Unicycle Pod

Overview

The Unicycle Pod consist of 2x Dell R740 3x HPE ProLiant DL380 Gen10 and 2x Intel LWF2208IR540605

	Dell R740	HPE ProLiant DL380 Gen10	Intel LWF2208IR540605
CPU	2x Intel Xeon Gold 6152 @ 2.10 GHz	2x Intel Xeon Gold 6152 @ 2.10 GHz	2x Intel Xeon Gold 6140 @ 2.30 GHz
RAM	12x32GB ECC DIMM	24x16GB RDIMM	16x16GB ECC DIMM
Storage	4x 480 GB SSD 6x 2.5 TB HDD	6x 2.4 TB HDD 2x 480 GB SSD	2x 4TB NVMe SSD
Network	2x 10/Gbe SFP (connected)	4x 10/Gbe SFP	2x 10/Gbe SFP (connected) 2x 40/Gbe QSFP (coming soon)

Server Access

Make sure you upload a public SSH key to your account on the Akraino dashboard. If you don't, you will not be able to access your hosts!

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 in a web browser like the example below:

unicycle-dell1-ipmi.akr.iol.unh.edu

Then enter the username and password from the file provided to you and now you can manage the system 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 and we will assist you in anyway we can.

Networking

Network	IP Network	VLAN ID	Description
IPMI / Management	10.11.1.0/24 GW: 10.11.1.1	3001	Connections to all IPMI interfaces on each server and the switch management interface
Public	10.11.2.0/24 GW: 10.11.2.1	3002	Public network (able to reach the Internet), available to each server.

blocked URL

Servers

Server Name	IPMI Address	IPMI VLAN ID	Public Network Address	Public Network VLAN ID	Switch Port(s)	Serial Connections	OS Installed	Machine Type
unicycle-dell1	10.11.1.11	3001	10.11.2.11	3002	**unicycle-edgecore1:** Far left 10Gbe Port 1 Breakout 1, middle left 10Gbe Port 1 Breakout 2 **unicycle-edgecore2:** Middle right 10Gbe Port 1 Breakout 1, far right 10Gbe Port 1 Breakout 2	Async 1/0	CentOS 8	Dell R740
unicycle-dell2	10.11.1.12	3001	10.11.2.12	3002	**unicycle-edgecore1:** Far left 10Gbe Port 1 Breakout 3, middle left 10Gbe Port 1 Breakout 4 **unicycle-edgecore2:** Middle right 10Gbe Port 1 Breakout 3, far right 10Gbe Port 1 Breakout 4	Async 1/1	CentOS 8	Dell R740
unicycle-hpe1	10.11.1.13	3001	10.11.2.13	3002	**unicycle-edgecore1:** Far left 10Gbe Port 2 Breakout 1, middle left 10Gbe Port 2 Breakout 2 **unicycle-edgecore2:** Middle right 10Gbe Port 2 Breakout 1, far right 10Gbe Port 2 Breakout 2	Async 1/2	CentOS 8	HPE ProLiant DL380 Gen10

unicycle-hpe2	10.11.1.14	3001	10.11.2.14	3002	**unicycle-edgecore1:** Far left 10Gbe Port 2 Breakout 3, middle left 10Gbe Port 2 Breakout 4 **unicycle-edgecore2:** Middle right 10Gbe Port 2 Breakout 3, far right 10Gbe Port 2 Breakout 4	Async 1/3	CentOS 8	HPE ProLiant DL380 Gen10
unicycle-hpe3	10.11.1.15	3001	10.11.2.15	3002	**unicycle-edgecore1:** Far left 10Gbe Port 3 Breakout 1, middle left 10Gbe Port 3 Breakout 2 **unicycle-edgecore2:** Middle right 10Gbe Port 3 Breakout 1, far right 10Gbe Port 1 Breakout 2	Async 1/4	CentOS 8	HPE ProLiant DL380 Gen10
unicycle-intel1	10.11.1.16	3001	10.11.2.16	3002	**unicycle-edgecore1:** Left 10Gbe Port 3 Breakout 3, Left 40Gbe Port 4 **unicycle-edgecore2:** Right 10Gbe Port 3 Breakout 4, Right 40Gbe Port 4	Async 1/5	CentOS 8	Intel LWF2208IR5 40605
unicycle-intel2	10.11.1.17	3001	10.11.2.17	3002	**unicycle-edgecore1:** Left 10Gbe Port 3 Breakout 4, Left 40Gbe Port 5 **unicycle-edgecore2:** Right 10Gbe Port 3 Breakout 3, Right 40Gbe Port 5	Async 1/6	CentOS 8	Intel LWF2208IR5 40605

Switch Name	Mgmt Address	VLAN ID	Serial Connection	OS Installed
unicycle-edgecore1	10.11.1.8	3001	Async 2/1	ONL
unicycle-edgecore2	10.11.1.9	3001	Async 2/0	ONL