a flush will be triggered. - ѭax_wait_time`: The amount of time to wait for a batch to be built with events in the buffer before publishing. - A new method EventHubProducerClient.flush`which flushes events in the buffer to be sent immediately. - A new method EventHubProducerClient.get_buffered_event_count`which returns the number of events that are buffered and waiting to be published for a given partition. - A new property EventHubProducerClient.total_buffered_event_count`which returns the total number of events that are currently buffered and waiting to be published, across all partitions. - A new boolean keyword argument ŧlush` to EventHubProducerClient.close`which indicates whether to flush the buffer or not while closing. ## 5.8.0a4 (2022-06-07) ### Features Added - Added support for connection using websocket and http proxy. - Added support for custom endpoint connection over websocket. ## 5.9.0 (2022-05-10) ### Features Added - The classmethod ŧrom_message_content`has been added to EventData`for interoperability with the Schema Registry Avro Encoder library, and takes ċontent`and ċontent_type`as positional parameters. ### Other Changes - Features related to buffered sending of events are still in

beta and will not be included in this release. ## 5.9.0b3 (2022-04-20) ### Features Added - Introduced new method `send_event` to EventHubProducerClient `which allows sending single EventData` or `AmqpAnnotatedMessage`. - Introduced buffered mode sending to EventHubProducerClient `which is intended to allow for efficient publishing of events without having to explicitly manage batches in the application. - The constructor of EventHubProducerClient `and `from_connection_string `method now takes the following new keyword arguments for configuration: - `buffered_mode`: The flag to enable/disable buffered mode sending. - `on_success`: The callback to be called once events have been successfully published. - `on_error`: The callback to be called once events have failed to be published. - `max_buffer_length`: The total number of events per partition that can be buffered before a flush will be triggered. - `max_wait_time`: The amount of time to wait for a batch to be built with events in the buffer before publishing. - Introduced new method EventHubProducerClient.flush `which flushes events in the buffer to be sent immediately. - Introduced new method EventHubProducerClient.get_buffered_event_count `which returns the number of events that are buffered and waiting to be published for a given partition. - Introduced new property EventHubProducerClient.total_buffered_event_count ` which returns the total number of events that are currently buffered and waiting to be published, across all partitions. - Introduced new boolean keyword argument `flush` to EventHubProducerClient.close `which indicates whether to flush the buffer or not while closing. ### Other Changes - Updated EventData `internals for interoperability with the Schema Registry Avro Encoder library. ## 5.9.0b2 (2022-03-09) ### Breaking Changes - `from_message_data` on EventData `has been renamed `from_message_content ` for interoperability with the Schema Registry Avro Encoder library. The `data ` parameter has been renamed to `content`. ## 5.8.0a3 (2022-03-08) ### Other Changes - Improved the performance of async sending and receiving. ## 5.9.0b1 (2022-02-09) - The following features have been temporarily pulled out of async EventHubProducerClient `and EventHubConsumerClient ` which will be added back in future previews as we work towards a stable release: - Passing the following keyword arguments to the constructors and `from_connection_string `methods of the EventHubProducerClient `and EventHubConsumerClient `is not supported: `transport_type`, `http_proxy`, `custom_endpoint_address`, and `connection_verify`. ## 5.8.0a2 (2022-02-09) ### Features Added - Added support for async EventHubProducerClient `and EventHubConsumerClient`. ## 5.8.0a1 (2022-01-13) Version 5.8.0a1 is our first efforts to build an Azure Event Hubs client library based on pure python implemented AMQP stack. ### Breaking changes - The following features have been temporarily pulled out which will be added back in future previews as we work towards a stable release: - Async is not supported. - Passing the following keyword arguments to the constructors and `from_connection_string `methods of the EventHubProducerClient `and

EventHubConsumerClient`is not supported: ŧransport_type`, ħttp_proxy`, ċustom_endpoint_address`, and ċonnection_verify`. ### Other Changes - uAMQP dependency is removed. ## 5.7.0 (2022-01-12) This version and all future versions will require Python 3.6+. Python 2.7 is no longer supported. ### Features Added - Added support for fixed (linear) retry backoff: - Sync/async EventHubProducerClient`and EventHubConsumerClient` constructors and ŧrom_connection_string`take ŧetry_mode`as a keyword argument. ### Bugs Fixed - Fixed a bug that EventHubProducerClient`could be reopened for sending events instead of encountering with ĸeyError`when the client is previously closed (issue #21849). ### Other Changes - Improved token refresh timing to prevent potentially blocking main flow when the token is about to get expired soon. - Updated uAMQP dependency to 1.5.1. ## 5.6.1 (2021-10-06) ### Bugs Fixed - Fixed a bug for checking that àzure.eventhub.amqp.AmqpMessageHeader`and àzure.eventhub.amqp.AmqpMessageProperties`contain specific properties using the ìn`keyword. ### Other Changes - Updated uAMQP dependency to 1.4.3. - Added support for Python 3.10. - Fixed memory leak in win32 socketio and tlsio (issue #19777). - Fixed memory leak in the process of converting AMQPValue into string (issue #19777). ## 5.6.0 (2021-07-07) ### Features Added - Added support for sending AMQP annotated message which allows full access to the AMQP message fields. - Introduced new namespace àzure.eventhub.amqp`. - Added new enum class àzure.eventhub.amqp.AmqpMessageBodyType`to represent the body type of the message which includes: - DATA: The body of message consists of one or more data sections and each section contains opaque binary data. - SEQUENCE: The body of message consists of one or more sequence sections and each section contains an arbitrary number of structured data elements. - VALUE: The body of message consists of one amqp-value section and the section contains a single AMQP value. - Introduced new class àzure.eventhub.amqp.AmqpAnnotatedMessage`for accessing low-level amqp message sections which can be instantiated for sending. - Introduced new classes àzure.eventhub.amqp.AmqpMessageHeader`and àzure.eventhub.amqp.AmqpMessageProperties`for accessing amqp header and properties. - Added new property body_type`on àzure.eventhub.EventData`which returns àzure.eventhub.amqp.AmqpMessageBodyType`. - Added new read-only property ŧaw_amqp_message`on àzure.eventhub.EventData`which returns àzure.eventhub.amqp.AmqpAnnotatedMessage`. ### Fixed - Updated uAMQP dependency to 1.4.1. - Fixed a bug that attributes creation_time, absolute_expiry_time and group_sequence on MessageProperties should be compatible with integer types on Python 2.7. ## 5.5.0 (2021-05-13) **New Features** - Added support for using àzure.core.credentials.AzureNamedKeyCredential`as credential for authenticating producer and consumer clients. **Bug Fixes** - Fixed bug that

custom user agent string should be put in front of the built-in user agent string instead of being appended. - Updated uAMQP dependency to 1.4.0. - Fixed memory leaks in the process of link attach where source and target cython objects are not properly deallocated (#15747). - Improved management operation callback not to parse description value of non AMQP_TYPE_STRING type as string (#18361). **Notes** - Updated azure-core dependency to 1.14.0. ## 5.4.0 (2021-04-07) This version follows from version 5.3.1, rather than 5.4.0b1 so that the preview idempotent producer feature is not included. **New Features** - Added support for using `azure.core.credentials.AzureSasCredential` as credential for authenticating producer and consumer clients. - Updated `list_ownership`, `claim_ownership`, `update_checkpoint`, `list_checkpoints` on sync and async `CheckpointStore` to support taking `**kwargs`. - WARNING: Implementing a custom checkpointstore that does not support taking `**kwargs` in the methods listed previously will result in the following pylint error: W0221: Parameters differ from overridden `_____` method (arguments-differ). - Updated `update_checkpoint` on sync and async PartitionContext` to support taking `**kwargs`. **Bug Fixes** - Updated uAMQP dependency to 1.3.0. - Fixed bug that sending message of large size triggering segmentation fault when the underlying socket connection is lost (#13739, #14543). - Fixed bug in link flow control where link credit and delivery count should be calculated based on per message instead of per transfer frame (#16934). **Notes** - Updated azure-core dependency to 1.13.0. ## 5.4.0b1 (2021-03-09) This version and all future versions will require Python 2.7 or Python 3.6+, Python 3.5 is no longer supported. **New Features** - Added support for idempotent publishing which is supported by the service to endeavor to reduce the number of duplicate events that are published. - EventHubProducerClient` constructor accepts two new parameters for idempotent publishing: - `enable_idempotent_partitions`: A boolean value to tell the EventHubProducerClient` whether to enable idempotency. - `partition_config`: The set of configurations that can be specified to influence publishing behavior specific to the configured Event Hub partition. - Introduced a new method `get_partition_publishing_properties` on EventHubProducerClient` to inspect the information about the state of publishing for a partition. - Introduced a new property `published_sequence_number` on EventData` to get the publishing sequence number assigned to the event at the time it was successfully published. - Introduced a new property `starting_published_sequence_number` on EventDataBatch` to get the publishing sequence number assigned to the first event in the batch at the time the batch was successfully published. - Introduced a new class `azure.eventhub.PartitionPublishingConfiguration` which is a set of configurations that can be specified to influence the behavior when publishing directly to an Event Hub partition. **Notes** - Updated uAMQP dependency to 1.2.15. ## 5.3.1 (2021-03-09) This version will be the last

version to officially support Python 3.5, future versions will require Python 2.7 or Python 3.6+. **Bug fixes** - Sending empty `event_data_batch` will be a no-op now instead of raising error. ## 5.3.0 (2021-02-08) **New Features** - Added a `parse_connection_string` method which parses a connection string into a properties bag, EventHubConnectionStringProperties, containing its component parts. - The constructor and `from_connection_string` method of EventHubConsumerClient` and EventHubProducerClient` now accept two new optional arguments: - `custom_endpoint_address` which allows for specifying a custom endpoint to use when communicating with the Event Hubs service, and is useful when your network does not allow communicating to the standard Event Hubs endpoint. - `connection_verify` which allows for specifying the path to the custom CA_BUNDLE file of the SSL certificate which is used to authenticate the identity of the connection endpoint. **Notes** - Updated uAMQP dependency to 1.2.14. ## 5.2.1 (2021-01-11) **Bug fixes** - Updated `azure.eventhub.extension.__init__.py` to be compatible with pkgutil-style namespace (PR #13210, thanks @pjachowi). - Updated uAMQP dependency to 1.2.13 - Added support for Python 3.9. - Fixed bug that macOS was unable to detect network error (#15473). - Fixed bug that `uamqp.ReceiveClient` and `uamqp.ReceiveClientAsync` receive messages during connection establishment (#15555). - Fixed bug where connection establishment on macOS with Clang 12 triggering unrecognized selector exception (#15567). - Fixed bug in accessing message properties triggering segmentation fault when the underlying C bytes are NULL (#15568). ## 5.2.0 (2020-09-08) **New Features** - Connection strings used with `from_connection_string` methods now supports using the `SharedAccessSignature` key in leiu of `sharedaccesskey` and `sharedaccesskeyname`, taking the string of the properly constructed token as value. ## 5.2.0b1 (2020-07-06) **New Features** - EventHubConsumerClient` constructor accepts two new parameters for the load balancer. - `load_balancing_strategy`, which can be "greedy" or "balanced". With greedy strategy, one execution of load balancing will claim as many partitions as required to balance the load whereas with balanced strategy one execution of load balancing will claim at most 1 partition. - `partition_ownership_expiration_interval`, which allows you to customize the partition ownership expiration for load balancing. A consumer client may lose its owned partitions more often with a smaller expiration interval. But a larger interval may result in idle partitions not being claimed for longer time. - Added enum class `azure.eventhub.LoadBalancingStrategy` for `load_balancing_strategy`. ## 5.1.0 (2020-05-04) **New Features** - EventHubProducerClient.send_batch` accepts either an EventDataBatch` or a finite list of EventData`. #9181 - Added enqueueTime to span links of distributed tracing. #9599 **Bug fixes** - Fixed a bug that turned `azure.eventhub.EventhubConsumerClient` into an exclusive receiver when it has no checkpoint store. #11181 - Updated uAMQP dependency to 1.2.7. -

