



NOTE: The Apache Aurora project has been moved into the Apache Attic. A fork led by members of the former Project Management Committee (PMC) can be found at <https://github.com/aurora-scheduler>

Apache Aurora lets you use an Apache Mesos cluster as a private cloud. It supports running long-running services, cron jobs, and ad-hoc jobs. Aurora aims to make it extremely quick and easy to take a built application and run it on machines in a cluster, with an emphasis on reliability. It provides basic operations to manage services running in a cluster, such as rolling upgrades.

To very concisely describe Aurora, it is like a distributed monit or distributed supervisor that you can instruct to do things like *run 100 of these, somewhere, forever*.

Features

Aurora is built for users *and* operators.

- User-facing Features:
 - Management of long-running services
 - Cron jobs
 - Resource quotas: provide guaranteed resources for specific applications
 - Rolling job updates, with automatic rollback
 - Multi-user support
 - Sophisticated DSL: supports templating, allowing you to establish common patterns and avoid redundant configurations
 - Dedicated machines: for things like stateful services that must always run on the same machines
 - Service registration: announce services in ZooKeeper for discovery by various clients
 - Scheduling constraints to run on specific machines, or to mitigate impact of issues like machine and rack failure
- Under the hood, to help you rest easy:
 - Preemption: important services can ‘steal’ resources when they need it

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- High-availability: resists machine failures and disk failures
 - Scalable: proven to work in data center-sized clusters, with hundreds of users and thousands of jobs
 - Instrumented: a wealth of information makes it easy to monitor and debug

When and when not to use Aurora

Aurora can take over for most uses of software like monit and chef. Aurora can manage applications, while these tools are still useful to manage Aurora and Mesos themselves.

However, if you have very specific scheduling requirements, or are building a system that looks like a scheduler itself, you may want to explore developing your own framework.

Companies using Aurora

Are you using Aurora too? Let us know, or submit a patch to join the list!

- Amperity
- Blue Yonder
- Boxever
- Criteo
- Electronic Arts
- Fitbit
- Foursquare
- Gutefrage.net
- Houghton Mifflin Harcourt
- Kakao
- Magine TV
- Medallia
- Oscar Health
- PayPal
- Sabre Labs
- TellApart
- Twitter
- Uber

Getting Help

If you have questions that aren't answered in our documentation, you can reach out to one of our mailing lists. We're also often available in Slack: #aurora on mesos.slack.com. Invites to our slack channel may be requested via mesos-slackin.herokuapp.com

You can also file bugs/issues in our Github repo.

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