

Configure Foreman Server

install rhel6.5

change hostname to fqdn

```
sed -i -e "/^HOSTNAME=/d" /etc/sysconfig/network
echo "HOSTNAME=jh-dell-foreman.cloud.lab.eng.bos.redhat.com" >> /etc/sysconfig/network
```

disable selinux

```
sed -i -e "s/^SELINUX=.*/SELINUX=permissive/" /etc/selinux/config
```

```
sed -i -e "/^net.ipv4.ip_forward/d" /etc/sysctl.conf
echo "net.ipv4.ip_forward = 1" >> /etc/sysctl.conf
sysctl -p
```

```
lokit --trust eth1 --masq eth0
```

```
lokit --service http
lokit --service https
lokit --service dns
lokit --service tftp
lokit --port 8140:tcp
```

```
yum-config-manager --enable rhel-6-server-openstack-5.0-rpms \
    rhel-6-server-openstack-foreman-rpms \
    rhel-server-rhsc-6-rpms
```

```
yum -y install openstack-foreman-installer
```

```
init 6
```

FOREMAN_GATEWAY is provisioning interface when foreman acts as a gateway.

```
FOREMAN_PROVISIONING=true FOREMAN_GATEWAY=172.44.139.65 PROVISIONING_INTERFACE=eth1 ./foreman_server.sh 2>&1 | tee /root/
```

Configure OFI

Installation Media

Hosts → Installation media New Medium

Name	Red Hat Linux Server
Path	http://ra-ns1.cloud.lab.eng.bos.redhat.com/ks/dist/ks-rhel-\$arch-server-\$major-\$version
Operating System Family	Red Hat

Partition Tables

Hosts → Partition Tables New Partition Table

Operating Systems

Hosts → Operating systems New Operating System

- Operating System

Name	RedHat
Major version	7
Minor version	0
Description	RHEL 7
OS Family	Red Hat
Architectures	x86_64

- **Partition table**

Selected Items	OpenStack Disk Layout
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- **Installation Media**

Selected Items	Red Hat Linux Server
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Provisioning Templates

Hosts → Provisioning Templates

OpenStack KickStart Template

- **Association**

Applicable Operating Systems	RHEL 7.0
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OpenStack PXE Template

- **Association**

Applicable Operating Systems	RHEL 7.0
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Operating Systems

Hosts → Operating systems RHEL 7.0 * **Templates**

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provision	OpenStack Kickstart Template
PXELinux	OpenStack PXE Template

Networks

ulnrastructure → Subnets OpenStack

- **Subnet**

Name	OpenStack
Network address	172.44.139.0
Network mask	255.255.255.0
Gateway address	
Start of IP range	172.44.139.50
End of IP range	1723.44.139.70

deploying host

Hosts → New Host

- **Host**

Name	controller.example.org
Hostgroup	
Deploy on	Bare Metal
Environment	production
Puppet CA	jh-dell-foreman.example.org
Puppet Master	jh-dell-foreman.example.org

- **Network**

General Setting	Domain	example.org
General Setting	Realm	
Primary Interface	MAC address	c8:1f:66:65:33:a9
Primary Interface	Subnet	OpenStack
Primary Interface	IP Address	172.44.139.40

- **Operating System**

Architecture	x86_64
Operating System	RHEL 7.0
Build mode	checked
Media	Red Hat Linux Server
Partition table	OpenStack Disk Layout
Custom partition table	
Root password	password

- **Parameters**

- Satellite

spacewalk_type	site
spacewalk_host	ra-ns1.cloud.lab.eng.bos.redhat.com

- Subscription Manager

subscription_manager	true
subscription_manager_username	
subscription_manager_password	
subscription_manager_repos	rhel-server-rhsc1-6-rpms, rhel-6-server-rpms, rhel-6-server-openstack-5.0-rpms
subscription_manager_pool	8a85f987411bd9460141567ef7e21fc2 (virtual)
subscription_manager_pool	8a85f987411bd9460141567ef7ca1fab (physical)

Hammer Time

```
sed -i s/\(s*:per_page:s*\).*/1200/ /etc/hammer/cli_config.yml
```

Create Installtion Media

```
hammer medium create --name "Red Hat Hammer Medium Test" --os-family Redhat --path 'http://ra-ns1.cloud.lab.eng.bos.redhat.com/ks/dist/ks-rhel-$'
```

Create Operating System

description is name it appears as in gui. if left blank, name in gui is --name --major --minor

```
# hammer architecture list
---|-----
ID | NAME
---|-----
1  | x86_64
2  | i386
---|-----

[root@jh-dell-foreman ~]# hammer os create --name "TestHammerOS" --major 7 --minor 0 --description "Hammer Test" --family Redhat
```

Operating system created

```
# hammer os add-architecture --architecture x86_64 --name TestHammerOS
Architecture has been associated
```

```
# hammer partition-table list
```

ID	NAME	OS FAMILY
1	AutoYaST entire SCSI disk	Suse
2	AutoYaST entire virtual disk	Suse
3	AutoYaST LVM	Suse
4	FreeBSD	Freebsd
5	Jumpstart default	Solaris
6	Jumpstart mirrored	Solaris
10	Junos default fake	Junos
7	Kickstart default	Redhat
11	OpenStack Disk Layout	Redhat
9	Preseed custom LVM	Debian
8	Preseed default	Debian

```
# hammer os add-ptable --ptable-id 11 --name TestHammerOS
Partition table has been associated
```