Fixed bug in setting certificate of tlsio on MacOS. #7201 - Fixed bug that caused segmentation fault in network tracing on MacOS when setting logging_enable`to `True`in EventHubConsumerClient`and EventHubProducerClient`. ## 5.1.0b1 (2020-04-06) **New Features** - Added EventHubConsumerClient.receive_batch()`to receive and process events in batches instead of one by one. #9184 - EventHubConsumerCliuent.receive()` has a new param `max_wait_time`. `on_event`is called every `max_wait_time` when no events are received and `max_wait_time`is not None`or 0. - Param event of PartitionContext.update_checkpoint`is now optional. The last received event is used when param event is not passed in. - EventData.system_properties`has added missing properties when consuming messages from IotHub. #10408 ## 5.0.1 (2020-03-09) **Bug fixes** - Fixed a bug that swallowed errors when receiving events with `azure.eventhub.EventHubConsumerClient`#9660 - Fixed a bug that caused `get_eventhub_properties`, `get_partition_ids`, and `get_partition_properties`to raise an error on Azure Stack #9920 ## 5.0.0 (2020-01-13) **Breaking changes** - EventData`- Removed deprecated property `application_properties`and deprecated method `encode_message()`. - EventHubConsumerClient`- `on_error`would be called when EventHubConsumerClient`failed to claim ownership of partitions. - `on_partition_close`and `on_partition_initialize`would be called in the case of exceptions raised by `on_event`callback. - EventHubConsumerClient`would close and re-open the internal partition receiver in this case. - Default starting position from where EventHubConsumerClient`should resume receiving after recovering from an error has been re-prioritized. - If there is checkpoint, it will resume from the checkpoint. - If there is no checkpoint but `starting_position` is provided, it will resume from `starting_posititon`. - If there is no checkpoint or `starting_position`, it will resume from the latest position. - PartitionContext`- `update_checkpoint`would do in-memory checkpoint instead of doing nothing when checkpoint store is not explicitly provided. - The in-memory checkpoints would be used for EventHubConsumerClient`receiving recovering. - `get_partition_ids`, `get_partition_properties`, `get_eventhub_properties`would raise error in the case of service returning an error status code. - `AuthenticationError`would be raised when service returning error code 401. - `ConnectError`would be raised when service returning error code 404. - EventHubError`would be raised when service returning other error codes. ## 5.0.0b6 (2019-12-03) **Breaking changes** - All exceptions should now be imported from `azure.eventhub.exceptions`. - Introduced separate EventHubSharedKeyCredential`objects for synchronous and asynchronous operations. For async, import the credentials object from the `azure.eventhub.aio`namespace. - EventData`- Renamed property `application_properties`to `properties`. - EventData`no longer has attribute last_enqueued_event_properties`- use this on PartitionContext`instead. - EvenDataBatch`- EventDataBatch.try_add`has been renamed to

EventDataBatch.add`. - Renamed property `size`to `size_in_bytes`. - Renamed attribute `max_size`to `max_size_in_bytes`. - EventHubConsumerClient`and EventHubProducerClient`- Renamed method `get_properties`to `get_eventhub_properties`. - Renamed parameters in constructor: `host`to `fully_qualified_namespace`, `event_hub_path`to `eventhub_name`. - Renamed parameters in `get_partition_properties`: `partition`to `partition_id`. - Renamed parameter `consumer_group_name`to `consumer_group`and moved that parameter from `receive`method to the constructor of EventHubConsumerClient`. - Renamed parameter `initial_event_position`to `starting_position`on the `receive`method of EventHubConsumerClient`. - Renamed parameter `event_hub_path`to `eventhub_name`in constructor and `from_connection_string`method of the client object. - EventHubProducerClient.send`has been renamed to `send_batch`which will only accept EventDataBatch`object as input. - EventHubProducerClient.create_batch`now also takes the `partition_id`and `partition_key`as optional parameters (which are no longer specified at send). - Renamed module PartitionManager`to `CheckpointStore`. - Receive event callback parameter has been renamed to `on_event`and now operates on a single event rather than a list of events. - Removed class EventPostition`. - The `starting_position`parameter of the `receive`method accepts offset(`str), sequence number(`int), datetime (`datetime.datetime) or `dict`of these types. - The `starting_position_inclusive`parameter of the `receive`method accepts `bool`or `dict`indicating whether the given event position is inclusive or not. - PartitionContext`no longer has attribute `owner_id`. - PartitionContext`now has attribute `last_enqueued_event_properties`which is populated if `track_last_enqueued_event_properties`is set to `True`in the `receive`method. **New features** - Added new parameter `idle_timeout`in construct and `from_connection_string`to EventHubConsumerClient`and EventHubProducerClient`after which the underlying connection will close if there is no further activity. ## 5.0.0b5 (2019-11-04) **Breaking changes** - EventHubClient`, EventHubConsumer`and EventHubProducer`has been removed. Use EventHubProducerClient`and EventHubConsumerClient` instead. - Construction of both objects is the same as it was for the previous client. - Introduced EventHubProducerClient`as substitution forEventHubProducer`. - EventHubProducerClient`supports sending events to different partitions. - Introduced EventHubConsumerClient`as substitution for EventHubConsumer`. - EventHubConsumerClient`supports receiving events from single/all partitions. - There are no longer methods which directly return EventData`, all receiving is done via callback method: `on_events`. - EventHubConsumerClient`has taken on the responsibility of EventProcessor`. - EventHubConsumerClient`now accepts PartitionManager`to do load-balancing and checkpoint. - Replaced PartitionProcessorby four independent callback methods accepted by the `receive`method on EventHubConsumerClient`. - `on_events(partition_context, events)`called when

events are received. - `on_error(partition_context, exception`called when errors occur. - `on_partition_initialize(partition_context)`called when a partition consumer is opened. - `on_partition_close(partition_context, reason)`called when a partition consumer is closed. - Some modules and classes that were importable from several different places have been removed: - `azure.eventhub.common`has been removed. Import from `azure.eventhub` instead. - `azure.eventhub.client_abstract`has been removed. Use `azure.eventhub.EventHubProducerClient`or `azure.eventhub.EventHubConsumerClient`instead. - `azure.eventhub.client`has been removed. Use `azure.eventhub.EventHubProducerClient`or `azure.eventhub.EventHubConsumerClient`instead. - `azure.eventhub.producer` has been removed. Use `azure.eventhub.EventHubProducerClient`instead. - `azure.eventhub.consumer`has been removed. Use `azure.eventhub.EventHubConsumerClient`instead. - `azure.eventhub.aio.client_async`has been removed. Use `azure.eventhub.aio.EventHubProducerClient`or `azure.eventhub.aio.EventHubConsumerClient`instead. - `azure.eventhub.aio.producer_async`has been removed. Use `azure.eventhub.aio.EventHubProducerClient`instead. - `azure.eventhub.aio.consumer_async`has been removed. Use `azure.eventhub.aio.EventHubConsumerClient`instead. - `azure.eventhub.aio.event_processor.event_processor`has been removed. Use `azure.eventhub.aio.EventHubConsumerClient`instead. - `azure.eventhub.aio.event_processor.partition_processor`has been removed. Use callback methods instead. - `azure.eventhub.aio.event_processor.partition_manager`has been removed. Import from `azure.eventhub.aio`instead. - `azure.eventhub.aio.event_processor.partition_context`has been removed. Import from `azure.eventhub.aio`instead. - `azure.eventhub.aio.event_processor.sample_partition_manager`has been removed. **Bug fixes** - Fixed bug in user-agent string not being parsed. ## 5.0.0b4 (2019-10-08) **New features** - Added support for tracing (issue #7153). - Added the capability of tracking last enqueued event properties of the partition to EventHubConsumer`. - Added new boolean type parameter`track_last_enqueued_event_properties`in method EventHubClient.create_consumer()`. - Added new property `last_enqueued_event_properties`of EventHubConsumer`which contains sequence_number, offset, enqueued_time and retrieval_time information. - By default the capability is disabled as it will cost extra bandwidth for transferring more information if turned on. **Breaking changes** - Removed support for IoT Hub direct connection. - [EventHubs compatible connection string](https://docs.microsoft.com/azure/iot-hub/iot-hub-devguide-messages-read-builtin) of an IotHub can be used to create EventHubClient` and read properties or events from an IoT Hub. - Removed support for

sending EventData to IoT Hub. - Removed parameter `exception`in method `close()`of EventHubConsumer`and EventHubProcuer`. - Updated uAMQP dependency to 1.2.3. ## 5.0.0b3 (2019-09-10) **New features** - Added support for automatic load balancing among multiple EventProcessor`. - Added BlobPartitionManager`which implements PartitionManager`. - Azure Blob Storage is applied for storing data used by EventProcessor`. - Packaged separately as a plug-in to EventProcessor`. - For details, please refer to [Azure Blob Storage Partition Manager](https://github.com/Azure/azure-sdk-for-python/tree/main/sdk/eventhub/azure-eventhub-checkpointstoreblob-aio). - Added property `system_properties`on EventData`. **Breaking changes** - Removed constructor method of PartitionProcessor`. For initialization please implement the method `initialize`. - Replaced `CheckpointManager`by PartitionContext`. - PartitionContext`has partition context information and method `update_checkpoint`. - Updated all methods of PartitionProcessor`to include PartitionContext`as part of the arguments. - Updated accessibility of class members in EventHub/EventHubConsumer/EventHubProducerto be private. - Moved `azure.eventhub.eventprocessor`under `aio`package, which now becomes `azure.eventhub.aio.eventprocessor`. ## 5.0.0b2 (2019-08-06) **New features** - Added method `create_batch`on the EventHubProducer`to create an EventDataBatch`that can then be used to add events until the maximum size is reached. - This batch object can then be used in the `send()` method to send all the added events to Event Hubs. - This allows publishers to build batches without the possibility of encountering the error around the message size exceeding the supported limit when sending events. - It also allows publishers with bandwidth concerns to control the size of each batch published. - Added new configuration parameters for exponential delay between retry operations. - `retry_total`: The total number of attempts to redo the failed operation. - backoff_factor`: The delay time factor. - backoff_max`: The maximum delay time in total. - Added support for context manager on EventHubClient`. - Added new error type `OperationTimeoutError`for send operation. - Introduced a new class EventProcessor`which replaces the older concept of [Event Processor Host](https://docs.microsoft.com/azure/event-hubs/event-hubs-event-processor-host). This early preview is intended to allow users to test the new design using a single instance of EventProcessor`. The ability to checkpoints to a durable store will be added in future updates. - EventProcessor`: EventProcessor creates and runs consumers for all partitions of the eventhub. - PartitionManager`: PartitionManager defines the interface for getting/claiming ownerships of partitions and updating checkpoints. - PartitionProcessor`: PartitionProcessor defines the interface for processing events. - `CheckpointManager`: CheckpointManager takes responsibility for updating checkpoints during events processing. **Breaking changes** - EventProcessorHost`was replaced by EventProcessor`, please read the new features for details. - Replaced `max_retries`configuration parameter of the EventHubClient with `retry_total`. ## 5.0.0b1 (2019-06-25)

Version 5.0.0b1 is a preview of our efforts to create a client library that is user friendly and idiomatic to the Python ecosystem. The reasons for most of the changes in this update can be found in the [Azure SDK Design Guidelines for Python] (https://azuresdkspecs.z5.web.core.windows.net/PythonSpec.html). For more information, please visit https://aka.ms/azure-sdk-preview1-python. **New features** - Added new configuration parameters for creating EventHubClient. - ȍcredentialȅ The credential object used for authentication which implements ȚokenCredential`interface of getting tokens. - ȶtransport_typeȅ The type of transport protocol that will be used for communicating with the Event Hubs service. - ȷmax_retriesȅ The max number of attempts to redo the failed operation when an error happened. - for detailed information about the configuration parameters, please read the reference documentation. - Added new methods ȝget_partition_properties`and ȝget_partition_ids`to EventHubClient. - Added support for http proxy. - Added support for authentication using azure-identity credential. - Added support for transport using AMQP over WebSocket. **Breaking changes** - New error hierarchy - ȁzure.error.EventHubError`- ȁzure.error.ConnectionLostError`- ȁzure.error.ConnectError`- ȁzure.error.AuthenticationError`- ȁzure.error.EventDataError`- ȁzure.error.EventDataSendError`- Renamed Sender/Receiver to EventHubProducer/EventHubConsumer. - Renamed ȁdd_sender`to ȍreate_producer`and ȁdd_receiver`to ȍreate_consumer`in EventHubClient. - EventHubConsumer is now iterable. - Rename class azure.eventhub.Offset to azure.eventhub.EventPosition. - Rename method ȝget_eventhub_info`to ȝget_properties`of EventHubClient. - Reorganized connection management, EventHubClient is no longer responsible for opening/closing EventHubProducer/EventHubConsumer. - Each EventHubProducer/EventHubConsumer is responsible for its own connection management. - Added support for context manager on EventHubProducer and EventHubConsumer. - Reorganized async APIs into "azure.eventhub.aio" namespace and rename to drop the "_async" suffix. - Updated uAMQP dependency to 1.2. ## 1.3.1 (2019-02-28) **BugFixes** - Fixed bug where datetime offset filter was using a local timestamp rather than UTC. - Fixed stackoverflow error in continuous connection reconnect attempts. ## 1.3.0 (2019-01-29) **BugFixes** - Added support for auto reconnect on token expiration and other auth errors (issue #89). **Features** - Added ability to create ServiceBusClient from an existing SAS auth token, including providing a function to auto-renew that token on expiry. - Added support for storing a custom EPH context value in checkpoint (PR #84, thanks @konstantinmiller) ## 1.2.0 (2018-11-29) - Support for Python 2.7 in azure.eventhub module (azure.eventprocessorhost will not support Python 2.7). - Parse EventData.enqueued_time as a UTC timestamp (issue #72, thanks @vjrantal) ## 1.1.1 (2018-10-03) - Fixed bug in Azure namespace package. ## 1.1.0 (2018-09-21) - Changes to ȂzureStorageCheckpointLeaseManager`

