



OOL OPNFV Testbed

Release brahmaputra.1.0 (f94c874)

OPNFV

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LAB: OOL OPNFV TESTBED

1.1 Introduction

Okinawa Open Laboratory (OOL) provides the following facilities for OPNFV testing. The testlab is now located only at Okinwa in Japan.

1.2 Lab Resources

POD Name	Project(s)	Project Lead(s)	Email(s)	POD Role	Status	Notes
ool-pod1				CI stable	Available	
ool-virtual1	Doctor	Ryota Mibu	r-mibu@cq.jp.nec.com	CI review	Assigned	

1.3 Acceptable Usage Policy

These resources provided to OPNFV are free to use by any OPNFV contributor or committer for the purpose of OPNFV approved activities by permission of the operator, but shall be used for CI, infra setup/configuration and troubleshooting purposes.

1.4 Remote Access Infrastructure

OOL provide VPN(OpenVPN) to connect this testlab.

1.5 Remote Access Procedure

Access to this environment can be granted by sending a e-mail to: TBD

subject: opnfv_access_ool

Following information should be provided in the request:

- Full name
- e-mail
- Phone
- Organization

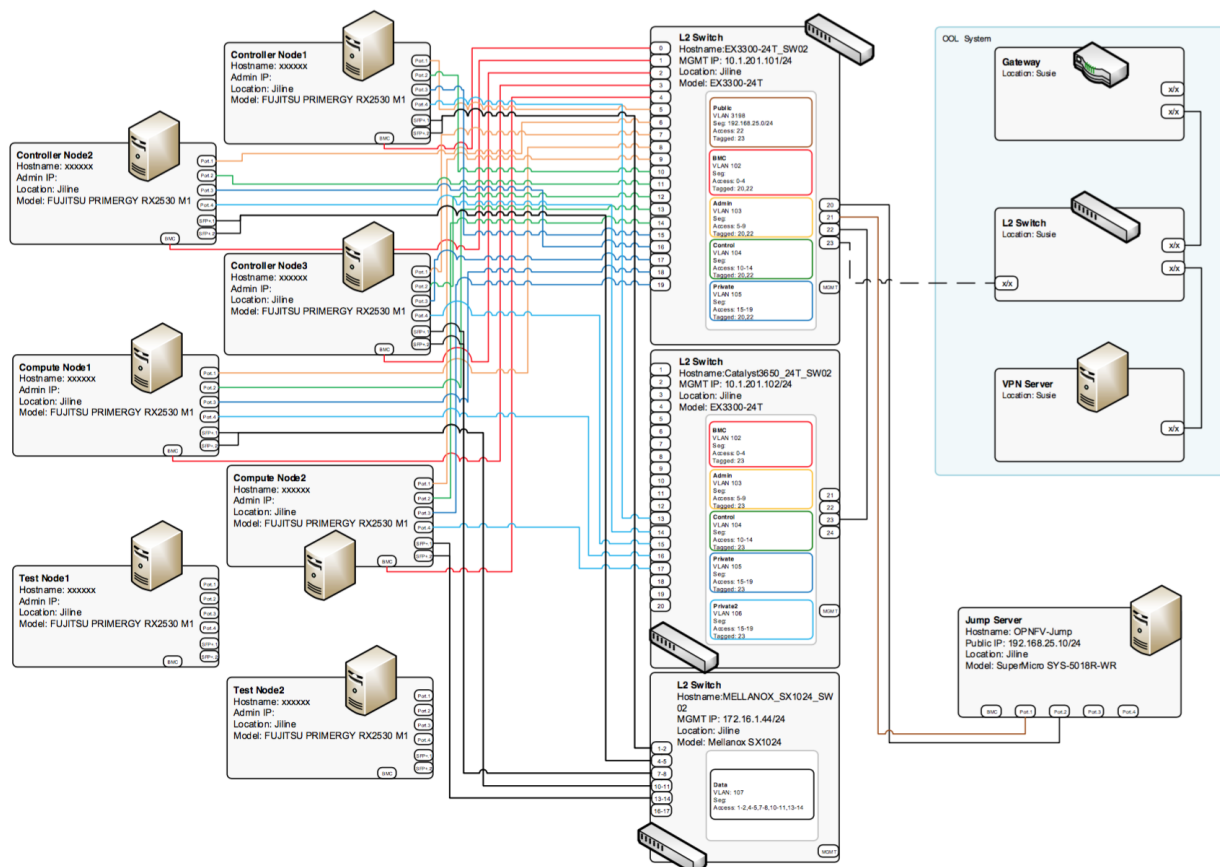
- Resources required
- How long is access needed
- PGP public key
- SSH public key

