

**RHEV 3.x Upgrade** ..... 3



# RHEV 3.x Upgrade

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.....

```
192.168.0.180  rhvm.local.domain  rhvm
192.168.0.190  nas.local.domain    nas

192.168.0.181  host1.local.domain  host1
192.168.0.182  host2.local.domain  host2
192.168.0.183  host3.local.domain  host3
192.168.0.184  host4.local.domain  host4
192.168.0.185  host5.local.domain  host5
```

```
[rhel6]
name=rhel6
baseurl=http://192.168.0.156/repo/rhel6/
enabled=1
gpgcheck=0
```

```
[rhev3.5]
name=rhev3.5
baseurl=http://192.168.0.156/repo/rhev3.5/
enabled=1
gpgcheck=0
```

```
## RHEL 7 Hypervisor
[rhev3.6host]
name=rhev3.6host
baseurl=http://192.168.0.156/repo/rhev3.6host/
enabled=1
gpgcheck=0
```

```
## RHEL 6 Manager
[rhev3.6manager]
name=rhev3.6manager
baseurl=http://192.168.0.156/repo/rhev3.6manager/
enabled=1
gpgcheck=0
```

```
chkconfig ntpdate on
chkconfig ntpd on
chkconfig cpuspeed off
chkconfig cups off
```

```

yum -y update
yum -y install vim unzip

### 1 ### RHEV-M Storage Domain
1.9 Host          NAS          (RHEL7          Selfhost
)
2.          RHEV-M NFS      9  NAS

- Global Maintenance mode set
- Manager Shutdown
[root@host1 ~]# hosted-engine --vm-shutdown
[root@host1 ~]# service ovirt-ha-broker stop
Stopping ovirt-ha-broker: [ OK ]
[root@host1 ~]# service ovirt-ha-agent stop
Stopping ovirt-ha-agent: [ OK ] ->

NAS      host
[root@host1 /]# mount nas:/data/nfs/3.5rhevms /mnt/

vdsms    host    NFS
[root@host1 ~]# su -s /bin/bash vdsms
bash-4.1$ cd /nfs
bash-4.1$ ls -al
total 12
drwxr-xr-x. 3 vdsms kvm 4096 Feb 11 15:14 .
dr-xr-xr-x. 27 root root 4096 Feb 11 19:33 ..
drwxr-xr-x. 6 vdsms kvm 4096 Feb 11 15:15 1a2ccd20-8884-489c-9732-
d4b3a115341a
-rwxr-xr-x. 1 vdsms kvm 0 Feb 11 19:56 __DIRECT_IO_TEST__
bash-4.1$ cp -rp * /mnt/

NAS      umount

hosted-engine          rhevm storage domain
[root@host1 ~]# vim /etc/ovirt-hosted-engine/hosted-engine.conf
...
storage=192.168.0.181:/nfs <-          NAS
...

self host 가          answers.conf
[root@host1 ~]# vim /etc/ovirt-hosted-engine/answers.conf
...
OVEHOSTED_STORAGE/storageDomainConnection=str:192.168.0.181:/nfs <-
NAS
...

host reboot

hosted-engine --vm-status          --vm-start

```

```

### 2 ### Self-Host 가
1. 7, 8 self-host 2, 3 가 (rhev-
hypervisor7-7.2-20160219.0.el6ev image )
Hypervisor
- IP Address
- SSH
- /etc/hosts
- Additional self host
- Web UI Maintenance mode 7 Cluster
- Hypervisor Retry

2. 7, 8 Maintenance mode

3. 가 7, 8 SelfHost
Manager VM 가
# subscription-manager repos --enable rhel-6-server-rhev-rpms
# yum install rhv-hypervisor7
WebUI 가
5~10

4. 7, 8 Active Maintenance mode
5. F2 CLI
# systemctl restart ovirt-ha-agent.service
# systemctl restart ovirt-ha-broker.service
6. 7, 8 Maintenance mode Active

-> Manager VM 가 7, 8 가
->
host1 hosted-engine --vm-shutdown manager shutdown
shutdown
host2 --vm-start

### 3 ###
RHEL 7
RHEL 7 rhv3.6host self-host

### 4 ### Manager 3.6 upgrade
가 RHEL7 RHEV-M 3.5 3.6 가
- rhel-x86_64-server-6-rhev-m-3.5
- rhel-x86_64-server-6-rhev-m-3.6
- # yum update rhvm-setup
- # engine-setup