parameters to support other connection options (issue #61): - The `storage_account_name`, `storage_account_key`and `lease_container_name` arguments are now optional keyword arguments. - Added a `sas_token` argument that must be specified with `storage_account_name`in place of `storage_account_key`. - Added an `endpoint_suffix`argument to support storage endpoints in National Clouds. - Added a `connection_string`argument that, if specified, overrides all other endpoint arguments. - The `lease_container_name`argument now defaults to "eph-leases"`if not specified. - Fix for clients failing to start if run called multipled times (issue #64). - Added convenience methods `body_as_str`and `body_as_json`to EventData object for easier processing of message data. ## 1.0.0 (2018-08-22) - API stable. - Renamed internal `_async`module to `async_ops`for docs generation. - Added optional `auth_timeout`parameter to EventHubClient`and EventHubClientAsync`to configure how long to allow for token negotiation to complete. Default is 60 seconds. - Added optional `send_timeout`parameter to EventHubClient.add_sender`and EventHubClientAsync.add_async_sender` to determine the timeout for Events to be successfully sent. Default value is 60 seconds. - Reformatted logging for performance. ## 0.2.0 (2018-08-06) - Stability improvements for EPH. - Updated uAMQP version. - Added new configuration options for Sender and Receiver; `keep_alive`and `auto_reconnect`. These flags have been added to the following: - EventHubClient.add_receiver`- EventHubClient.add_sender`- EventHubClientAsync.add_async_receiver`- EventHubClientAsync.add_async_sender`- EPHOptions.keey_alive_interval`- EPHOptions.auto_reconnect_on_error`## 0.2.0rc2 (2018-07-29) - **Breaking change** EventData.offset`will now return an object of type `~uamqp.common.Offset`rather than str. The original string value can be retrieved from `~uamqp.common.Offset.value`. - Each sender/receiver will now run in its own independent connection. - Updated uAMQP dependency to 0.2.0 - Fixed issue with IoTHub clients not being able to retrieve partition information. - Added support for HTTP proxy settings to both EventHubClient and EPH. - Added error handling policy to automatically reconnect on retryable error. - Added keep-alive thread for maintaining an unused connection. ## 0.2.0rc1 (2018-07-06) - **Breaking change** Restructured library to support Python 3.7. Submodule `async`has been renamed and all classes from this module can now be imported from azure.eventhub directly. - **Breaking change** Removed optional `callback`argument from Receiver.receive`and `AsyncReceiver.receive`. - **Breaking change** EventData.properties`has been renamed to EventData.application_properties`. This removes the potential for messages to be processed via callback for not yet returned in the batch. - Updated uAMQP dependency to v0.1.0 - Added support for constructing IoTHub connections. - Fixed memory leak in receive operations. - Dropped Python 2.7 wheel support. ## 0.2.0b2 (2018-05-29) - Added `namespace_suffix`to EventHubConfig() to support national

clouds. - Added `device_id`attribute to EventData to support IoT Hub use cases. - Added message header to workaround service bug for PartitionKey support. - Updated uAMQP dependency to vRC1. ## 0.2.0b1 (2018-04-20) - Updated uAMQP to latest version. - Further testing and minor bug fixes. ## 0.2.0a2 (2018-04-02) - Updated uAQMP dependency.

Package Info

Project URL

https://github.com/Azure/azure-sdk-for-python/tree/main/sdk/eventhub/azure-eventhub

Package Download URL

https://files.pythonhosted.org/packages/20/bf/96eec5aa57cb08f1e84e1dfa3888e52dbba53e218596cdab5b61d795a1ae/azure_eventhub-5.15.1.tar.gz

Dependency Path

azure-eventhub

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None

azure-identity 1.25.1

pip+azure-identity$1.25.1

Direct

Description

Microsoft Azure Identity Library for Python

Package Info

Project URL

https://pypi.org/project/azure-identity/

Package Download URL

https://files.pythonhosted.org/packages/06/8d/1a6c41c28a37eab26dc85ab6c86992c700cd3f4a597d9ed174b0e9c69489/azure_identity-1.25.1.tar.gz

Dependency Path

azure-identity

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None

azure-mgmt-security 7.0.0

pip+azure-mgmt-security$7.0.0

Direct

Description

Microsoft Azure Security Center Management Client Library for Python

Package Info

Project URL

https://github.com/Azure/azure-sdk-for-python

Package Download URL

https://files.pythonhosted.org/packages/3d/90/13186657355452bdce44f27db6b194b99f78f8c185301b47624fff6d9531/azure-mgmt-security-7.0.0.tar.gz

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azure-mgmt-security

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cattrs 25.3.0

pip+cattrs$25.3.0

Direct

Description

Composable complex class support for attrs and dataclasses.

Package Info

Project URL

https://pypi.org/project/cattrs/

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Dependency Path

cattrs

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cryptography 50.0.0

pip+cryptography$50.0.0

Direct

Description

pyca/cryptography ================= .. image:: https://img.shields.io/pypi/v/cryptography.svg :target: https://pypi.org/project/cryptography/ :alt: Latest Version .. image:: https://readthedocs.org/projects/cryptography/badge/?version=latest :target: https://cryptography.io :alt: Latest Docs .. image:: https://github.com/pyca/cryptography/workflows/CI/badge.svg?branch=main :target: https://github.com/pyca/cryptography/actions?query=workflow%3ACI+branch%3Amain `cryptography`_ is a package which provides cryptographic recipes and primitives to Python developers. Our goal is for it to be your "cryptographic standard library". It supports Python 3.7+ and PyPy3 7.3.11+. `cryptography`_ includes both high level recipes and low level interfaces to common cryptographic algorithms such as symmetric ciphers, message digests, and key derivation functions. For example, to encrypt something with `cryptography`_'s high level symmetric encryption recipe: .. code-block:: pycon >>> from cryptography.fernet import Fernet >>> # Put this somewhere safe! >>> key = Fernet.generate_key() >>> f = Fernet(key) >>> token = f.encrypt(b"A really secret message. Not for prying eyes.") >>> token b'...' >>> f.decrypt(token) b'A really secret message. Not for prying eyes.' You can find more information in the `documentation`_. You can install `cryptography`_ with: .. code-block:: console $ pip install cryptography For full details see the installation documentation_. Discussion ~~~~~~~~~~ If you run into bugs, you can file them in our `issue tracker`_. We maintain a `cryptography-dev`_ mailing list for development discussion. You can also join `#pyca`_ on `irc.libera.chat`_ to ask questions or get involved. Security ~~~~~~~~ Need to report a security issue? Please consult our `security reporting`_ documentation. .. _`documentation`: https://cryptography.io/ .. _`the installation documentation`: https://cryptography.io/en/latest/installation/ .. _`issue tracker`: https://github.com/pyca/cryptography/issues .. _`cryptography-dev`: https://mail.python.org/mailman/listinfo/cryptography-dev .. _`security reporting`: https://cryptography.io/en/latest/security/

Package Info

Project URL

https://pypi.org/project/cryptography/

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https://files.pythonhosted.org/packages/de/41/6cbdcf9142d00fe82836fbb51e503e58088575cf7a0fe1dbff6695bf0840/cryptography-50.0.0.tar.gz

Dependency Path

azure-identity > cryptography, azure-identity > msal > cryptography, azure-identity > msal > pyjwt > cryptography, azure-identity > msal-extensions > msal > cryptography, azure-identity > msal-extensions > msal > pyjwt > cryptography, cryptography, pyjwt > cryptography

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grpcio 1.80.0

pip+grpcio$1.80.0

Direct

Description

HTTP/2-based RPC framework

Package Info

Project URL

https://pypi.org/project/grpcio/

Package Download URL

https://files.pythonhosted.org/packages/b7/48/af6173dbca4454f463 7a4678b67f52ca7e0c1ed7d5894d89d434fecede05/grpcio-1.80.0.tar.gz

Dependency Path

grpcio, opentelemetry-exporter-otlp-proto-grpc > grpcio, solnlib > grpcio, solnlib > opentelemetry-exporter-otlp-proto-grpc > grpcio, splunktaucclib > solnlib > grpcio, splunktaucclib > solnlib > opentelemetry-exporter-otlp-proto-grpc > grpcio

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opentelemetry-api 1.45.1

pip+opentelemetry-api$1.45.1

Direct

Description

OpenTelemetry Python API

Package Info

Project URL

https://pypi.org/project/opentelemetry-api/

Package Download URL

https://files.pythonhosted.org/packages/2e/02/6e0ae9cc61bd3169d401077b507b3ebc344745171e1051ab430be012dcd9/opentelemetry_api-1.45.1.tar.gz

Dependency Path

opentelemetry-api, opentelemetry-exporter-otlp-proto-grpc > opentelemetry-api, opentelemetry-exporter-otlp-proto-grpc > opentelemetry-exporter-otlp-common > opentelemetry-sdk > opentelemetry-semantic-conventions > opentelemetry-api, opentelemetry-exporter-otlp-proto-grpc > opentelemetry-sdk > opentelemetry-semantic-conventions > opentelemetry-api, opentelemetry-sdk > opentelemetry-api, opentelemetry-sdk > opentelemetry-semantic-conventions > opentelemetry-api, solnlib > opentelemetry-api, solnlib > opentelemetry-sdk > opentelemetry-semantic-conventions > opentelemetry-api, splunktaucclib > solnlib > opentelemetry-api, splunktaucclib > solnlib > opentelemetry-sdk > opentelemetry-semantic-conventions > opentelemetry-api

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None

opentelemetry-exporter-otlp-proto-grpc 1.45.1

pip+opentelemetry-exporter-otlp-proto-grpc$1.45.1

Direct

Description

OpenTelemetry Collector Protobuf over gRPC Exporter

Package Info

Project URL

https://pypi.org/project/opentelemetry-exporter-otlp-proto-grpc/

Package Download URL

https://files.pythonhosted.org/packages/d6/00/a82af0be959dc58495740b169c6669a86e0811f6cd353a01eda34d255db3/opentelemetry_exporter_otlp_proto_grpc-1.45.1.tar.gz

Dependency Path

opentelemetry-exporter-otlp-proto-grpc, solnlib > opentelemetry-exporter-otlp-proto-grpc, splunktaucclib > solnlib > opentelemetry-exporter-otlp-proto-grpc

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None

opentelemetry-sdk 1.45.1

pip+opentelemetry-sdk$1.45.1

Direct

Description

OpenTelemetry Python SDK

Package Info

Project URL

https://pypi.org/project/opentelemetry-sdk/

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https://files.pythonhosted.org/packages/a1/79/7392e21a1c8f0c61d90b223e31c7e48cb9d452e91a6b820ad24cca5f23c4/opentelemetry_sdk-1.45.1.tar.gz

Dependency Path

opentelemetry-exporter-otlp-proto-grpc > opentelemetry-exporter-otlp-common > opentelemetry-sdk, opentelemetry-exporter-otlp-proto-grpc > opentelemetry-sdk, opentelemetry-sdk, solnlib > opentelemetry-exporter-otlp-proto-grpc > opentelemetry-exporter-otlp-common > opentelemetry-sdk, solnlib > opentelemetry-exporter-otlp-proto-grpc > opentelemetry-sdk, solnlib > opentelemetry-sdk, splunktaucclib > solnlib > opentelemetry-exporter-otlp-proto-grpc > opentelemetry-exporter-otlp-common >

opentelemetry-sdk, splunktaucclib > solnlib > opentelemetry-exporter-otlp-proto-grpc > opentelemetry-sdk, splunktaucclib > solnlib > opentelemetry-sdk

