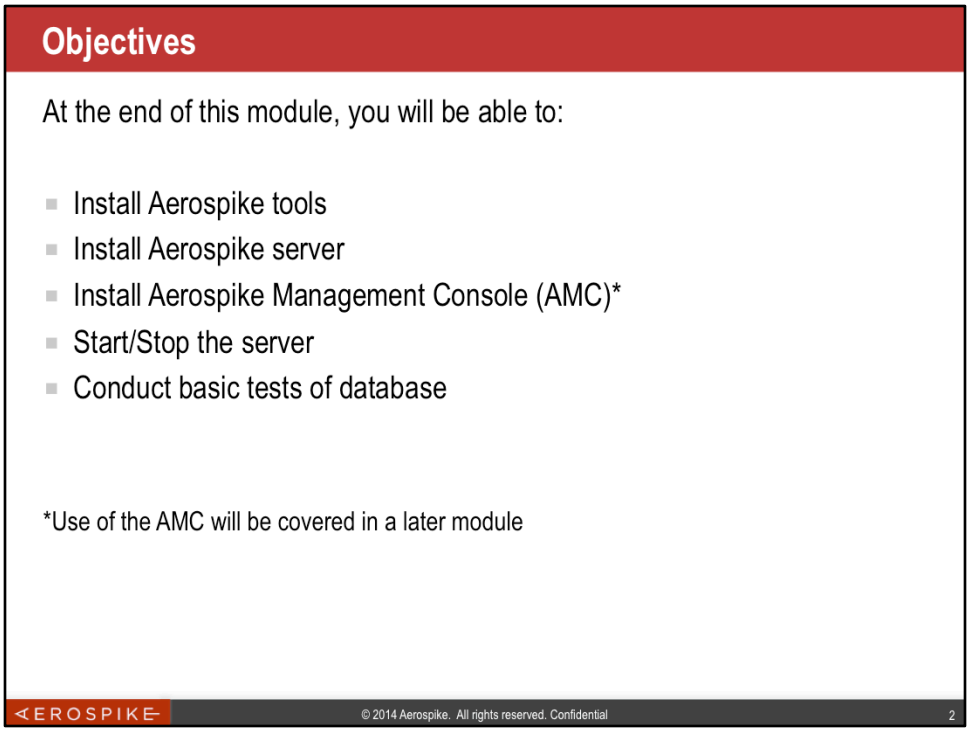

AEROSPIKE
IN-MEMORY + NOSQL + ACID
AEROSPIKE DEPLOYMENT
INSTALLATION
Aerospike aer . o . spike [air-oh- spahyk]
noun, 1. tip of a rocket that enhances speed and stability



This module of the Aerospike training is for just the basics of installing the Aerospike server and Aerospike Management Console.

While this may seem like a small step, is is crucial to testing new environments and ensuring basic functionality.

You can often debug basic installation issues with the default configuration.

Installing Aerospike Server

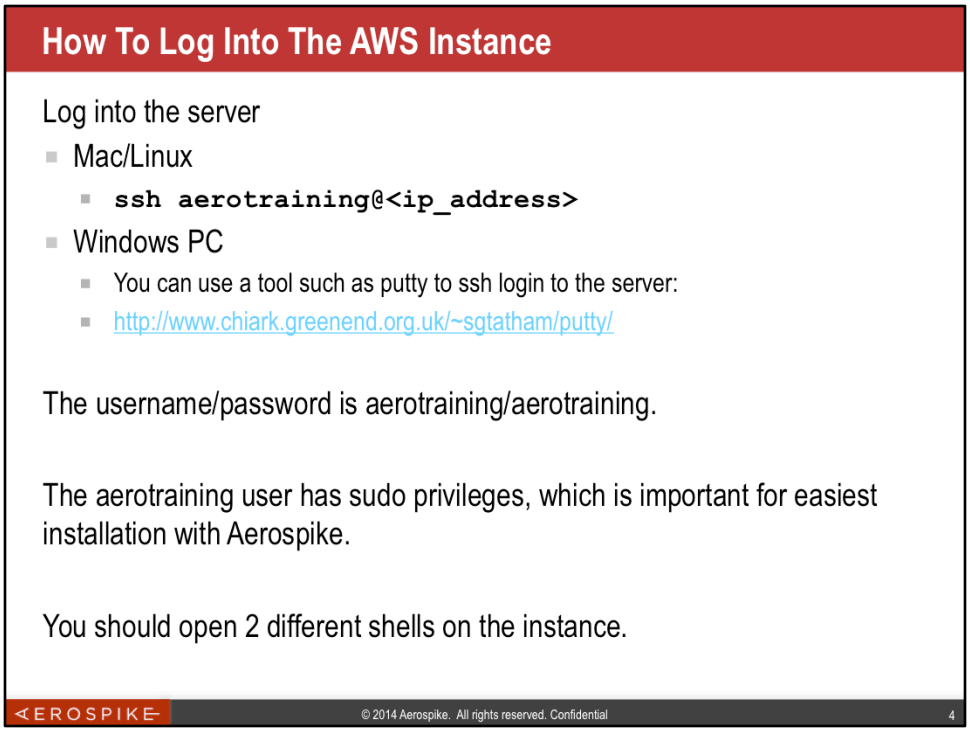
For this class, Aerospike has prepared an Amazon EC2 instance for your use.

