

# Ampere Pod 1

## Overview

The Ampere Pod consists of 3 Ampere HR330A servers with the following specifications per server:

	Ampere HR330A
CPU	1x 32 core 3.3 GHz Ampere ARMv8 64-bit Processor
RAM	8x 16GB DDR4-DIMM
Storage	1x 480GB SSD
Networking	ns 2x 25Gbe SFP+ (connected) 1x 1Gbe BASE-T (not connected) 1x IPMI / Lights-out Management

## Usage & Users

This information can now be found on the Akraino dashboard. Check the Shared Community Lab page for more information.

## Server Access

For the meantime when you request access to the Akraino Pods at UNH-IOL we will ask that you send us your public ssh key so we can add it to the root users of those machines.

If you wish to have your own user we can get that setup, but it is much quicker and easier if you just stick with the root user.

## IPMI Access

When booking a pod, the Akraino dashboard will provide IPMI credentials via email.

You can access an IPMI interface like the example below:

[ampere1-ampere1-ipmi.akr.iol.unh.edu](https://ampere1-ampere1-ipmi.akr.iol.unh.edu)

Then enter the username and password provided from the file in `/opt` and now you can manage the system on your and will even be able to add your own public keys in the event of a reinstall of the machine.

If you have any issues with any of the IPMI interfaces please email [akraino-lab@iol.unh.edu](mailto:akraino-lab@iol.unh.edu) and we will assist you in anyway we can.

### KVM Note:

If the java-based KVM client does not display any video or keeps showing "Reconnect is in progress..." try restarting the KVM service on the server via the web interface:

- Configuration Services
- Select the "kvm" row
- Click on "Modify" button
- Uncheck state checkbox and apply changes
- Reopen kvm config, re-activate service and apply changes

## Networking

Network	IP Network	VLAN ID	Description
IPMI / Management	10.11.5.0/24 GW: 10.11.5.1	3005	Connections to all IPMI interfaces on each server and the switch management interface
Public	10.11.6.0/24 GW: 10.11.6.1	3006	Public network (able to reach the Internet), available to each server.

[blocked URL](#)

# Servers and Switches

Server Name	IPMI Address	IPMI VLAN ID	Public Network Address	Public Network VLAN ID	Switch Port(s)	OS Installed
ampere1-ampere1	10.11.5.11	3005	10.11.6.11	3006	Cisco TOR: Left 25Gbe Port 41, Right 25Gbe Port 42	CentOS 7.6
ampere1-ampere2	10.11.5.12	3005	10.11.6.12	3006	Cisco TOR: Left 25Gbe Port 43, Right 25Gbe Port 44	CentOS 7.6
ampere1-ampere3	10.11.5.13	3005	10.11.6.13	3006	Cisco TOR: Left 25Gbe Port 45, Right 25Gbe Port 46	CentOS 7.6
ampere1-jumphost	10.11.5.14	3005	10.11.6.14	3006	Cisco TOR: Left 25Gbe Port 33	

# Usage

This POD is used for Radio Edge Cloud blueprint. Refer to additional [blueprint specific information](#).

To make the CI/CD work, we set up Jenkins master in Ampere Server 1, Jenkins slave Ampere Server 2 and 3. The CI work is recorded in



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