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protobuf 6.33.6

pip+protobuf$6.33.6

Direct

Description

Protocol Buffers are Google's data interchange format

Package Info

Project URL

https://developers.google.com/protocol-buffers/

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https://files.pythonhosted.org/packages/66/70/e908e9c5e52ef7c3a6c7902c9dfbb34c7e29c25d2f81ade3856445fd5c94/protobuf-6.33.6.tar.gz

Dependency Path

opentelemetry-exporter-otlp-proto-grpc > googleapis-common-protos > protobuf, opentelemetry-exporter-otlp-proto-grpc > opentelemetry-exporter-otlp-proto-common > opentelemetry-proto > protobuf, opentelemetry-exporter-otlp-proto-grpc > opentelemetry-proto > protobuf, protobuf, solnlib > opentelemetry-exporter-otlp-proto-grpc > googleapis-common-protos > protobuf, solnlib > opentelemetry-exporter-otlp-proto-grpc > opentelemetry-exporter-otlp-proto-common > opentelemetry-proto > protobuf, solnlib > opentelemetry-exporter-otlp-proto-grpc > opentelemetry-proto > protobuf, splunktaucclib > solnlib > opentelemetry-exporter-otlp-proto-grpc > googleapis-common-protos > protobuf, splunktaucclib > solnlib > opentelemetry-exporter-otlp-proto-grpc > opentelemetry-exporter-otlp-proto-common > opentelemetry-proto > protobuf, splunktaucclib > solnlib > opentelemetry-exporter-otlp-proto-grpc > opentelemetry-proto > protobuf

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PyJWT 2.15.1

pip+pyjwt$2.15.1

Direct

Description

JSON Web Token implementation in Python

Package Info

Project URL

https://pypi.org/project/PyJWT/

Package Download URL

https://files.pythonhosted.org/packages/43/ea/5194e52748b0da83d71e082d75496eaec6e58f419f5e184786ded517e6a9/pyjwt-2.15.1.tar.gz

Dependency Path

azure-identity > msal > pyjwt, azure-identity > msal-extensions > msal > pyjwt, pyjwt

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None

requests 2.32.5

pip+requests$2.32.5

Direct

Description

Python HTTP for Humans.

Package Info

Project URL

https://pypi.org/project/requests/

Package Download URL

https://files.pythonhosted.org/packages/c9/74/b3ff8e6c8446842c3f5c837e9c3dfcfe2018ea6ecef224c710c85ef728f4/requests-2.32.5.tar.gz

Dependency Path

ssh://git@github.com/splunk/splunksdc.git > requests, azure-core > requests, azure-eventhub > azure-core > requests, azure-identity > azure-core > requests, azure-identity > msal > requests, azure-identity > msal-extensions > msal > requests, azure-mgmt-security > azure-mgmt-core > azure-core > requests, requests, splunktalib > requests

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None

solnlib 8.1.1

pip+solnlib$8.1.1

Direct

Description

The Splunk Software Development Kit for Splunk Solutions

Package Info

Project URL

https://github.com/splunk/addonfactory-solutions-library-python

Package Download URL

https://files.pythonhosted.org/packages/49/1d/214341ec80b199af549db0a1fda4a3dfa1b72f5a6557ee8a6f9f65ed8c89/solnlib-8.1.1.tar.gz

Dependency Path

solnlib, splunktaucclib > solnlib

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None

splunktalib 3.0.6

pip+splunktalib$3.0.6

Direct

Description

Supporting library for Splunk Add-ons

Package Info

Project URL

https://github.com/splunk/addonfactory-ta-library-python

Package Download URL

https://files.pythonhosted.org/packages/fa/e6/c2010c0b1b29b90d83b1a4eb8be59a9773f9fd316724024411c34555b5cc/splunktalib-3.0.6.tar.gz

Dependency Path

splunktalib

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None

splunktaucclib 8.2.0

pip+splunktaucclib$8.2.0

Direct

Description

None

Package Info

Project URL

https://pypi.org/project/splunktaucclib/

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https://files.pythonhosted.org/packages/a1/c5/7dbb204b45a8c5dbb999119fbe64ae643e9fa22be8f4f21f63dbc5345862/splunktaucclib-8.2.0.tar.gz

Dependency Path

splunktaucclib

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None

websocket-client 1.9.0

pip+websocket-client$1.9.0

Direct

Description

WebSocket client for Python with low level API options

Package Info

Project URL

https://github.com/websocket-client/websocket-client

Package Download URL

https://files.pythonhosted.org/packages/2c/41/aa4bf9664e4cda14c3b39865b12251e8e7d239f4cd0e3cc1b6c2ccde25c1/websocket_client-1.9.0.tar.gz

Dependency Path

websocket-client

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None

attrs 25.4.0

pip+attrs$25.4.0

Transitive

Description

Classes Without Boilerplate

Package Info

Project URL

https://pypi.org/project/attrs/

Package Download URL

https://files.pythonhosted.org/packages/6b/5c/685e6633917e101e5dcb62b9dd76946cbb57c26e133bae9e0cd36033c0a9/attrs-25.4.0.tar.gz

Dependency Path

cattrs > attrs

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None

azure-common 1.1.28

pip+azure-common$1.1.28

Transitive

Description

Microsoft Azure Client Library for Python (Common)

Package Info

Project URL

https://github.com/Azure/azure-sdk-for-python

Package Download URL

https://files.pythonhosted.org/packages/3e/71/f6f71a276e2e69264a97ad39ef850dca0a04fce67b12570730cb38d0ccac/azure-common-1.1.28.zip

Dependency Path

azure-mgmt-security > azure-common

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None

azure-mgmt-core 1.6.0

pip+azure-mgmt-core$1.6.0

Transitive

Description

Microsoft Azure Management Core Library for Python

Package Info

Project URL

https://github.com/Azure/azure-sdk-for-python/tree/main/sdk/core/azure-mgmt-core

Package Download URL

https://files.pythonhosted.org/packages/3e/99/fa9e7551313d8c7099c89ebf3b03cd31beb12e1b498d575aa19bb59a5d04/azure_mgmt_core-1.6.0.tar.gz

Dependency Path

azure-mgmt-security > azure-mgmt-core

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None

certifi 2026.10.23

pip+certifi$2026.10.23

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Description

Python package for providing Mozilla's CA Bundle.

Package Info

Project URL

https://github.com/certifi/python-certifi

Package Download URL

https://files.pythonhosted.org/packages/fd/11/b524cbd9bbdaca58608e4cf4053fd463417549e1959fa8d3aa18319f9555/certifi-2026.10.23.tar.gz

Dependency Path

ssh://git@github.com/splunk/splunksdc.git > requests > certifi, azure-core > requests > certifi, azure-eventhub > azure-core > requests > certifi, azure-identity > azure-core > requests > certifi, azure-identity > msal > requests > certifi, azure-identity > msal-extensions > msal > requests > certifi, azure-mgmt-security > azure-mgmt-core > azure-core > requests > certifi, requests > certifi, splunktalib > requests > certifi

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ca-bundle.crt -- Bundle of CA Root Certificates

This is a bundle of X.509 certificates of public Certificate Authorities
(CA). These were automatically extracted from Mozilla's root certificates
file (certdata.txt). This file can be found in the mozilla source tree:
https://hg.mozilla.org/mozilla-central/file/tip/security/nss/lib/ckfw/builtins/certdata.txt
It contains the certificates in PEM format and therefore
can be directly used with curl / libcurl / php_curl, or with

an Apache+mod_ssl webserver for SSL client authentication.
Just configure this file as the SSLCACertificateFile.#

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@(#) $RCSfile: certdata.txt,v $ $Revision: 1.80 $ $Date: 2011/11/03 15:11:58 $

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None

cffi 2.0.0

pip+cffi$2.0.0

Transitive

Description

Foreign Function Interface for Python calling C code.

Package Info

Project URL

https://pypi.org/project/cffi/

Package Download URL

https://files.pythonhosted.org/packages/eb/56/b1ba7935a17738ae8453301356628e8147c79dbb825bcbc73dc7401f9846/cffi-2.0.0.tar.gz

Dependency Path

azure-identity > cryptography > cffi, azure-identity > msal > cryptography > cffi, azure-identity > msal > pyjwt > cryptography > cffi, azure-identity > msal-

extensions > msal > cryptography > cffi, azure-identity > msal-extensions > msal > pyjwt > cryptography > cffi, cryptography > cffi, pyjwt > cryptography > cffi

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None

charset-normalizer 3.3.2

pip+charset-normalizer$3.3.2

Transitive

Description

The Real First Universal Charset Detector. Open, modern and actively maintained alternative to Chardet.

Package Info

Project URL

https://pypi.org/project/charset-normalizer/

Package Download URL

https://files.pythonhosted.org/packages/63/09/c1bc53dab74b1816a00d8d030de5bf98f724c52c1635e07681d312f20be8/charset-normalizer-3.3.2.tar.gz

Dependency Path

ssh://git@github.com/splunk/splunksdc.git > requests > charset-normalizer, azure-core > requests > charset-normalizer, azure-eventhub > azure-core > requests > charset-normalizer, azure-identity > azure-core > requests > charset-normalizer, azure-identity > msal > requests > charset-normalizer, azure-identity > msal-extensions > msal > requests > charset-normalizer, azure-mgmt-security > azure-mgmt-core > azure-core > requests > charset-normalizer, requests > charset-normalizer, splunktalib > requests > charset-normalizer

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None

defusedxml 0.7.1

pip+defusedxml$0.7.1

Transitive

Description

==========
defusedxml -- defusing XML bombs and other exploits
========== .. image:: https://img.shields.io/pypi/v/defusedxml.svg :target: https://pypi.org/project/defusedxml/ :alt: Latest Version .. image:: https://img.shields.io/pypi/pyversions/defusedxml.svg :target: https://pypi.org/project/defusedxml/ :alt: Supported Python versions .. image:: https://travis-ci.org/tiran/defusedxml.svg?branch=master :target: https://travis-ci.org/tiran/defusedxml :alt: Travis CI .. image::

https://codecov.io/github/tiran/defusedxml/coverage.svg?branch=master :target: https://codecov.io/github/tiran/defusedxml?branch=master :alt: codecov .. image:: https://img.shields.io/pypi/dm/defusedxml.svg :target: https://pypistats.org/packages/defusedxml :alt: PyPI downloads .. image:: https://img.shields.io/badge/code%20style-black-000000.svg :target: https://github.com/psf/black :alt: Code style: black .. "It's just XML, what could probably go wrong?" Christian Heimes <christian@python.org> Synopsis ======== The results of an attack on a vulnerable XML library can be fairly dramatic. With just a few hundred **Bytes** of XML data an attacker can occupy several **Gigabytes** of memory within **seconds**. An attacker can also keep CPUs busy for a long time with a small to medium size request. Under some circumstances it is even possible to access local files on your server, to circumvent a firewall, or to abuse services to rebound attacks to third parties. The attacks use and abuse less common features of XML and its parsers. The majority of developers are unacquainted with features such as processing instructions and entity expansions that XML inherited from SGML. At best they know about `<!DOCTYPE>`from experience with HTML but they are not aware that a document type definition (DTD) can generate an HTTP request or load a file from the file system. None of the issues is new. They have been known for a long time. Billion laughs was first reported in 2003. Nevertheless some XML libraries and applications are still vulnerable and even heavy users of XML are surprised by these features. It's hard to say whom to blame for the situation. It's too short sighted to shift all blame on XML parsers and XML libraries for using insecure default settings. After all they properly implement XML specifications. Application developers must not rely that a library is always configured for security and potential harmful data by default. .. contents:: Table of Contents :depth: 2 Attack vectors ============== billion laughs / exponential entity expansion ---------- The Billion Laughs`_ attack -- also known as exponential entity expansion -- uses multiple levels of nested entities. The original example uses 9 levels of 10 expansions in each level to expand the string `lol`to a string of 3 * 10 :sup:`9`bytes, hence the name "billion laughs". The resulting string occupies 3 GB (2.79 GiB) of memory; intermediate strings require additional memory. Because most parsers don't cache the intermediate step for every expansion it is repeated over and over again. It increases the CPU load even more. An XML document of just a few hundred bytes can disrupt all services on a machine within seconds. Example XML:: <!DOCTYPE xmlbomb [<!ENTITY a "1234567890" > <!ENTITY b "&a;&a;&a;&a;&a;&a;&a;&a;"> <!ENTITY c "&b;&b;&b;&b;&b;&b;&b;&b;"> <!ENTITY d "&c;&c;&c;&c;&c;&c;&c;&c;">]> <bomb>&d;</bomb> quadratic blowup entity expansion ---------- A quadratic blowup attack is similar to a Billion Laughs`_ attack; it abuses entity expansion, too. Instead of nested entities it repeats one large entity with a couple of thousand chars over and over again. The attack isn't as efficient as the exponential case but