These instances have pre-loaded the following:

- Aerospike Java client
- Aerospike Python client
- Aerospike C client
- Aerospike data loader
- Oracle JDK 1.7
- maven
- lua
- git

We will be installing the server as a hands-on exercise

You may not need all of these, but they are there for your convenience.

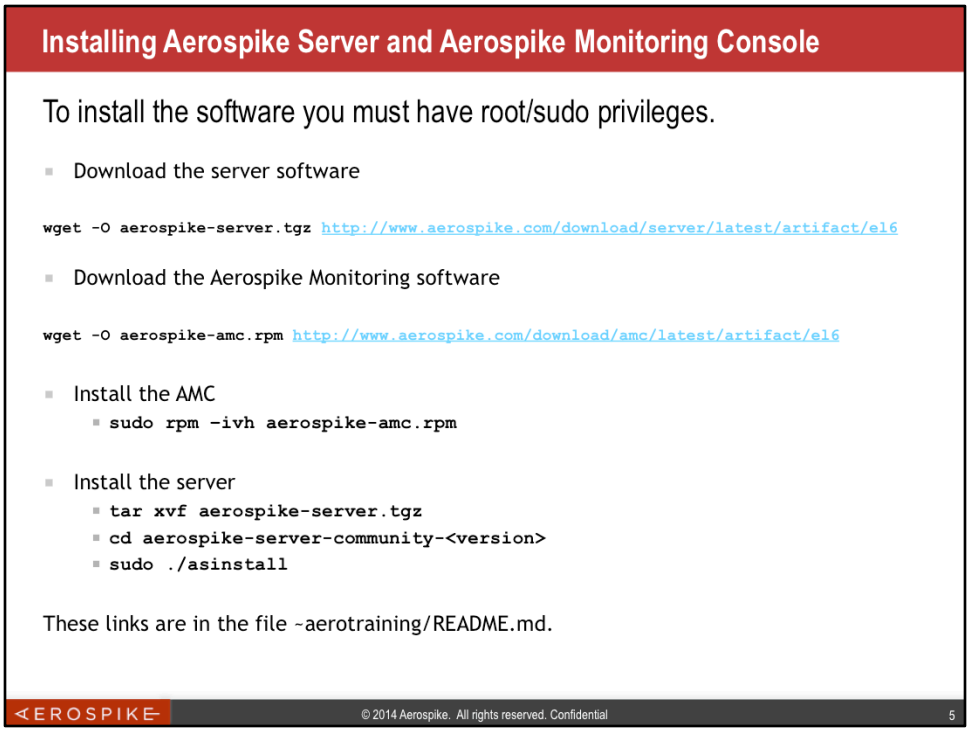


You each should have your own IP address to log into your own instance. You can use whichever tool you are comfortable with to log in. You will need basic Linux skills for this class.

Sudo/root is required for installing/starting the Aerospike database when using rpm or deb. You can also download and use the prebuilt anylinux binaries, which do not require those permissions. Settings for this are a little different and not covered in this module.

The any linux editions can be found here:

http://www.aerospike.com/docs/operations/install/linux/other/



The URLs for the latest version remain static, so these URLs will get the latest version of the both the database and the Aerospike Management Console.

It is NOT required to install the AMC as the same node as the Aerospike Server, but it is useful to install it here for the class.