Edit Subnets

```
]# hammer subnet update --name OpenStack --from 172.44.139.50 --to 172.44.139.70 --gateway 172.44.139.65
Subnet updated
```

```
# hammer template add-operatingsystem --id 37 --operatingsystem-id 6
Operating system has been associated
```

```
# hammer template add-operatingsystem --id 36 --operatingsystem-id 6
Operating system has been associated
```

```
# hammer os update --config-template-ids "37,36" --medium-ids 8 --id 6
Operating system updated
```

```
]# hammer os set-default-template --id 6 --config-template-id 37
[OpenStack Kickstart Template] was set as default provision template
```

```
# hammer os set-default-template --id 6 --config-template-id 36
[OpenStack PXE Template] was set as default PXELinux template
```

```
hammer host create \
  --name "jh-dell-test.example.org" \
  --build true \
  --enabled true \
  --managed true \
  --environment-id 1 \
  --domain-id 1 \
  --puppet-proxy-id 1 \
  --operatingsystem-id 3 \
  --ip "172.44.139.41" \
  --mac "c8:1f:66:65:33:b0" \
  --subnet-id 1 \
  --architecture-id 1 \
  --medium-id 8 \
  --partition-table-id 11 \
  --root-password changeme \
  --parameters subscription_manager=true,subscription_manager_username=sysengra,subscription_manager_password="24^gold",subscription_manager_pool=8a85f987411bd9460141567ef7ca1fab
```

```
hammer host set-parameter --host-id 3 --name subscription_manager_repos --value "rhel-server-rhsc1-6-rpms, rhel-6-server-rpms, rhel-6-server-opens
```

```
hammer template create --name HammerTemplateTest --type provision --operatingsystem-ids 6 --file anaconda-ks.cfg
```

```
hammer template create --name HammerTemplateTest --type provision --operatingsystem-ids 6 --file anaconda-ks.cfg
```

poc-controller

```
ignoredisk --only-use=sda
zerombr
bootloader --location=mbr --boot-drive=sda

clearpart --all --initlabel

part /boot/efi --fstype="efi" --ondisk=sda --size=200 --fsoptions="umask=0077,shortname=winnt"
part /boot --fstype=ext4 --size=1024
part pv.01 --size=79872
part pv.02 --size=1024 --grow

volgroup VolGroup --pesize=4096 pv.01
volgroup vg_vms --pesize=4096 pv.02

logvol / --fstype=ext4 --name=lv_root --vgname=VolGroup --size 30720
logvol /tmp --fstype=ext4 --name=lv_tmp --vgname=VolGroup --size 10240
logvol /var --fstype=ext4 --name=lv_var --vgname=VolGroup --size 20480
logvol swap --name=lv_swap --vgname=VolGroup --size 16384

logvol /store/data --fstype=ext4 --name=data --vgname=vg_vms --size 1 --grow
```

poc-compute

```
ignoredisk --only-use=sda
zerombr
bootloader --location=mbr --boot-drive=sda

clearpart --all --initlabel

part /boot/efi --fstype="efi" --ondisk=sda --size=200 --fsoptions="umask=0077,shortname=winnt"
part /boot --fstype=ext4 --size=1024
part pv.01 --size=1024 --grow

volgroup VolGroup --pesize=4096 pv.01

logvol / --fstype=ext4 --name=lv_root --vgname=VolGroup --size 30720
logvol /tmp --fstype=ext4 --name=lv_tmp --vgname=VolGroup --size 10240
logvol /var --fstype=ext4 --name=lv_var --vgname=VolGroup --size 20480
logvol swap --name=lv_swap --vgname=VolGroup --size 16384
```

pilot

```
ignoredisk --only-use=sda
zerombr
bootloader --location=mbr --boot-drive=sda

clearpart --all --initlabel

part /boot/efi --fstype="efi" --ondisk=sda --size=200 --fsoptions="umask=0077,shortname=winnt"
part /boot --fstype=ext4 --size=1024
part pv.01 --size=1024 --grow

volgroup VolGroup --pesize=4096 pv.01

logvol / --fstype=ext4 --name=lv_root --vgname=VolGroup --size 30720
logvol /tmp --fstype=ext4 --name=lv_tmp --vgname=VolGroup --size 10240
logvol /var --fstype=ext4 --name=lv_var --vgname=VolGroup --size 20480
logvol swap --name=lv_swap --vgname=VolGroup --size 16384
```

```
# hammer partition-table create --name "Dell Pilot Nodes" --os-family Redhat --file dell-pilot.part
Partition table created

# hammer partition-table create --name "Dell POC Controller Nodes" --os-family Redhat --file dell-poc-cont.part
Partition table created

# hammer partition-table create --name "Dell POC Compute Nodes" --os-family Redhat --file dell-poc-comp.part
Partition table created
```

NOTE add to foreman_server configure_epel_repo ⇒ false

```
class { foreman: db_type ⇒ mysql, custom_repo ⇒ true }
```

```
sed -i '/^class foreman./aconfigure_epel_repo ⇒ false,' /usr/share/openstack-foreman-installer/foreman_server.sh sed -i /read -p/d /usr/share/openstack-foreman-installer/foreman_server.sh
```