it avoids triggering countermeasures of parsers against heavily nested entities. Some parsers limit the depth and breadth of a single entity but not the total amount of expanded text throughout an entire XML document. A medium-sized XML document with a couple of hundred kilobytes can require a couple of hundred MB to several GB of memory. When the attack is combined with some level of nested expansion an attacker is able to achieve a higher ratio of success. :: <!DOCTYPE bomb [<!ENTITY a "xxxxxxx... a couple of ten thousand chars">]> <bomb>&a;&a;&a;... repeat</bomb> external entity expansion (remote) ---------- Entity declarations can contain more than just text for replacement. They can also point to external resources by public identifiers or system identifiers. System identifiers are standard URIs. When the URI is a URL (e.g. a ħttp://`locator) some parsers download the resource from the remote location and embed them into the XML document verbatim. Simple example of a parsed external entity:: <!DOCTYPE external [<!ENTITY ee SYSTEM "http://www.python.org/some.xml">]> <root>ⅇ</root> The case of parsed external entities works only for valid XML content. The XML standard also supports unparsed external entities with a ŃData declaratioǹ. External entity expansion opens the door to plenty of exploits. An attacker can abuse a vulnerable XML library and application to rebound and forward network requests with the IP address of the server. It highly depends on the parser and the application what kind of exploit is possible. For example: * An attacker can circumvent firewalls and gain access to restricted resources as all the requests are made from an internal and trustworthy IP address, not from the outside. * An attacker can abuse a service to attack, spy on or DoS your servers but also third party services. The attack is disguised with the IP address of the server and the attacker is able to utilize the high bandwidth of a big machine. * An attacker can exhaust additional resources on the machine, e.g. with requests to a service that doesn't respond or responds with very large files. * An attacker may gain knowledge, when, how often and from which IP address an XML document is accessed. * An attacker could send mail from inside your network if the URL handler supports s̀mtp://`URIs. external entity expansion (local file) ---------- External entities with references to local files are a sub-case of external entity expansion. It's listed as an extra attack because it deserves extra attention. Some XML libraries such as lxml disable network access by default but still allow entity expansion with local file access by default. Local files are either referenced with a f̀ile:///`URL or by a file path (either relative or absolute). An attacker may be able to access and download all files that can be read by the application process. This may include critical configuration files, too. :: <!DOCTYPE external [<!ENTITY ee SYSTEM "file:///PATH/TO/simple.xml">]> <root>ⅇ</root> DTD retrieval ---------- This case is similar to external entity expansion, too. Some XML libraries like Python's xml.dom.pulldom retrieve document type definitions from remote or local locations. Several

attack scenarios from the external entity case apply to this issue as well. :: <?xml version="1.0" encoding="utf-8"?> <!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN" "http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd"> <html> <head/> <body>text</body> </html> Python XML Libraries ==========
.. csv-table:: vulnerabilities and features :header: "kind", "sax", "etree", "minidom", "pulldom", "xmlrpc", "lxml", "genshi" :widths: 24, 7, 8, 8, 7, 8, 8, 8 :stub-columns: 0 "billion laughs", "**True**", "**True**", "**True**", "**True**", "**True**", "False (1)", "False (5)" "quadratic blowup", "**True**", "**True**", "**True**", "**True**", "**True**", "**True**", "False (5)" "external entity expansion (remote)", "**True**", "False (3)", "False (4)", "**True**", "false", "False (1)", "False (5)" "external entity expansion (local file)", "**True**", "False (3)", "False (4)", "**True**", "false", "**True**", "False (5)" "DTD retrieval", "**True**", "False", "False", "**True**", "false", "False (1)", "False" "gzip bomb", "False", "False", "False", "False", "**True**", "**partly** (2)", "False" "xpath support (7)", "False", "False", "False", "False", "False", "**True**", "False" "xsl(t) support (7)", "False", "False", "False", "False", "False", "**True**", "False" "xinclude support (7)", "False", "**True** (6)", "False", "False", "False", "**True** (6)", "**True**" "C library", "expat", "expat", "expat", "expat", "expat", "libxml2", "expat" 1. Lxml is protected against billion laughs attacks and doesn't do network lookups by default. 2. libxml2 and lxml are not directly vulnerable to gzip decompression bombs but they don't protect you against them either. 3. xml.etree doesn't expand entities and raises a ParserError when an entity occurs. 4. minidom doesn't expand entities and simply returns the unexpanded entity verbatim. 5. genshi.input of genshi 0.6 doesn't support entity expansion and raises a ParserError when an entity occurs. 6. Library has (limited) XInclude support but requires an additional step to process inclusion. 7. These are features but they may introduce exploitable holes, see `Other things to consider`_ Settings in standard library ---------- xml.sax.handler Features ..... feature_external_ges (http://xml.org/sax/features/external-general-entities) disables external entity expansion feature_external_pes (http://xml.org/sax/features/external-parameter-entities) the option is ignored and doesn't modify any functionality DOM xml.dom.xmlbuilder.Options ..... external_parameter_entities ignored external_general_entities ignored external_dtd_subset ignored entities unsure defusedxml ========== The `defusedxml package`_ (`defusedxml on PyPI`_) contains several Python-only workarounds and fixes for denial of service and other vulnerabilities in Python's XML libraries. In order to benefit from the protection you just have to import and use the listed functions / classes from the right defusedxml module instead of the original module. Merely `defusedxml.xmlrpc`_ is implemented as monkey patch. Instead of:: >>> from xml.etree.ElementTree import parse >>> et = parse(xmlfile) alter code to:: >>> from defusedxml.ElementTree import parse >>> et = parse(xmlfile) Additionally the package has an **untested** function

to monkey patch all stdlib modules with `defusedxml.defuse_stdlib()`. All functions and parser classes accept three additional keyword arguments. They return either the same objects as the original functions or compatible subclasses. forbid_dtd (default: False) disallow XML with a `<!DOCTYPE>` processing instruction and raise a *DTDForbidden* exception when a DTD processing instruction is found. forbid_entities (default: True) disallow XML with `<!ENTITY>`declarations inside the DTD and raise an *EntitiesForbidden* exception when an entity is declared. forbid_external (default: True) disallow any access to remote or local resources in external entities or DTD and raising an *ExternalReferenceForbidden* exception when a DTD or entity references an external resource. defusedxml (package) ---------- DefusedXmlException, DTDForbidden, EntitiesForbidden, ExternalReferenceForbidden, NotSupportedError defuse_stdlib() (*experimental*) defusedxml.cElementTree ---------- **NOTE** `defusedxml.cElementTree`is deprecated and will be removed in a future release. Import from `defusedxml.ElementTree`instead. parse(), iterparse(), fromstring(), XMLParser defusedxml.ElementTree ---------- parse(), iterparse(), fromstring(), XMLParser defusedxml.expatreader ---------- create_parser(), DefusedExpatParser defusedxml.sax ---------- parse(), parseString(), make_parser() defusedxml.expatbuilder ---------- parse(), parseString(), DefusedExpatBuilder, DefusedExpatBuilderNS defusedxml.minidom ---------- parse(), parseString() defusedxml.pulldom ---------- parse(), parseString() defusedxml.xmlrpc ---------- The fix is implemented as monkey patch for the stdlib's xmlrpc package (3.x) or xmlrpclib module (2.x). The function `monkey_patch()`enables the fixes, `unmonkey_patch()`removes the patch and puts the code in its former state. The monkey patch protects against XML related attacks as well as decompression bombs and excessively large requests or responses. The default setting is 30 MB for requests, responses and gzip decompression. You can modify the default by changing the module variable `MAX_DATA`. A value of `-1`disables the limit. defusedxml.lxml ---------- **DEPRECATED** The module is deprecated and will be removed in a future release. The module acts as an *example* how you could protect code that uses lxml.etree. It implements a custom Element class that filters out Entity instances, a custom parser factory and a thread local storage for parser instances. It also has a check_docinfo() function which inspects a tree for internal or external DTDs and entity declarations. In order to check for entities lxml > 3.0 is required. parse(), fromstring() RestrictedElement, GlobalParserTLS, getDefaultParser(), check_docinfo() defusedexpat ========== The `defusedexpat package`_ (`defusedexpat on PyPI`_) comes with binary extensions and a `modified expat`_ library instead of the standard `expat parser`_. It's basically a stand-alone version of the patches for Python's standard library C extensions. Modifications in expat ---------- new definitions:: XML_BOMB_PROTECTION

XML_DEFAULT_MAX_ENTITY_INDIRECTIONS XML_DEFAULT_MAX_ENTITY_EXPANSIONS XML_DEFAULT_RESET_DTD new XML_FeatureEnum members:: XML_FEATURE_MAX_ENTITY_INDIRECTIONS XML_FEATURE_MAX_ENTITY_EXPANSIONS XML_FEATURE_IGNORE_DTD new XML_Error members:: XML_ERROR_ENTITY_INDIRECTIONS XML_ERROR_ENTITY_EXPANSION new API functions:: int XML_GetFeature(XML_Parser parser, enum XML_FeatureEnum feature, long *value); int XML_SetFeature(XML_Parser parser, enum XML_FeatureEnum feature, long value); int XML_GetFeatureDefault(enum XML_FeatureEnum feature, long *value); int XML_SetFeatureDefault(enum XML_FeatureEnum feature, long value); XML_FEATURE_MAX_ENTITY_INDIRECTIONS Limit the amount of indirections that are allowed to occur during the expansion of a nested entity. A counter starts when an entity reference is encountered. It resets after the entity is fully expanded. The limit protects the parser against exponential entity expansion attacks (aka billion laughs attack). When the limit is exceeded the parser stops and fails with XML_ERROR_ENTITY_INDIRECTIONS`. A value of 0 disables the protection. Supported range 0 .. UINT_MAX Default 40 XML_FEATURE_MAX_ENTITY_EXPANSIONS Limit the total length of all entity expansions throughout the entire document. The lengths of all entities are accumulated in a parser variable. The setting protects against quadratic blowup attacks (lots of expansions of a large entity declaration). When the sum of all entities exceeds the limit, the parser stops and fails with XML_ERROR_ENTITY_EXPANSION`. A value of 0 disables the protection. Supported range 0 .. UINT_MAX Default 8 MiB XML_FEATURE_RESET_DTD Reset all DTD information after the <!DOCTYPE> block has been parsed. When the flag is set (default: false) all DTD information after the endDoctypeDeclHandler has been called. The flag can be set inside the endDoctypeDeclHandler. Without DTD information any entity reference in the document body leads to XML_ERROR_UNDEFINED_ENTITY`. Supported range 0, 1 Default 0 How to avoid XML vulnerabilities ================================ Best practices ---------- * Don't allow DTDs * Don't expand entities * Don't resolve externals * Limit parse depth * Limit total input size * Limit parse time * Favor a SAX or iterparse-like parser for potential large data * Validate and properly quote arguments to XSL transformations and XPath queries * Don't use XPath expression from untrusted sources * Don't apply XSL transformations that come untrusted sources (based on Brad Hill's `Attacking XML Security`_) Other things to consider ======================== XML, XML parsers and processing libraries have more features and possible issue that could lead to DoS vulnerabilities or security exploits in applications. I have compiled an incomplete list of theoretical issues that need further research and more attention. The list is deliberately pessimistic and a bit paranoid, too. It contains things that might go wrong under daffy circumstances. attribute