Server Operation
AEROSPIKE
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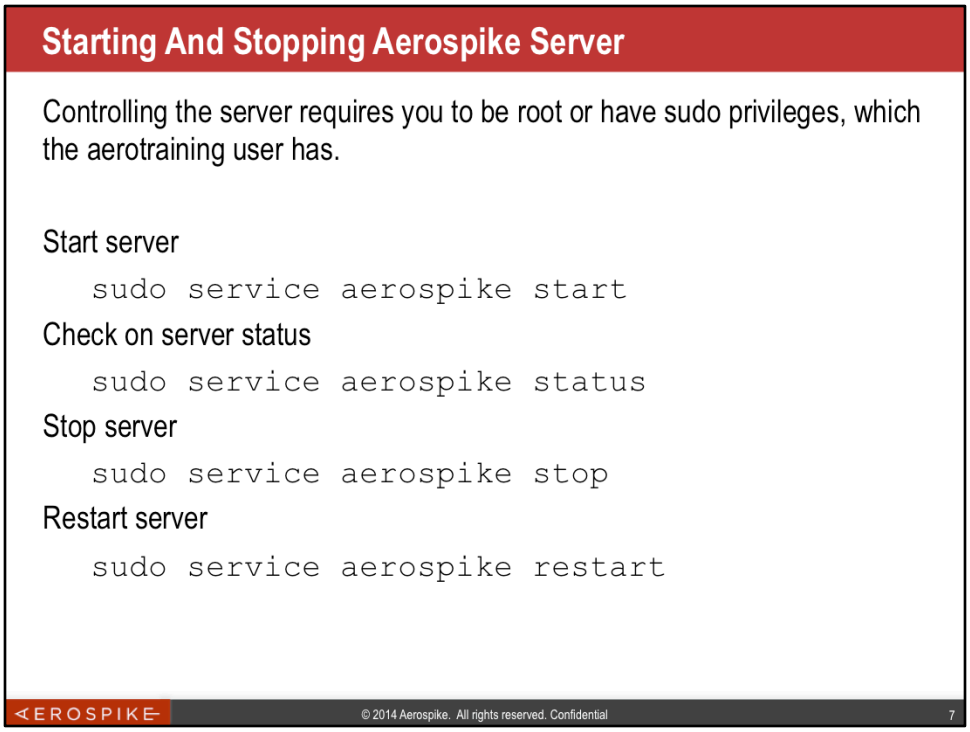
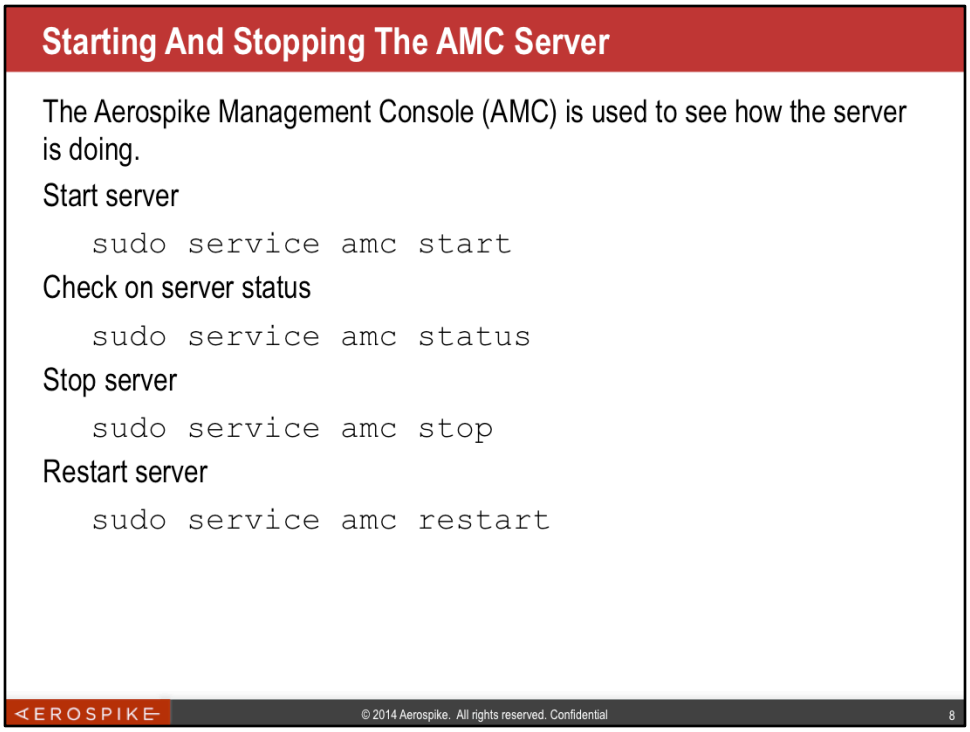
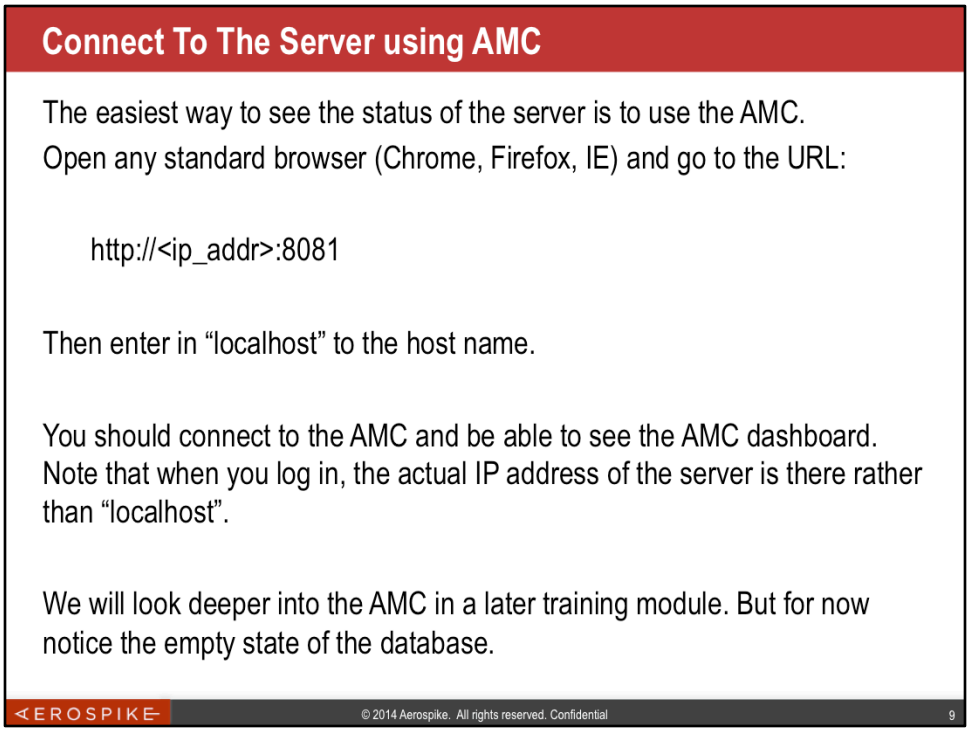