Granting access normally takes 2-3 business days.

Detailed access descriptions will be provided with your access grant e-mail.

1.6 Lab Documentation

1.7 Lab Topology



POD: OOL-POD1

2.1 Introduction

This is a physical POD deployed by Fuel installer (Brahmputra).

2.2 Additional Requirements

2.3 Server Specifications

Jump Host

Hostname	Vendor	Model	Serial Number	CPUs	Memory	Storage
OPNFV-jump	SuperMicro	SYS-5018R-WR	.	E5-2630v3 x1	32 GB	SATA 7.2krpm 2TB x1

Hostname	Lights-out network (IPMI): IP/MAC, U/P	1GbE: NIC#/IP MAC/VLAN/Network	10GbE: NIC#/IP MAC/VLAN/Network	Notes
OPNFV-jump	.	IF0: 0c:c4:7a:6c:a2:b2 VLAN untagged Public IF1: 0c:c4:7a:6c:a2:b3 VLAN 10{2-5} Admin/Mgmt/Private		NIC Model: Intel I350

Compute Nodes

Hostname	Vendor	Model	Serial Number	CPUs	Memory	Storage
node-9	FUJITSU	RX2530 M1	.	E5-2630v3 x1	32 GB	SATA 7.2krpm 2TB x2 SSD 100GB x1
node-10	FUJITSU	RX2530 M1	.	E5-2630v3 x1	32 GB	SATA 7.2krpm 2TB x2 SSD 100GB x1
node-11	FUJITSU	RX2530 M1	.	E5-2630v3 x1	32 GB	SATA 7.2krpm 2TB x2 SSD 100GB x1
node-12	FUJITSU	RX2530 M1	.	E5-2630v3 x1	32 GB	SATA 7.2krpm 2TB x2 SSD 100GB x1

Hostname	Lights-out network (IPMI): IP/MAC, U/P	1GbE: NIC#/IP MAC/VLAN/Network	10GbE: NIC#/IP MAC/VLAN/Network	Notes
node-9	•	IF0: 90:1b:0e:6b:e8:a8 VLAN untagged Admin IF1: 90:1b:0e:6b:e8:a9 VLAN untagged Mgmt IF2: 90:1b:0e:6b:e8:aa VLAN untagged Public IF3: 90:1b:0e:6b:e8:ab VLAN untagged Private	IF4: 90:1b:0e:6d:09:71 VLAN untagged Storage IF5: 90:1b:0e:6d:09:72 VLAN untagged Storage	NIC Models: (1GbE) Emulex Skyhawk (10GbE) Intel 82599E
node-10	•	IF0: 90:1b:0e:6b:e3:00 VLAN untagged Admin IF1: 90:1b:0e:6b:e3:01 VLAN untagged Mgmt IF2: 90:1b:0e:6b:e3:02 VLAN untagged Public IF3: 90:1b:0e:6b:e3:03 VLAN untagged Private	IF4: 90:1b:0e:6d:09:5f VLAN untagged Storage IF5: 90:1b:0e:6d:09:60 VLAN untagged Storage	NIC Models: (1GbE) Emulex Skyhawk (10GbE) Intel 82599E
node-11	•	IF0: 90:1b:0e:6b:e5:b4 VLAN untagged Admin IF1: 90:1b:0e:6b:e5:b5 VLAN untagged Mgmt IF2: 90:1b:0e:6b:e5:b6 VLAN untagged Public IF3: 90:1b:0e:6b:e5:b7 VLAN untagged Private	IF4: 90:1b:0e:6d:09:6f VLAN untagged Storage IF5: 90:1b:0e:6d:09:70 VLAN untagged Storage	NIC Models: (1GbE) Emulex Skyhawk (10GbE) Intel 82599E
node-12	•	IF0: 90:1b:0e:6b:e2:bc VLAN untagged Admin IF1: 90:1b:0e:6b:e2:bd VLAN untagged Mgmt IF2: 90:1b:0e:6b:e2:be VLAN untagged Public IF3: 90:1b:0e:6b:e2:bf VLAN untagged Private	IF4: 90:1b:0e:6d:08:31 VLAN untagged Storage IF5: 90:1b:0e:6d:08:32 VLAN untagged Storage	NIC Models: (1GbE) Emulex Skyhawk (10GbE) Intel 82599E