blowup / hash collision attack ---------- XML parsers may use an algorithm with quadratic runtime O(n :sup:2) to handle attributes and namespaces. If it uses hash tables (dictionaries) to store attributes and namespaces the implementation may be vulnerable to hash collision attacks, thus reducing the performance to O(n :sup:2) again. In either case an attacker is able to forge a denial of service attack with an XML document that contains thousands upon thousands of attributes in a single node. I haven't researched yet if expat, pyexpat or libxml2 are vulnerable. decompression bomb ---------- The issue of decompression bombs (aka ZIP bomb`_) apply to all XML libraries that can parse compressed XML stream like gzipped HTTP streams or LZMA-ed files. For an attacker it can reduce the amount of transmitted data by three magnitudes or more. Gzip is able to compress 1 GiB zeros to roughly 1 MB, lzma is even better:: $ dd if=/dev/zero bs=1M count=1024 | gzip > zeros.gz $ dd if=/dev/zero bs=1M count=1024 | lzma -z > zeros.xy $ ls -sh zeros.* 1020K zeros.gz 148K zeros.xy None of Python's standard XML libraries decompress streams except for `xmlrpclib`. The module is vulnerable <https://bugs.python.org/issue16043> to decompression bombs. lxml can load and process compressed data through libxml2 transparently. libxml2 can handle even very large blobs of compressed data efficiently without using too much memory. But it doesn't protect applications from decompression bombs. A carefully written SAX or iterparse-like approach can be safe. Processing Instruction ---------- PI`_'s like:: <?xml-stylesheet type="text/xsl" href="style.xsl"?> may impose more threats for XML processing. It depends if and how a processor handles processing instructions. The issue of URL retrieval with network or local file access apply to processing instructions, too. Other DTD features ---------- DTD`_ has more features like `<!NOTATION>`. I haven't researched how these features may be a security threat. XPath ----- XPath statements may introduce DoS vulnerabilities. Code should never execute queries from untrusted sources. An attacker may also be able to create an XML document that makes certain XPath queries costly or resource hungry. XPath injection attacks ---------- XPath injeciton attacks pretty much work like SQL injection attacks. Arguments to XPath queries must be quoted and validated properly, especially when they are taken from the user. The page `Avoid the dangers of XPath injection`_ list some ramifications of XPath injections. Python's standard library doesn't have XPath support. Lxml supports parameterized XPath queries which does proper quoting. You just have to use its xpath() method correctly:: # DON'T >>> tree.xpath("/tag[@id='%s']" % value) # instead do >>> tree.xpath("/tag[@id=$tagid]", tagid=name) XInclude -------- XML Inclusion`_ is another way to load and include external files:: <root xmlns:xi="http://www.w3.org/2001/XInclude"> <xi:include href="filename.txt" parse="text" /> </root> This feature should be disabled when XML files from an untrusted source are processed. Some Python XML libraries and libxml2

support XInclude but don't have an option to sandbox inclusion and limit it to allowed directories. XMLSchema location ---------- A validating XML parser may download schema files from the information in a `xsi:schemaLocation`attribute. :: <ead xmlns="urn:isbn:1-931666-22-9" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:schemaLocation="urn:isbn:1-931666-22-9 http://www.loc.gov/ead/ead.xsd"> </ead> XSL Transformation ---------- You should keep in mind that XSLT is a Turing complete language. Never process XSLT code from unknown or untrusted source! XSLT processors may allow you to interact with external resources in ways you can't even imagine. Some processors even support extensions that allow read/write access to file system, access to JRE objects or scripting with Jython. Example from `Attacking XML Security`_ for Xalan-J:: <xsl:stylesheet version="1.0" xmlns:xsl="http://www.w3.org/1999/XSL/Transform" xmlns:rt="http://xml.apache.org/xalan/java/java.lang.Runtime" xmlns:ob="http://xml.apache.org/xalan/java/java.lang.Object" exclude-result-prefixes= "rt ob"> <xsl:template match="/"> <xsl:variable name="runtimeObject" select="rt:getRuntime()"/> <xsl:variable name="command" select="rt:exec($runtimeObject, 'c:\Windows\system32\cmd.exe')"/> <xsl:variable name="commandAsString" select="ob:toString($command)"/> <xsl:value-of select="$commandAsString"/> </xsl:template> </xsl:stylesheet> Related CVEs ========== CVE-2013-1664 Unrestricted entity expansion induces DoS vulnerabilities in Python XML libraries (XML bomb) CVE-2013-1665 External entity expansion in Python XML libraries inflicts potential security flaws and DoS vulnerabilities Other languages / frameworks ========== Several other programming languages and frameworks are vulnerable as well. A couple of them are affected by the fact that libxml2 up to 2.9.0 has no protection against quadratic blowup attacks. Most of them have potential dangerous default settings for entity expansion and external entities, too. Perl ---- Perl's XML::Simple is vulnerable to quadratic entity expansion and external entity expansion (both local and remote). Ruby ---- Ruby's REXML document parser is vulnerable to entity expansion attacks (both quadratic and exponential) but it doesn't do external entity expansion by default. In order to counteract entity expansion you have to disable the feature:: REXML::Document.entity_expansion_limit = 0 libxml-ruby and hpricot don't expand entities in their default configuration. PHP --- PHP's SimpleXML API is vulnerable to quadratic entity expansion and loads entities from local and remote resources. The option `LIBXML_NONET`disables network access but still allows local file access. `LIBXML_NOENT`seems to have no effect on entity expansion in PHP 5.4.6. C# / .NET / Mono ---------- Information in XML DoS and Defenses (MSDN)`_ suggest that .NET is vulnerable with its default settings. The article contains code snippets how to create a secure

XML reader:: XmlReaderSettings settings = new XmlReaderSettings(); settings.ProhibitDtd = false; settings.MaxCharactersFromEntities = 1024; settings.XmlResolver = null; XmlReader reader = XmlReader.Create(stream, settings); Java ---- Untested. The documentation of Xerces and its Xerces SecurityMananger`_ sounds like Xerces is also vulnerable to billion laugh attacks with its default settings. It also does entity resolving when an `org.xml.sax.EntityResolver`is configured. I'm not yet sure about the default setting here. Java specialists suggest to have a custom builder factory:: DocumentBuilderFactory builderFactory = DocumentBuilderFactory.newInstance(); builderFactory.setXIncludeAware(False); builderFactory.setExpandEntityReferences(False); builderFactory.setFeature(XMLConstants.FEATURE_SECURE_PROCESSING, True); # either builderFactory.setFeature("http://apache.org/xml/features/disallow-doctype-decl", True); # or if you need DTDs builderFactory.setFeature("http://xml.org/sax/features/external-general-entities", False); builderFactory.setFeature("http://xml.org/sax/features/external-parameter-entities", False); builderFactory.setFeature("http://apache.org/xml/features/nonvalidating/load-external-dtd", False); builderFactory.setFeature("http://apache.org/xml/features/nonvalidating/load-dtd-grammar", False); TODO ==== * DOM: Use xml.dom.xmlbuilder options for entity handling * SAX: take feature_external_ges and feature_external_pes (?) into account * test experimental monkey patching of stdlib modules * improve documentation License ======= Copyright (c) 2013-2017 by Christian Heimes <christian@python.org> Licensed to PSF under a Contributor Agreement. See https://www.python.org/psf/license for licensing details. Acknowledgements ================ Brett Cannon (Python Core developer) review and code cleanup Antoine Pitrou (Python Core developer) code review Aaron Patterson, Ben Murphy and Michael Koziarski (Ruby community) Many thanks to Aaron, Ben and Michael from the Ruby community for their report and assistance. Thierry Carrez (OpenStack) Many thanks to Thierry for his report to the Python Security Response Team on behalf of the OpenStack security team. Carl Meyer (Django) Many thanks to Carl for his report to PSRT on behalf of the Django security team. Daniel Veillard (libxml2) Many thanks to Daniel for his insight and assistance with libxml2. semantics GmbH (https://www.semantics.de/) Many thanks to my employer semantics for letting me work on the issue during working hours as part of semantics's open source initiative. References ========== * XML DoS and Defenses (MSDN)`_ * Billion Laughs`_ on Wikipedia * ZIP bomb`_ on Wikipedia * Configure SAX parsers for secure processing`_ * Testing for XML Injection`_ .. _defusedxml package: https://github.com/tiran/defusedxml ..

_defusedxml on PyPI: https://pypi.python.org/pypi/defusedxml .. _defusedexpat package: https://github.com/tiran/defusedexpat .. _defusedexpat on PyPI: https://pypi.python.org/pypi/defusedexpat .. _modified expat: https://github.com/tiran/expat .. _expat parser: http://expat.sourceforge.net/ .. _Attacking XML Security: https://www.isecpartners.com/media/12976/iSEC-HILL-Attacking-XML-Security-bh07.pdf .. _Billion Laughs: https://en.wikipedia.org/wiki/Billion_laughs .. _XML DoS and Defenses (MSDN): https://msdn.microsoft.com/en-us/magazine/ee335713.aspx .. _ZIP bomb: https://en.wikipedia.org/wiki/Zip_bomb .. _DTD: https://en.wikipedia.org/wiki/Document_Type_Definition .. _PI: https://en.wikipedia.org/wiki/Processing_Instruction .. _Avoid the dangers of XPath injection: http://www.ibm.com/developerworks/xml/library/x-xpathinjection/index.html .. _Configure SAX parsers for secure processing: http://www.ibm.com/developerworks/xml/library/x-tipcfsx/index.html .. _Testing for XML Injection: https://www.owasp.org/index.php/Testing_for_XML_Injection_(OWASP-DV-008) .. _Xerces SecurityMananger: https://xerces.apache.org/xerces2-j/javadocs/xerces2/org/apache/xerces/util/SecurityManager.html .. _XML Inclusion: https://www.w3.org/TR/xinclude/#include_element Changelog ========= defusedxml 0.7.1 ------------------- *Release date: 08-Mar-2021* - Fix regression `defusedxml.ElementTree.ParseError`(#63) The `ParseError` exception is now the same class object as `xml.etree.ElementTree.ParseError` again. defusedxml 0.7.0 --------------- *Release date: 4-Mar-2021* - No changes defusedxml 0.7.0rc2 ------------------ *Release date: 12-Jan-2021* - Re-add and deprecate `defusedxml.cElementTree`- Use GitHub Actions instead of TravisCI - Restore `ElementTree`attribute of `xml.etree`module after patching defusedxml 0.7.0rc1 ------------------ *Release date: 04-May-2020* - Add support for Python 3.9 - `defusedxml.cElementTree`is not available with Python 3.9. - Python 2 is deprecate. Support for Python 2 will be removed in 0.8.0. defusedxml 0.6.0 --------------- *Release date: 17-Apr-2019* - Increase test coverage. - Add badges to README. defusedxml 0.6.0rc1 ------------------ *Release date: 14-Apr-2019* - Test on Python 3.7 stable and 3.8-dev - Drop support for Python 3.4 - No longer pass *html* argument to XMLParse. It has been deprecated and ignored for a long time. The DefusedXMLParser still takes a html argument. A deprecation warning is issued when the argument is False and a TypeError when it's True. - defusedxml now fails early when pyexpat stdlib module is not available or broken. - defusedxml.ElementTree.__all__ now lists ParseError as public attribute. - The defusedxml.ElementTree and defusedxml.cElementTree modules had a typo and used XMLParse instead of XMLParser as an alias for DefusedXMLParser. Both the old and fixed name are now available. defusedxml 0.5.0 ---------------- *Release date: 07-Feb-2017* - No changes defusedxml 0.5.0.rc1 ------------------ *Release date: 28-Jan-2017* - Add compatibility with Python 3.6 - Drop

support for Python 2.6, 3.1, 3.2, 3.3 - Fix lxml tests (XMLSyntaxError: Detected an entity reference loop) defusedxml 0.4.1 ---------- *Release date: 28-Mar-2013* - Add more demo exploits, e.g. python_external.py and Xalan XSLT demos. - Improved documentation. defusedxml 0.4 ---------- *Release date: 25-Feb-2013* - As per http://seclists.org/oss-sec/2013/q1/340 please REJECT CVE-2013-0278, CVE-2013-0279 and CVE-2013-0280 and use CVE-2013-1664, CVE-2013-1665 for OpenStack/etc. - Add missing parser_list argument to sax.make_parser(). The argument is ignored, though. (thanks to Florian Apolloner) - Add demo exploit for external entity attack on Python's SAX parser, XML-RPC and WebDAV. defusedxml 0.3 ---------- *Release date: 19-Feb-2013* - Improve documentation defusedxml 0.2 ---------- *Release date: 15-Feb-2013* - Rename ExternalEntitiesForbidden to ExternalReferenceForbidden - Rename defusedxml.lxml.check_dtd() to check_docinfo() - Unify argument names in callbacks - Add arguments and formatted representation to exceptions - Add forbid_external argument to all functions and classes - More tests - LOTS of documentation - Add example code for other languages (Ruby, Perl, PHP) and parsers (Genshi) - Add protection against XML and gzip attacks to xmlrpclib defusedxml 0.1 ---------- *Release date: 08-Feb-2013* - Initial and internal release for PSRT review

Package Info

Project URL

https://github.com/tiran/defusedxml

Package Download URL

https://files.pythonhosted.org/packages/0f/d5/c66da9b79e5bdb124974bfe172b4daf3c984ebd9c2a06e2b8a4dc7331c72/defusedxml-0.7.1.tar.gz

Dependency Path

solnlib > defusedxml, splunktalib > defusedxml, splunktaucclib > defusedxml, splunktaucclib > solnlib > defusedxml