While it is possible to put this into the server startup scripts, Aerospike does not recommend you do this. There are cases where you want the Linux instance to come up, but not the Aerospike server.

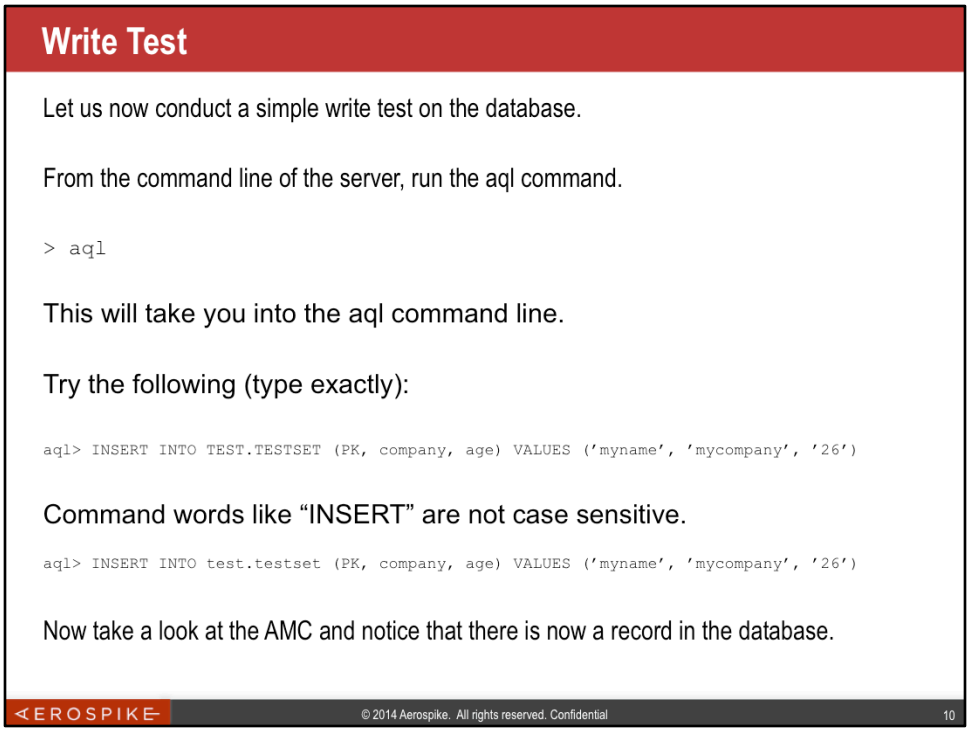
This could be to allow specific actions prior to restarting the server. For example, if a server was down for a long time, then the data on the disks may be dated and reconciling this with the new data on the other nodes may take a long time. It may take much less time to rebalance the data from the other nodes already in the cluster. This involves deleting the data on disk and restarting the server.