Switches

Node	Hardware
Switch 1 (for each network except storage)	Juniper EX3300-24T
Switch 2 (for storage)	Mellanox SX1024

Subnet Allocations

Network name	Address	Mask	Gateway	VLAN id
Public	192.168.25.0	255.255.255.0	192.168.25.254	103
Fuel Admin	192.168.103.0	255.255.255.0	192.168.103.1	103
Fuel Mangement	192.168.104.0	255.255.255.0	192.168.104.1	104
Fuel Public	192.168.105.0	255.255.255.0	192.168.105.1	105
Fuel Private	192.168.106.0	255.255.255.0		Untagged
Fuel Storage	192.168.107.0	255.255.255.0		Untagged

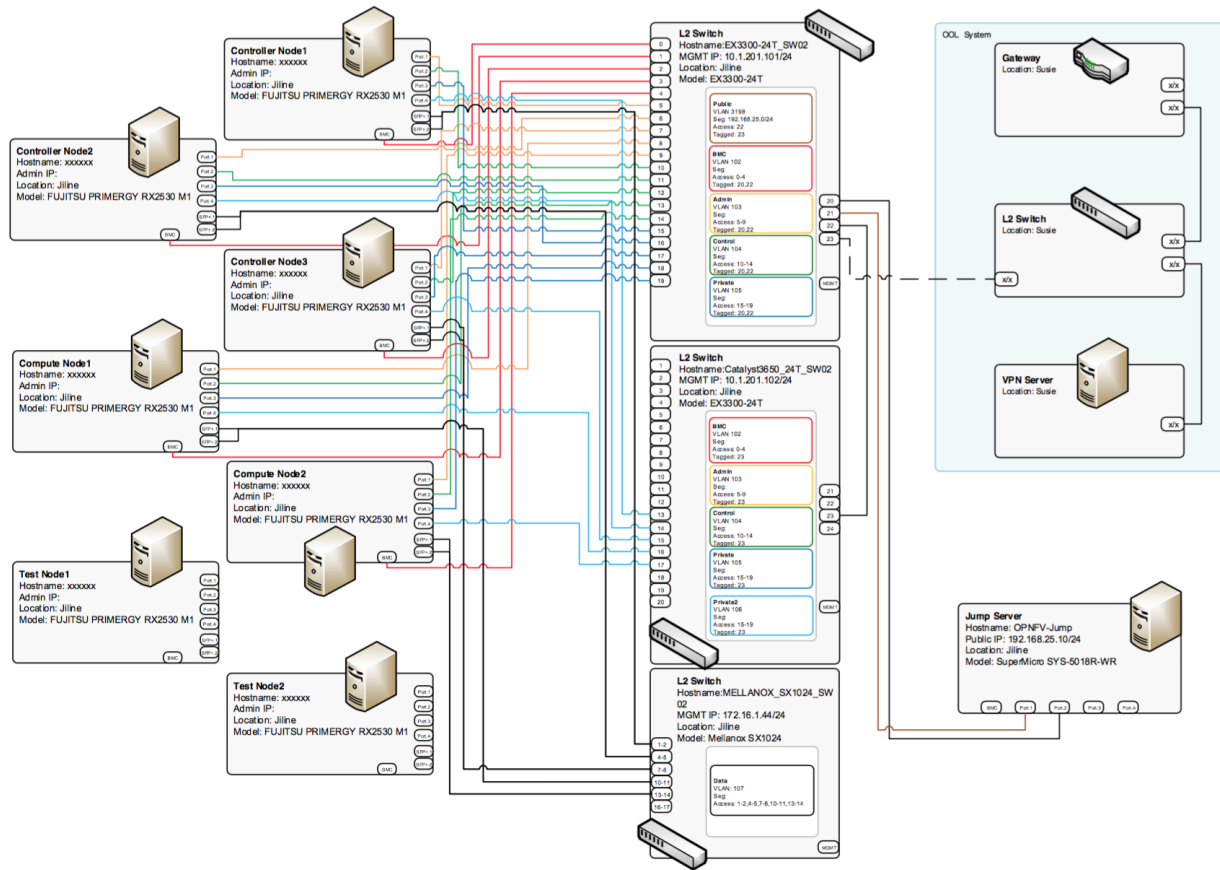
2.4 VPN Users

Name	Email	Project	Role	Notes
Ryota Mibu	r-mibu@cq.jp.nec.com	Doctor	Project Lead	

2.5 Firewall Rules

Port(s)	Service	Notes

2.6 POD Topology



POD: OOL-VIRTUAL1

3.1 Introduction

This is a virtual POD deployed by Apex installer (master/Colorado). This POD is built on one machine placed next to machines of the physical POD (ool-pod1). Controller and compute nodes are VM.

3.2 Additional Requirements

3.3 Server Specifications

Jump Host

See *Server Specifications*.

Compute Nodes