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deprecation 2.1.0

pip+deprecation$2.1.0

Transitive

Description

deprecation ========== .. image:: https://readthedocs.org/projects/deprecation/badge/?version=latest :target: http://deprecation.readthedocs.io/en/latest/ :alt: Documentation Status .. image:: https://travis-ci.org/briancurtin/deprecation.svg?branch=master :target: https://travis-ci.org/briancurtin/deprecation .. image:: https://codecov.io/gh/briancurtin/deprecation/branch/master/graph/badge.svg :target: https://codecov.io/gh/briancurtin/deprecation The `deprecation` library provides a `deprecated`decorator and a `fail_if_not_removed`decorator for your tests. Together, the two enable the automation of several things: 1. The docstring of a deprecated method gets the deprecation details appended to the end of it. If you generate your API docs direct from your source, you don't need to worry about writing your own notification. You also don't need to worry about forgetting to write it. It's done for you. 2. Rather than having code live on forever because you only deprecated it but never actually moved on from it, you can have your tests tell you when it's time to remove the code. The `@deprecated`decorator can be told when it's time to entirely remove the code, which causes `@fail_if_not_removed`to raise an `AssertionError`, causing either your unittest or py.test tests to fail. See http://deprecation.readthedocs.io/ for the full documentation. Installation

========== :: pip install deprecation Usage ===== :: import deprecation @deprecation.deprecated(deprecated_in="1.0", removed_in="2.0", current_version=__version__, details="Use the bar function instead") def foo(): """Do some stuff""" return 1 ...but doesn't Python ignore DeprecationWarning? ========== Yes, by default since 2.7—and for good reason [#]_ —and this works fine with that. 1. It often makes sense for you to run your tests with a `-W`flag or the PYTHONWARNINGS`environment variable so you catch warnings in development and handle them appropriately. The warnings raised by this library show up there, as they're subclasses of the built-in DeprecationWarning`. See the `Command Line <https://docs.python.org/2/using/cmdline.html#cmdoption-W>`_ and Environment Variable <https://docs.python.org/2/using/cmdline.html#envvar-PYTHONWARNINGS>`_ documentation for more details. 2. Even if you don't enable those things, the behavior of this library remains the same. The docstrings will still be updated and the tests will still fail when they need to. You'll get the benefits regardless of what Python cares about DeprecationWarning`. ---- .. [#] Exposing application users to DeprecationWarning\s that are emitted by lower-level code needlessly involves end-users in "how things are done." It often leads to users raising issues about warnings they're presented, which on one hand is done rightfully so, as it's been presented to them as some sort of issue to resolve. However, at the same time, the warning could be well known and planned for. From either side, loud DeprecationWarning\s can be seen as noise that isn't necessary outside of development.

Package Info

Project URL

http://deprecation.readthedocs.io/

Package Download URL

https://files.pythonhosted.org/packages/5a/d3/8ae2869247df154b64c1884d7346d412fed0c49df84db635aab2d1c40e62/deprecation-2.1.0.tar.gz

Dependency Path

ssh://git@github.com/splunk/splunksdc.git > splunk-sdk > deprecation, solnlib > splunk-sdk > deprecation, splunktaucclib > solnlib > splunk-sdk > deprecation, splunktaucclib > splunk-sdk > deprecation

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None

exceptiongroup 1.3.1

pip+exceptiongroup$1.3.1

Transitive

Description

Backport of PEP 654 (exception groups)

Package Info

Project URL

https://pypi.org/project/exceptiongroup/

Package Download URL

https://files.pythonhosted.org/packages/50/79/66800aadf48771f6b62f7eb014e352e5d06856655206165d775e675a02c9/exceptiongroup-1.3.1.tar.gz

Dependency Path

cattrs > exceptiongroup

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None

googleapis-common-protos 1.75.5

pip+googleapis-common-protos$1.75.5

Transitive

Description

Common protobufs used in Google APIs

Package Info

Project URL

https://pypi.org/project/googleapis-common-protos/

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https://files.pythonhosted.org/packages/8d/2b/6ce81972d5c8cab9705fddce3153be63222d9e12fd96f8baba5038a744dd/googleapis_common_protos-1.75.5.tar.gz

Dependency Path

opentelemetry-exporter-otlp-proto-grpc > googleapis-common-protos, solnlib > opentelemetry-exporter-otlp-proto-grpc > googleapis-common-

protos, splunktaucclib > solnlib > opentelemetry-exporter-otlp-proto-grpc > googleapis-common-protos

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None

idna 3.18

pip+idna$3.18

Transitive

Description

Internationalized Domain Names in Applications (IDNA)

Package Info

Project URL

https://pypi.org/project/idna/

Package Download URL

https://files.pythonhosted.org/packages/cd/63/9496c57188a2ee585e0f1db071d75089a11e98aa86eb99d9d7618fc1edce/idna-3.18.tar.gz

Dependency Path

ssh://git@github.com/splunk/splunksdc.git > requests > idna, azure-core > requests > idna, azure-eventhub > azure-core > requests > idna, azure-identity > azure-core > requests > idna, azure-identity > msal > requests > idna, azure-identity > msal-extensions > msal > requests > idna, azure-mgmt-security > azure-mgmt-core > azure-core > requests > idna, requests > idna, splunktalib > requests > idna

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None

importlib-metadata 6.11.0

pip+importlib-metadata$6.11.0

Transitive

Description

Read metadata from Python packages

Package Info

Project URL

https://pypi.org/project/importlib-metadata/

Package Download URL

https://files.pythonhosted.org/packages/ee/eb/58c2ab27ee628ad801f56d4017fe62afab0293116f6d0b08f1d5bd46e06f/importlib_metadata-6.11.0.tar.gz

Dependency Path

opentelemetry-api > importlib-metadata, opentelemetry-exporter-otlp-proto-grpc > opentelemetry-api > importlib-metadata, opentelemetry-exporter-otlp-proto-grpc > opentelemetry-exporter-otlp-common > opentelemetry-sdk > opentelemetry-semantic-conventions > opentelemetry-api > importlib-metadata, opentelemetry-exporter-otlp-proto-grpc > opentelemetry-sdk > opentelemetry-semantic-conventions > opentelemetry-api > importlib-metadata, opentelemetry-sdk > opentelemetry-api > importlib-metadata, opentelemetry-sdk > opentelemetry-semantic-conventions > opentelemetry-api > importlib-metadata, solnlib > opentelemetry-api > importlib-metadata, solnlib > opentelemetry-sdk > opentelemetry-semantic-conventions > opentelemetry-api > importlib-metadata, splunktaucclib > solnlib > opentelemetry-api > importlib-metadata, splunktaucclib > solnlib > opentelemetry-sdk > opentelemetry-semantic-conventions > opentelemetry-api > importlib-metadata

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None

isodate 0.7.2

pip+isodate$0.7.2

Transitive

Description

An ISO 8601 date/time/duration parser and formatter

Package Info

Project URL

https://pypi.org/project/isodate/

Package Download URL

https://files.pythonhosted.org/packages/54/4d/e940025e2ce31a8ce1202635910747e5a87cc3a6a6bb2d00973375014749/isodate-0.7.2.tar.gz

Dependency Path

azure-mgmt-security > isodate

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None

msal 1.37.0

pip+msal$1.37.0

Transitive

Description

The Microsoft Authentication Library (MSAL) for Python library enables your app to access the Microsoft Cloud by supporting authentication of users with Microsoft Azure Active Directory accounts (AAD) and Microsoft Accounts (MSA) using industry standard OAuth2 and OpenID Connect.

Package Info

Project URL

https://github.com/AzureAD/microsoft-authentication-library-for-python

Package Download URL

https://files.pythonhosted.org/packages/9a/99/d840198ecf6e8057bbc937f129ae940404485d736cda73253bbff9537f01/msal-1.37.0.tar.gz

Dependency Path

azure-identity > msal, azure-identity > msal-extensions > msal

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None

msal-extensions 1.3.1

pip+msal-extensions$1.3.1

Transitive

Description

Microsoft Authentication Library extensions (MSAL EX) provides a persistence API that can save your data on disk, encrypted on Windows, macOS and Linux. Concurrent data access will be coordinated by a file lock mechanism.

Package Info

Project URL

https://pypi.org/project/msal-extensions/

Package Download URL

https://files.pythonhosted.org/packages/01/99/5d239b6156eddf761a636bded1118414d161bd6b7b37a9335549ed159396/msal_extensions-1.3.1.tar.gz

Dependency Path

azure-identity > msal-extensions

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None

opentelemetry-exporter-otlp-common 0.66b1

pip+opentelemetry-exporter-otlp-common$0.66b1

Transitive

Description

OpenTelemetry OTLP HTTP export utilities

Package Info

Project URL

https://pypi.org/project/opentelemetry-exporter-otlp-common/

Package Download URL

https://files.pythonhosted.org/packages/cb/19/41de712173f43057e4532d42ece7d0c6d4210d353e5752433cb14987643f/opentelemetry_exporter_otlp_common-0.66b1.tar.gz

Dependency Path

opentelemetry-exporter-otlp-proto-grpc > opentelemetry-exporter-otlp-common, solnlib > opentelemetry-exporter-otlp-proto-grpc > opentelemetry-exporter-otlp-common, splunktaucclib > solnlib > opentelemetry-exporter-otlp-proto-grpc > opentelemetry-exporter-otlp-common

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None

opentelemetry-exporter-otlp-proto-common 1.45.1

pip+opentelemetry-exporter-otlp-proto-common$1.45.1

Transitive

Description

OpenTelemetry Protobuf encoding

Package Info

Project URL

https://pypi.org/project/opentelemetry-exporter-otlp-proto-common/

Package Download URL

https://files.pythonhosted.org/packages/c1/8e/65e85e5137991a3c493b11682151d198638a5bc1dd4b4c5f67e013c57d7c/opentelemetry_exporter_otlp_proto_common-1.45.1.tar.gz

Dependency Path

opentelemetry-exporter-otlp-proto-grpc > opentelemetry-exporter-otlp-proto-common, solnlib > opentelemetry-exporter-otlp-proto-grpc > opentelemetry-exporter-otlp-proto-common, splunktaucclib > solnlib > opentelemetry-exporter-otlp-proto-grpc > opentelemetry-exporter-otlp-proto-common

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None

opentelemetry-proto 1.45.1

pip+opentelemetry-proto$1.45.1

Transitive

Description

OpenTelemetry Python Proto

Package Info

Project URL

https://pypi.org/project/opentelemetry-proto/

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https://files.pythonhosted.org/packages/4b/7f/15f014fb195da6c2dbb6c71399b8e76824878718e94de6454038488eed28/opentelemetry_proto-1.45.1.tar.gz

Dependency Path

opentelemetry-exporter-otlp-proto-grpc > opentelemetry-exporter-otlp-proto-common > opentelemetry-proto, opentelemetry-exporter-otlp-proto-grpc > opentelemetry-proto, solnlib > opentelemetry-exporter-otlp-proto-grpc > opentelemetry-exporter-otlp-proto-common > opentelemetry-proto, solnlib > opentelemetry-exporter-otlp-proto-grpc > opentelemetry-proto, splunktaucclib > solnlib > opentelemetry-exporter-otlp-proto-grpc > opentelemetry-exporter-otlp-proto-common > opentelemetry-proto, splunktaucclib > solnlib > opentelemetry-exporter-otlp-proto-grpc > opentelemetry-proto

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opentelemetry-semantic-conventions 0.66b1

pip+opentelemetry-semantic-conventions$0.66b1

Transitive

Description

OpenTelemetry Semantic Conventions

Package Info

Project URL

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https://files.pythonhosted.org/packages/46/e4/dbbfb2a010c4db2224a5114638acede6fe563d33cc20fb1752cebcbe6298/opentelemetry_semantic_conventions-0.66b1.tar.gz

Dependency Path

opentelemetry-exporter-otlp-proto-grpc > opentelemetry-exporter-otlp-common > opentelemetry-sdk > opentelemetry-semantic-conventions, opentelemetry-exporter-otlp-proto-grpc > opentelemetry-sdk > opentelemetry-semantic-conventions, opentelemetry-sdk > opentelemetry-

semantic-conventions, solnlib > opentelemetry-exporter-otlp-proto-grpc > opentelemetry-exporter-otlp-common > opentelemetry-sdk > opentelemetry-semantic-conventions, solnlib > opentelemetry-exporter-otlp-proto-grpc > opentelemetry-sdk > opentelemetry-semantic-conventions, solnlib > opentelemetry-sdk > opentelemetry-semantic-conventions, splunktaucclib > solnlib > opentelemetry-exporter-otlp-proto-grpc > opentelemetry-exporter-otlp-common > opentelemetry-sdk > opentelemetry-semantic-conventions, splunktaucclib > solnlib > opentelemetry-exporter-otlp-proto-grpc > opentelemetry-sdk > opentelemetry-semantic-conventions, splunktaucclib > solnlib > opentelemetry-sdk > opentelemetry-semantic-conventions