The AMC is the fastest and easiest way to see how the cluster is doing.

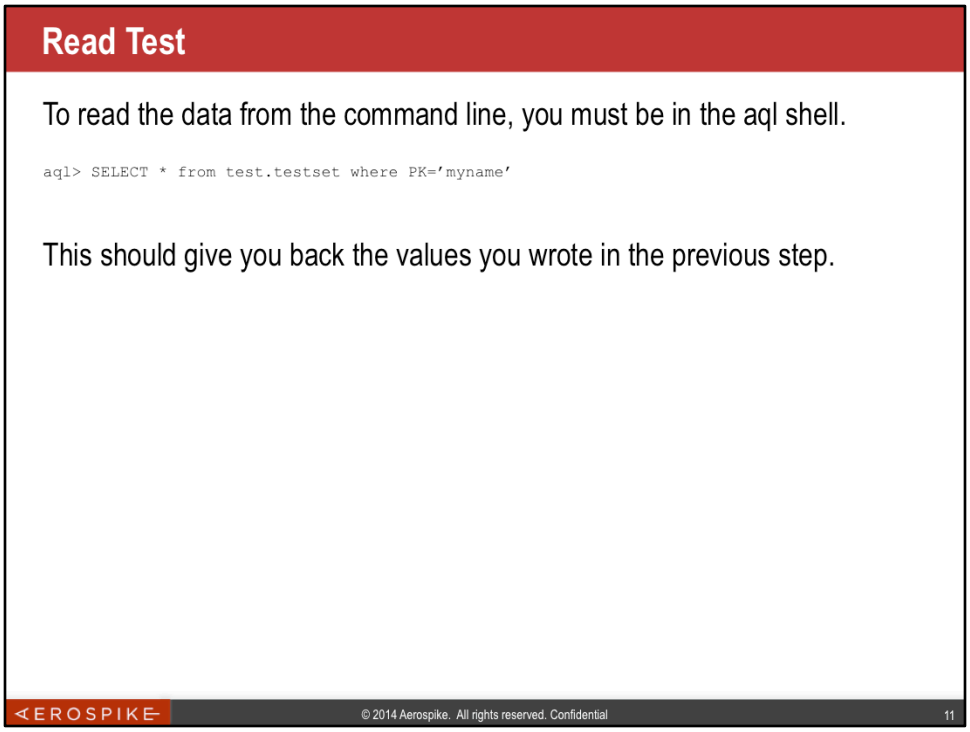


The instance has been configured to allow connections from the Internet to the AMC. When installing the AMC, make sure that the appropriate port is opened.



