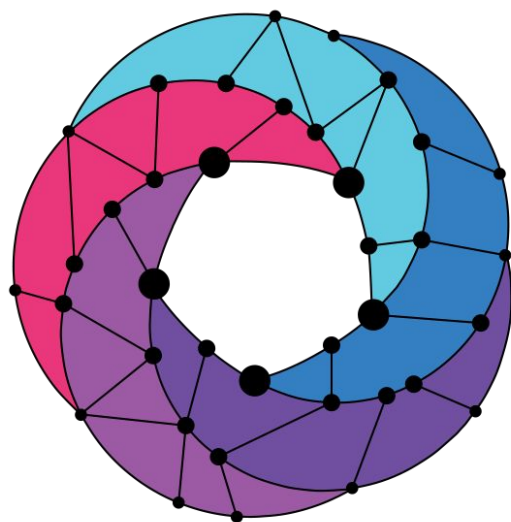




Open Source
MANO

OSM Hackfest – Session 9.2 VNF Onboarding to vCD

Mark Beierl (VMware)

VNF Onboarding Overview

- Procedure remains the same
 - Define day 0, 1, 2
 - VDU characteristics
 - Network requirements
- VNFD, NSD for OpenStack is valid for vCD

So, What is Different?

- Cloud image format
- OpenStack based on KVM uses QCOW2 format
- vCD and VMware Integrated Openstack use VMDK format
- vCD does not have a Glance client
- Tools provided in devops repo:
 - ovf_converter
 - ovf_uploader

Welcome to vCD

- This is not OpenStack
 - No OpenStack APIs
 - Open source libraries for interaction
 - pyvcloud
 - vcd_cli
- Similar concepts:
 - Tenants and organizations
 - Datacenters to represent regions or availability zones

Tenant Portal

- Datacenters
- Catalogs – repository of vApp templates
- vApp Templates – similar to glance images
- vApps – instances of virtual machines and networks

Datacenters

Virtual Datacenters

Environment

📍 Sites: 1

🏢 Organizations: 1

☁ Virtual Datacenters: 1

Running Applications

📄 VMs: 2

🔲 vApps: 3

☁ etsi

🌐 etsi,

📍 172.21.6.23

Applications

4

vApps

2 of 3

Running VMs

CPU

0 MHz

40 GHz reserved

Memory

136 MB

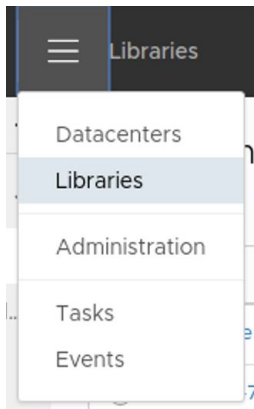
200 GB reserved

Storage

178 GB

0 MB allocated

Catalogs



Catalogs

NEW

	Name  	Version	Status	Shared
	bionic-server-cloudimg-a...	18	Ready	-
	CentOS-7	5	Ready	-
	ubuntu1604	2	Ready	-
	ubuntu1804	2	Ready	-
				

vApp Templates

vApp Templates

NEW

	Name ↑ ▼	Status ▼	Catalog ▼
☐	bionic-server-cloudimg-amd64	✓ Normal	 bionic-server-cloudimg-amd64
☐	CentOS-7	✓ Normal	 CentOS-7
☐	ubuntu1604	✓ Normal	 ubuntu1604
☐	ubuntu1804	✓ Normal	 ubuntu1804

Convert Images

- Installer available from devops
 - `devops/tools/OVF_Converter/install.sh`
- Conversion of .qcow2 to .vmdk
 - `ovf_converter ubuntu1804.qcow2`
- Upload to vCD
 - `ovf_uploader -u etsi -p password -o etsi \`
`-l https://172.21.6.23 ubuntu1804.ovf`

Deploy Sanity NS

```
osm ns-create --ns_name hf-basic \  
--nsd_name hackfest_basic-ns \  
--vim_account vCD \  
--ssh_keys ~/.ssh/id_rsa.pub \  
--config \  
'{vld: [ {name: mgmtnet, vim-network-name: Org-Direct-Net} ] }'
```

View Deployed Service

Virtual Machine

ubuntu1804

Other (32-bit)

Powered on



 CPUs

1

Lease

6 Days

 Memory

1024 MB

VMware Tools



 Networks

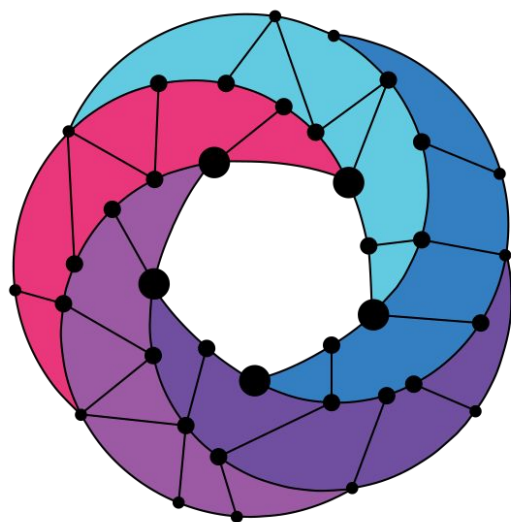
Org-Direct-Net

Snapshot

-

ACTIONS ▾

DETAILS



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