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Transitive

Description

packaging ========= .. start-intro Reusable core utilities for various Python Packaging ỉnteroperability specifications <https://packaging.python.org/specifications/>`_. This library provides utilities that implement the interoperability specifications which have clearly one correct behaviour (eg: :pep:`440) or benefit greatly from having a single shared implementation (eg: :pep:`425). .. end-intro The `packaging`project includes the following: version handling, specifiers, markers, requirements, tags, utilities. Documentation ------------- The `documentation`_ provides information and the API for the following: - Version Handling - Specifiers - Markers - Requirements - Tags - Utilities Installation ------------ Use `pip`to install these utilities:: pip install packaging The `packaging`library uses calendar-based versioning (YY.N). Discussion ---------- If you run into bugs, you can file them in our ỉssue tracker`_. You can also join `#pypa`on Freenode to ask questions or get involved. .. _`documentation`: https://packaging.pypa.io/ .. _ỉssue tracker`: https://github.com/pypa/packaging/issues Code of Conduct ---------------- Everyone interacting in the packaging project's codebases, issue trackers, chat rooms, and mailing lists is expected to follow the PSF Code of Conduct`_. .. _PSF Code of Conduct: https://github.com/pypa/.github/blob/main/CODE_OF_CONDUCT.md Contributing ------------ The `CONTRIBUTING.rst`file outlines how to contribute to this project as well as how to report a potential security issue. The documentation for this project also covers information about `project development`_ and `security`_. .. _`project development`: https://packaging.pypa.io/en/latest/development/ .. _`security`: https://packaging.pypa.io/en/latest/security/ Project History ---------------- Please review the `CHANGELOG.rst`file or the `Changelog documentation`_ for recent changes and project history. .. _`Changelog documentation`: https://packaging.pypa.io/en/latest/changelog/

Package Info

Project URL

https://pypi.org/project/packaging/

Package Download URL

https://files.pythonhosted.org/packages/a1/d4/1fc4078c65507b51b96ca8f8c3ba19e6a61c8253c72794544580a7b6c24d/packaging-25.0.tar.gz

Dependency Path

ssh://git@github.com/splunk/splunksdc.git > splunk-sdk > deprecation > packaging, solnlib > splunk-sdk > deprecation > packaging, splunktaucclib > solnlib > splunk-sdk > deprecation > packaging, splunktaucclib > splunk-sdk > deprecation > packaging

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None

pycparser 2.23

pip+pycparser$2.23

Transitive

Description

C parser in Python

Package Info

Project URL

https://pypi.org/project/pycparser/

Package Download URL

https://files.pythonhosted.org/packages/fe/cf/d2d3b9f5699fb1e4615c8e32ff220203e43b248e1dfcc6736ad9057731ca/pycparser-2.23.tar.gz

Dependency Path

azure-identity > cryptography > cffi > pycparser, azure-identity > msal > cryptography > cffi > pycparser, azure-identity > msal > pyjwt > cryptography > cffi > pycparser, azure-identity > msal-extensions > msal > cryptography > cffi > pycparser, azure-identity > msal-extensions > msal > pyjwt > cryptography > cffi > pycparser, cryptography > cffi > pycparser, pyjwt > cryptography > cffi > pycparser

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pycparser -- A C parser in Python

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None

PySocks 1.7.1

pip+pysocks$1.7.1

Transitive

Description

A Python SOCKS client module. See https://github.com/Anorov/PySocks for more information.

Package Info

Project URL

https://github.com/Anorov/PySocks

Package Download URL

https://files.pythonhosted.org/packages/bd/11/293dd436aea955d45fc4e8a35b6ae7270f5b8e00b53cf6c024c83b657a11/PySocks-1.7.1.tar.gz

Dependency Path

splunktaucclib > pysocks

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None

sortedcontainers 2.4.0

pip+sortedcontainers$2.4.0

Transitive

Description

Sorted Containers -- Sorted List, Sorted Dict, Sorted Set

Package Info

Project URL

http://www.grantjenks.com/docs/sortedcontainers/

Package Download URL

https://files.pythonhosted.org/packages/e8/c4/ba2f8066cceb6f23394729afe52f3bf7adec04bf9ed2c820b39e19299111/sortedcontainers-2.4.0.tar.gz

Dependency Path

ssh://git@github.com/splunk/splunksdc.git > sortedcontainers, solnlib > sortedcontainers, splunktalib > sortedcontainers, splunktaucclib > solnlib > sortedcontainers

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None

splunk-sdk 2.1.0

pip+splunk-sdk$2.1.0

Transitive

Description

None

Package Info

Project URL

http://github.com/splunk/splunk-sdk-python

Package Download URL

https://files.pythonhosted.org/packages/2c/89/31974e00319b750a5a126717d286e8addb683554454fed1ae6c86977cbcf/splunk-sdk-2.1.0.tar.gz

Dependency Path

ssh://git@github.com/splunk/splunksdc.git > splunk-sdk, solnlib > splunk-sdk, splunktaucclib > solnlib > splunk-sdk, splunktaucclib > splunk-sdk

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None

typing-extensions 4.15.0

pip+typing-extensions$4.15.0

Transitive

Description

Typing Extensions [![Chat at https://gitter.im/python/typing](https://badges.gitter.im/python/typing.svg)](https://gitter.im/python/typing) [Documentation](https://typing-extensions.readthedocs.io/en/latest/#) – [PyPI](https://pypi.org/project/typing-extensions/) ## Overview The `typing_extensions` module serves two related purposes: - Enable use of new type system features on older Python versions. For example, `typing.TypeGuard` is new in Python 3.10, but `typing_extensions` allows users on previous Python versions to use it too. - Enable experimentation with new type system PEPs before they are accepted and added to the `typing` module. `typing_extensions` is treated specially by static type checkers such as mypy and pyright. Objects defined in `typing_extensions` are treated the same way as equivalent forms in `typing`. `typing_extensions` uses [Semantic Versioning](https://semver.org/). The major version will be incremented only for backwards-incompatible changes. Therefore, it's safe to depend on `typing_extensions` like this: `typing_extensions >=x.y, <(x+1)`, where `x.y` is the first version that includes all features you need. ## Included items See [the documentation](https://typing-extensions.readthedocs.io/en/latest/#) for a complete listing of module contents. ## Contributing See [CONTRIBUTING.md](https://github.com/python/typing_extensions/blob/main/CONTRIBUTING.md) for how to contribute to `typing_extensions`.

Package Info

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Dependency Path

azure-core > typing-extensions, azure-eventhub > typing-extensions, azure-identity > typing-extensions, cattrs > exceptiongroup > typing-extensions, cattrs > typing-extensions, cryptography > typing-extensions, grpcio > typing-extensions, opentelemetry-api > typing-extensions, opentelemetry-exporter-otlp-proto-grpc > typing-extensions, opentelemetry-sdk > typing-extensions

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None

u-msgpack-python 2.8.0

pip+u-msgpack-python$2.8.0

Transitive

Description

A portable, lightweight MessagePack serializer and deserializer written in pure Python.

Package Info

Project URL

https://github.com/vsergeev/u-msgpack-python

Package Download URL

https://files.pythonhosted.org/packages/36/9d/a40411a475e7d4838994b7f6bcc6bfca9acc5b119ce3a7503608c4428b49/u-msgpack-python-2.8.0.tar.gz

Dependency Path

ssh://git@github.com/splunk/splunksdc.git > u-msgpack-python

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urllib3 1.26.20

pip+urllib3$1.26.20

Transitive

Description

<h1 align="center"> ![urllib3] (https://github.com/urllib3/urllib3/raw/main/docs/_static/banner_github.svg) </h1> <p align="center">   <img alt="Documentation Status"

src="https://readthedocs.org/projects/urllib3/badge/?version=latest" />
     </p> urllib3 is a powerful, *user-friendly* HTTP client for Python. Much of the Python ecosystem already uses urllib3 and you should too. urllib3 brings many critical features that are missing from the Python standard libraries: - Thread safety. - Connection pooling. - Client-side SSL/TLS verification. - File uploads with multipart encoding. - Helpers for retrying requests and dealing with HTTP redirects. - Support for gzip, deflate, brotli, and zstd encoding. - Proxy support for HTTP and SOCKS. - 100% test coverage. urllib3 is powerful and easy to use: þython3 >>> import urllib3 >>> resp = urllib3.request("GET", "http://httpbin.org/robots.txt") >>> resp.status 200 >>> resp.data b"User-agent: *\nDisallow: /deny\n" `## Installing urllib3 can be installed with [pip](https://pip.pypa.io): þash $ python -m pip install urllib3 `Alternatively, you can grab the latest source code from [GitHub](https://github.com/urllib3/urllib3): þash $ git clone https://github.com/urllib3/urllib3.git $ cd urllib3 $ pip install . `## Documentation urllib3 has usage and reference documentation at urllib3.readthedocs.io. ## Community urllib3 has a [community Discord channel](https://discord.gg/urllib3) for asking questions and collaborating with other contributors. Drop by and say hello 👋 ## Contributing urllib3 happily accepts contributions. Please see our [contributing documentation](https://urllib3.readthedocs.io/en/latest/contributing.html) for some tips on getting started. ## Security Disclosures To report a security vulnerability, please use the [Tidelift security contact](https://tidelift.com/security). Tidelift will coordinate the fix and disclosure with maintainers. ## Maintainers - [@sethmlarson](https://github.com/sethmlarson) (Seth M. Larson) - [@pquentin](https://github.com/pquentin) (Quentin Pradet) - [@illia-v](https://github.com/illia-v) (Illia Volochii) - [@theacodes](https://github.com/theacodes) (Thea Flowers) - [@haikuginger](https://github.com/haikuginger) (Jess Shapiro) - [@lukasa](https://github.com/lukasa) (Cory Benfield) - [@sigmavirus24](https://github.com/sigmavirus24) (Ian Stapleton Cordasco) - [@shazow](https://github.com/shazow) (Andrey Petrov) 👋 ## Sponsorship If your company benefits from this library, please consider [sponsoring its development](https://urllib3.readthedocs.io/en/latest/sponsors.html). ## For Enterprise Professional support for urllib3 is available as part of the [Tidelift Subscription][1]. Tidelift gives software development teams a single

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Package Info

Project URL

https://pypi.org/project/urllib3/

Package Download URL

https://files.pythonhosted.org/packages/e4/e8/6ff5e6bc22095cfc59b6ea711b687e2b7ed4bdb373f7eeec370a97d7392f/urllib3-1.26.20.tar.gz

Dependency Path

ssh://git@github.com/splunk/splunksdc.git > requests > urllib3, azure-core > requests > urllib3, azure-eventhub > azure-core > requests > urllib3, azure-identity > azure-core > requests > urllib3, azure-identity > msal > requests > urllib3, azure-identity > msal-extensions > msal > requests > urllib3, requests > urllib3, splunktalib > requests > urllib3, splunktalib > urllib3, splunktaucclib > urllib3

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None

zipp 3.23.0

pip+zipp$3.23.0

Transitive

Description

Backport of pathlib-compatible object wrapper for zip files

Package Info

Project URL

https://pypi.org/project/zipp/

Package Download URL

https://files.pythonhosted.org/packages/e3/02/0f2892c661036d50ede074e376733dca2ae7c6eb617489437771209d4180/zipp-3.23.0.tar.gz

Dependency Path

opentelemetry-api > importlib-metadata > zipp, opentelemetry-exporter-otlp-proto-grpc > opentelemetry-api > importlib-metadata > zipp, opentelemetry-exporter-otlp-proto-grpc > opentelemetry-exporter-otlp-common > opentelemetry-sdk > opentelemetry-semantic-conventions > opentelemetry-api > importlib-metadata > zipp, opentelemetry-exporter-otlp-proto-grpc > opentelemetry-sdk > opentelemetry-semantic-conventions > opentelemetry-api > importlib-metadata > zipp, opentelemetry-sdk > opentelemetry-api > importlib-metadata > zipp, opentelemetry-sdk > opentelemetry-semantic-conventions > opentelemetry-api > importlib-metadata > zipp, solnlib > opentelemetry-api > importlib-metadata > zipp, solnlib > opentelemetry-sdk > opentelemetry-semantic-conventions > opentelemetry-api > importlib-metadata > zipp, splunktaucclib > solnlib > opentelemetry-api > importlib-metadata > zipp, splunktaucclib > solnlib > opentelemetry-sdk > opentelemetry-semantic-conventions > opentelemetry-api > importlib-metadata > zipp

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