```

----- Physical Manager

```
1. Global Maintenance mode
2. SPM hosted-engine          hypervisor
3. manager backup
4. hosted-engine --vm-shutdown
service ovirt-ha-agent stop
service ovirt-ha-broker stop
5.   Manager host    OS      IP      (RHEVM IP)
6.   RHEVM
7. engine-cleanup
8.
9.   hosted-engine
10.  hosted-engine vm
[root@rhev ~]# su - postgres -c psql
psql (8.4.20)
Type "help" for help.

postgres=# \c engine
psql (8.4.20)
You are now connected to database "engine".
engine=# select vm_guid from vm_static where vm_name like 'HostedEngine';
          vm_guid
-----
97ca9740-d352-4e28-8c4a-6919b810cfee
(1 row)

engine=# select snapshot_id from snapshots where vm_id='97ca9740-
d352-4e28-8c4a-6919b810cfee';
          snapshot_id
-----
5884c3a5-73dd-4778-8267-af005c1e5446
(1 row)

engine=# delete from snapshots where snapshot_id='5884c3a5-73dd-4778-8267-
af005c1e5446';
DELETE 1
engine=# delete from vm_static where vm_guid='97ca9740-
d352-4e28-8c4a-6919b810cfee';
DELETE 1
engine=#

--- 3.6 upgrade
1. repository      rhev3.6manager
2. yum update rhev3.6manager
3. engine-setup

--- Hypervisor Upgrade
1. Maintenance mode          RHEL 7
2.

-----
3.6
```

```

-- Physical Manager to Selfhosted engine migration
1. Physical Manager backup and disable
  - service ovirt-engine stop
  - chkconfig ovirt-engine off
  - engine-backup --mode=backup....
  - backup file copy
  - server shutdown

2. Selfhost RHEL7
  - RHEL7
  - rhev3.6host
  - update
  - install ovirt-hosted-engine-setup
  - Manager RHEL6 ISO

3. selfhost engine
  - NetworkManager disable
  - systemctl stop NetworkManager
  - systemctl disable NetworkManager
  - systemctl mask NetworkManager
  - chkconfig network on
  - service network restart

  - hosted-engine --deploy
  - Manager Server가
  - 3.6 Selfhost rhevm rhevm ovirtmgmt
  - rhevm 가
  - answer
  - ----- rhevm_network.conf
  - [environment:default]
  - OVEHOSTED_NETWORK/bridgeName=str:rhevm

  - hosted-engine --deploy --config-append=rhevm_network.conf

4. RHEV-M - rhev-m vm
  - 3.6 manager
  - rhev3.6manager repository
  - yum update
  - yum install rhevm
  - yum install postgresql-server

# . engine-setup
# DB
[root@rhevm ~]# service postgresql initdb
Initializing database: [ OK ]
[root@rhevm ~]# service postgresql start
Starting postgresql service: [ OK ]
[root@rhevm ~]# chkconfig postgresql on
# DB - report history