Machine	Hostname	Hardware
Virtual POD	ool-virtual1	FUJITSU PRIMERGY RX2530 M1

FUJITSU PRIMERGY RX2530 M1		
CPU	Xeon E5-2630v3	x1
RAM	32GB	.
HDD	SATA 7.2krpm 2TB	x2
SSD	100GB	x1
1000BASE-T	Emulex Skyhawk	x2
10GBASE-T	Intel 82599E	x2
BMC	.	x1

Hostname	IF#	BW	MAC	IF in OS	Role
ool-virtual1	IF0	1Gb	90:1b:0e:6b:e5:d8	eno1	Admin
ool-virtual1	IF1	1Gb	90:1b:0e:6b:e5:d9	eno2	Mgmt
ool-virtual1	IF2	1Gb	90:1b:0e:6b:e5:da	eno3	Public
ool-virtual1	IF3	1Gb	90:1b:0e:6b:e5:db	eno4	Private
ool-virtual1	IF4	1Gb	90:1b:0e:6d:08:f5	ens2f0	Storage
ool-virtual1	IF5	1Gb	90:1b:0e:6d:08:f6	ens2f1	Storage

Subnet Allocations in the host

Network name	Address	Mask	Gateway	VLAN id
Admin	192.0.2.0	255.255.255.0	192.168.103.1	Untagged
Public	192.168.37.0	255.255.255.0	192.168.105.1	Untagged
Private	11.0.0.0	255.255.255.0		Untagged
Storage	12.0.0.0	255.255.255.0		Untagged

3.4 VPN Users

Name	Email	Project	Role	Notes
Ryota Mibu	r-mibu@cq.jp.nec.com	Doctor	Project Lead	

3.5 Firewall Rules

Port(s)	Service	Notes

3.6 POD Topology

OOL INVENTORY FILE

```
import pod1_inventory.yaml
```