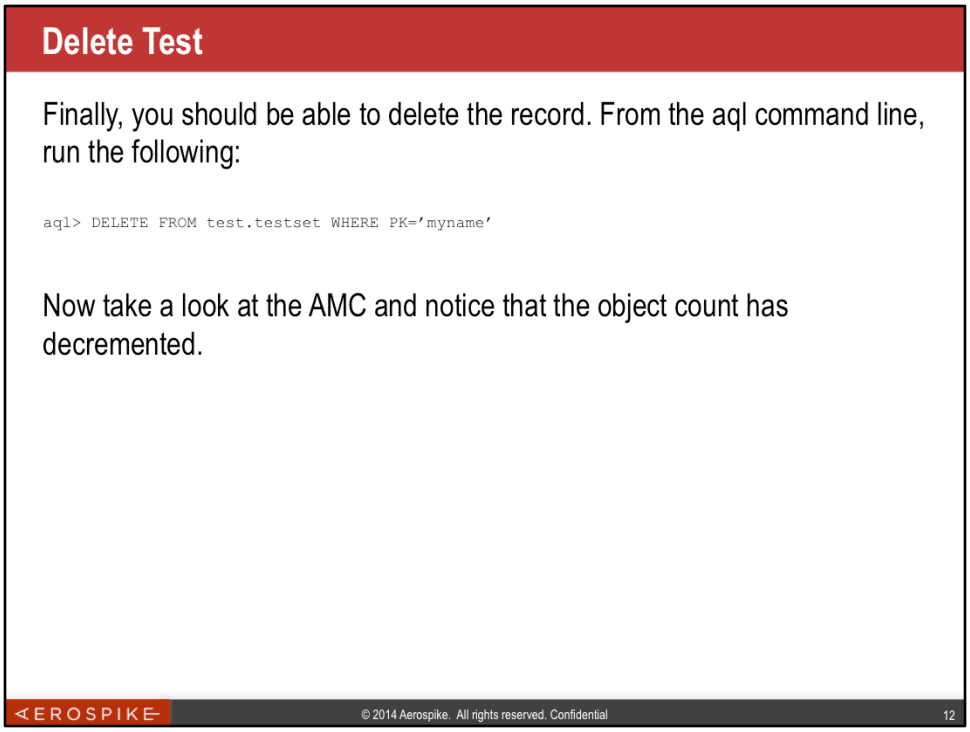
While not a sophisticated use of the server, using aql to run this test establishes connectivity to the database.

We will go into more of the use of the AQL in another module.



Note very carefully that the key is not visible here. Aerospike does NOT store the key in the database by default.

If having the key itself is necessary for your application, you should make sure that it is stored as a value.



The AMC should update all metrics within seconds. A failure to do so implies a communication problem.

Summary

What you have done to this point:

- Installed the latest version of Aerospike DB and associated tools.
- Installed the latest version of the AMC.
- Learned how to start/stop/check the status of the DB and the AMC.
- Learned how to look at an overview of the health of the DB with the AMC.
- Learned how to write/read/delete a test object.

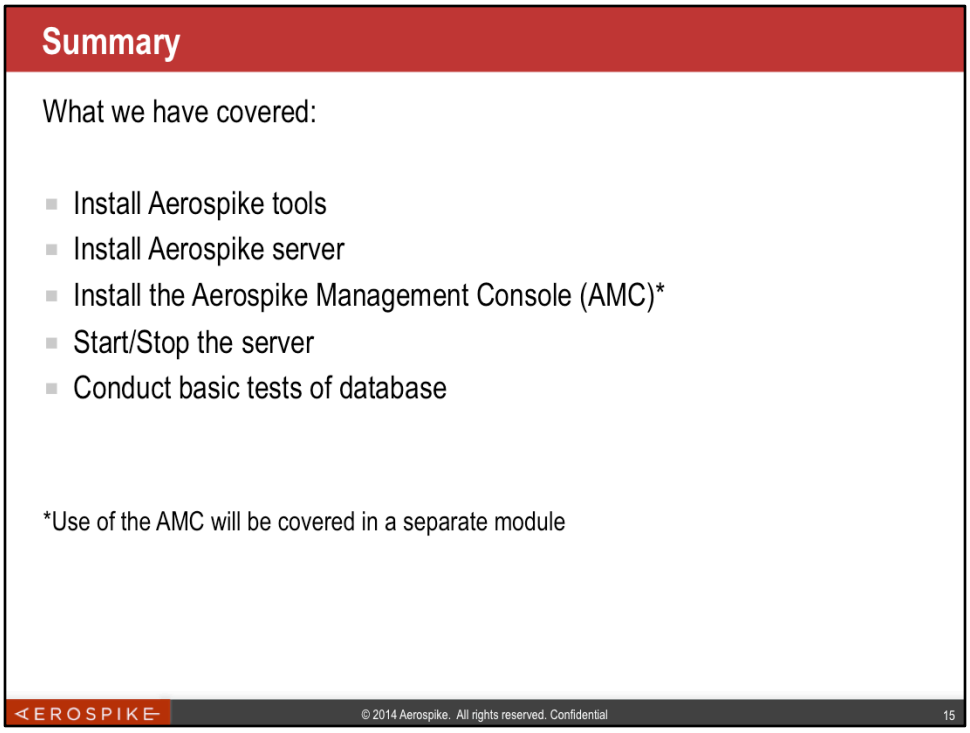
Logs

It is always helpful to be able to look at the logs of the server. You MUST have root/sudo privileges to see the logs in the default locations:

```
/var/log/aerospike/aerospike.log
```

It is often useful to keep a window open with a tail of the log:

```
sudo tail -f /var/log/aerospike/aerospike.log
```



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