```

```
[root@rhev ~]# su - postgres -c psql
psql (8.4.20)
Type "help" for help.

postgres=# create role engine with login encrypted password 'redhat';
CREATE ROLE
postgres=# create role ovirt_engine_reports with login encrypted
password 'redhat';
CREATE ROLE
postgres=# create role ovirt_engine_history with login encrypted
password 'redhat';
CREATE ROLE

## DB      - report  history
postgres=# create database engine owner engine template template0
encoding 'UTF8' lc_collate 'en_US.UTF-8' lc_ctype 'en_US.UTF-8';
CREATE DATABASE
postgres=# create database ovirt_engine_reports owner
ovirt_engine_reports template template0 encoding 'UTF8' lc_collate
'en_US.UTF-8' lc_ctype 'en_US.UTF-8';
CREATE DATABASE
postgres=# create database ovirt_engine_history owner
ovirt_engine_history template template0 encoding 'UTF8' lc_collate
'en_US.UTF-8' lc_ctype 'en_US.UTF-8';
CREATE DATABASE
postgres=# \q

- DB      -      가      .
[root@rhev ~]# vim /var/lib/pgsql/data/pg_hba.conf
host      all      all      0.0.0.0/0      md5
host      all      all      ::0/0      md5

postgresql
[root@rhev ~]# vim /var/lib/pgsql/data/postgresql.conf
max_connections = 200 #      100      150      .

[root@rhev ~]# service postgresql restart
Stopping postgresql service:      [ OK ]
Starting postgresql service:      [ OK ]

[root@rhev ~]# engine-backup --mode=restore --scope=all --
file=rhev3.6.backup --log=restore.log --change-db-credentials --db-
host=localhost --db-name=engine --db-user=engine --db-password --restore-
permissions
Enter Engine database password:
Preparing to restore:
- Setting credentials for Engine database 'engine'
- Unpacking file 'rhev3.6.backup'
Restoring:
- Files
```



```

- Engine database 'engine'
  - Cleaning up temporary tables in engine database 'engine'
Rewriting /etc/ovirt-engine/engine.conf.d/10-setup-database.conf
You should now run engine-setup.
Done.
[root@rhevm ~]#

#   가
- engine-setup

5.           Host
selfhost

        Make a selection from the options below:
        (1) Continue setup - oVirt-Engine installation is ready and ovirt-
engine service is up
        (2) Abort setup
        (3) Power off and restart the VM
        (4) Destroy VM and abort setup
        (1, 2, 3, 4)[1]:
        Checking for oVirt-Engine status at rhevm.local.domain...
[ INFO ] Engine replied: DB Up!Welcome to Health Status!
[ INFO ] Acquiring internal CA cert from the engine
[ INFO ] The following CA certificate is going to be used, please
immediately interrupt if not correct:
[ INFO ] Issuer: C=US, O=local.domain, CN=rhevm.local.domain.43526,
Subject: C=US, O=local.domain, CN=rhevm.local.domain.43526, Fingerprint
(SHA-1): A8EAB4492391075F7DB9E2BC18C02288C80F5308
[ INFO ] Connecting to the Engine

        Cluster           가           rhevm           ovirtmgmt
https://access.redhat.com/solutions/2292861
management network  rhevm           selfhost  ovirtmgmt
가

        Cluster  Selfhost
Ignore         Selfhost           reboot
hosted-engine --vm-status
hosted-engine --vm-start  Manager VM

-----
        Make a selection from the options below:
        (1) Continue setup - oVirt-Engine installation is ready and ovirt-
engine service is up
        (2) Abort setup
        (3) Power off and restart the VM
        (4) Destroy VM and abort setup
        (1, 2, 3, 4)[1]:
        Checking for oVirt-Engine status at rhevm.local.domain...

```

```
[ INFO ] Engine replied: DB Up!Welcome to Health Status!
[ INFO ] Acquiring internal CA cert from the engine
[ INFO ] The following CA certificate is going to be used, please
immediately interrupt if not correct:
[ INFO ] Issuer: C=US, O=local.domain, CN=rhev.local.domain.43526,
Subject: C=US, O=local.domain, CN=rhev.local.domain.43526, Fingerprint
(SHA-1): A8EAB4492391075F7DB9E2BC18C02288C80F5308
[ INFO ] Connecting to the Engine
Enter the name of the cluster to which you want to add the host
(ClusterA, Default) [Default]:
[ INFO ] Waiting for the host to become operational in the engine. This may
take several minutes...
[ INFO ] Still waiting for VDSM host to become operational...
[ INFO ] The VDSM Host is now operational
[ INFO ] Saving hosted-engine configuration on the shared storage domain
Please shutdown the VM allowing the system to launch it as a
monitored service.
The system will wait until the VM is down.
[ INFO ] Enabling and starting HA services
[ INFO ] Stage: Clean up
[ INFO ] Generating answer file '/var/lib/ovirt-hosted-engine-
setup/answers/answers-20170212201417.conf'
[ INFO ] Generating answer file '/etc/ovirt-hosted-engine/answers.conf'
[ INFO ] Stage: Pre-termination
[ INFO ] Stage: Termination
[ INFO ] Hosted Engine successfully set up
[root@host1 ~]#
```

```
-----
----- 4.0

0. 3.6 RHEVM 3.6 ( , ,
) ( !!)

1. 3.6 RHEVM backup

2. host RHEL7

3. RHV 4.0 manager (rhv4.0 repo)
yum install rhevm

4. 3.6 4.0
Data Warehouse 가 --provision-dwh-db
Install optional extension packages if they were installed on the Red
Hat Enterprise Virtualization Manager 3.6

# yum install ovirt-engine-extension-aaa-ldap ovirt-engine-extensionaaa-
misc ovirt-engine-extension-logger-log4j

# db password
# engine-backup --mode=restore --scope=all --file=rhev3.6.backup --
log=restore.log --provision-db --provision-dwh-db --no-restore-permissions
```

```
# engine-setup
```

```
5. Hypervisor 4.0
    maintenance mode
    rhel7 rhv4.0 repo
    yum update

6.          4.0
7.          4.0
8. VM
```

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