
AWS-Satella

Release 2.0

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AWS SATELLA

1.1 Boto3 configuration

Make sure your `boto3` client is configured.

1.2 Using aws-satella

In any part of your code (but at least once per process) please call

`aws_satella.start_if_not_started(*args, **kwargs) → None`

Check if exporter thread has been started. If it has not, start it.

Raises `InitializationError` – could not initialize AWS Satella exporter

Parameters

- **args** – will be passed to `AWSSatellaExporterThread`'s constructor
- **kwargs** – will be passed to `AWSSatellaExporterThread`'s constructor

This will provide all of it's arguments to:

```
class aws_satella.AWSSatellaExporterThread(namespace: str, extra_dimensions: Optional[Dict[str, str]]
                                           = None, interval: Union[str, int] = '300s',
                                           max_send_at_once: int = 20, add_pid: Optional[str] =
                                           None, call_on_metric_upload_fails: Callable[[Exception],
                                           None] = <function AWSSatellaExporterThread.<lambda>>,
                                           call_on_discarded_metric:
                                           Callable[[satella.instrumentation.metrics.data.MetricData],
                                           None] = <function
                                           AWSSatellaExporterThread.<lambda>>>)
```

A AWS satella exporter thread. Is daemonic, so you don't need to terminate it when you quit.

Parameters

- **namespace** – AWS namespace to use
- **extra_dimensions** – extra dimensions to add to sent metrics
- **interval** – amount of seconds to wait between sending metrics. Defaults to 5 minutes. Can be also given in a form of expression, like '30m'
- **add_pid** – If this is set to a string this will add an extra dimension called that and having the value of this process' PID. This is done to monitor preforking services.

- **max_send_at_once** – maximum amount of metrics to send for a single call to AWS. Defaults to 20.
- **call_on_metric_upload_fails** – optional callable, to be called with an Exception instance when upload of the metrics fails
- **call_on_discarded_metric** – called with a discarded MetricData. Metrics will be discarded for having more than 10 dimensions (after update)

Which in turn may raise an exception during it's construction, namely:

class aws_satella.**InitializationError**

Exception raised when boto3 client cannot be configured

If you service preforks, set `add_pid` argument to, for example `pid`.

USAGE WITH DJANGO

To use aws-satella with Django, add the following to your `settings.py`:

```
MIDDLEWARE = [
    ...,
    'aws_satella.contrib.django.AWSSatellaMiddleware',
    ...
]

AWS_SATELLA_MIDDLEWARE_CONSTRUCTOR = {
    'namespace': 'YourAppNamespace',
    'add_pid': 'pid'
}
```

Basically all the parameters here will be passed as kwargs to `AWSSatellaExporterThread`.

Note that you still need to install and configure `django-satella-metrics` [separately](#).

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