oVirt 4.3 to 4.4 Upgrade
Deep Dive

Lev Veyde
Senior Software Engineer
Red Hat Israel
4.4 - (Not) Some minor release

(More like oVirt 5.0)
CentOS/RHEL 8.x

- CentOS/RHEL 8.2+
- No in place upgrade from CentOS/RHEL 7.x
Pre-requisites

- Update oVirt to 4.3

- Data Center and Cluster compatibility level set to 4.2+
Process overview (Standalone)

- Stop the engine service
- Backup the 4.3 engine DB
- Re-Install 4.4 engine on top of CentOS/RHEL 8.2
- Restore the engine DB from backup
- Replace the hosts
Backup the engine DB

# engine-backup --scope=all --mode=backup --file=backup.bck --log=backuplog.log
# systemctl stop ovirt-engine

# time engine-backup --scope=all --mode=backup --file=backup.bck --log=backuplog.log

Start of engine-backup with mode 'backup'

scope: all
archive file: backup.bck
log file: backuplog.log

Backing up:
Notifying engine
- Files
- Engine database 'engine'
- DWH database 'ovirt_engine_history'
Packing into file 'backup.bck'
Notifying engine
Done.

real     0m7.478s
user     0m1.704s
sys      0m1.108s
Restore the engine DB

```bash
# engine-backup --mode=restore --file=backup.bck --log=restore.log --provision-db
--provision-dwh-db --restore-permissions
```
Run the engine setup

# engine-setup
Demo
Process overview (Self-Hosted)

- Stop the engine service
- Backup the 4.3 engine DB
- Move to Global Maintenance
- Re-Install 4.4 host based on CentOS/RHEL 8.2
- Restore the engine DB from backup
- Replace the hosts
Backup the engine DB

# engine-backup --scope=all --mode=backup --file=backup.bck --log=backuplog.log
# hosted-engine --deploy --restore-from-file=/root/backup.bck

Restore the engine DB
Questions?

- Should I update to 4.3 **latest** first or any 4.3 is OK?
- Is there a rollback?
- What happens to the current VMs?
- How much downtime we can expect?
Thank you

Red Hat is the world’s leading provider of enterprise open source software solutions. Award-winning support, training, and consulting services make Red Hat a trusted adviser to the Fortune 500.

linkedin.com/company/red-hat
youtube.com/user/RedHatVideos
facebook.com/redhatinc
twitter.com/RedHat