
Apache Amaterasu (incubating) Documentation

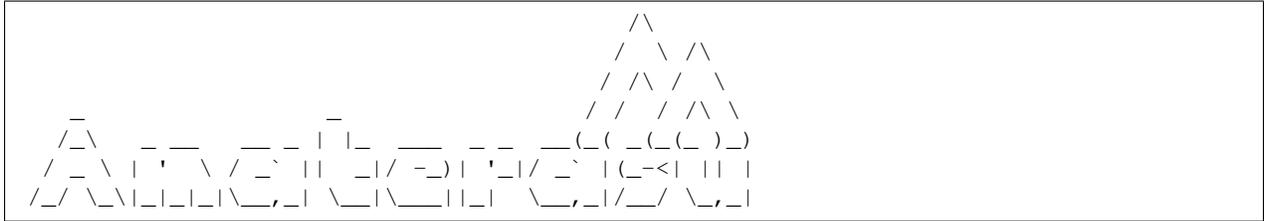
Release 0.2.0

Apache Amaterasu (incubating)

May 26, 2018

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Apache Amaterasu is an open-source, deployment tool for data pipelines. Amaterasu allows developers to write and easily deploy data pipelines, and clusters manage their configuration and dependencies.

CHAPTER 1

[Download](#)

For this preview version, we have packaged amaterasu nicely for you to just [download](#) and extract. Once you do that, you are just a couple of easy steps away from running your first job.

CHAPTER 2

Creating a dev/test Mesos cluster

We have also created a Mesos cluster you can use to test Amaterasu or use for development purposes. For more details, visit the [amaterasu-vagrant](#) repo

CHAPTER 3

Configuration

Configuring amaterasu is very simple. Before running amaterasu, open the `amaterasu.properties` file in the top-level amaterasu directory, and verify the following properties:

property	Description	Default value		zk	The ZooKeeper connection string to be used by amaterasu	192.168.33.11	master	The clusters' Mesos master	192.168.33.11	user	The user that will be used to run amaterasu	root
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CHAPTER 4

Running a Job

To run an amaterasu job, run the following command in the top-level amaterasu directory:

```
ama-start.sh --repo="https://github.com/shintoio/amaterasu-job-sample.git" --branch=  
↪ "master" --env="test" --report="code"
```

We recommend you either fork or clone the job sample repo and use that as a starting point for creating your first job.

Apache Amaterasu Developers Information

5.1 Building Apache Amaterasu

to build the amaterasu home dir (for dev purposes) run:

```
./gradlew buildHomeDir test
```

to create a distributable jar (clean creates the home dir first) run:

```
./gradlew buildDistribution test
```

5.2 Architecture

Amaterasu is an Apache Mesos framework with two levels of schedulers:

- The ClusterScheduler manages the execution of all the jobs
- The JobScheduler manages the flow of a job

The main classes in Amaterasu are listed below:

```
+-----+ +-----+
| ClusterScheduler | | Kami | |
|                 | |-->|   |
| Manage jobs:    | | Manages the jobs queue |
| Queue new jobs  | | and Amaterasu cluster |
| Reload interrupted jobs | +-----+
| Monitor cluster state |
+-----+
|
| +-----+
| | JobExecutor |
| |             |
+-----+
```

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