

# Installing OpenShift Enterprise multi-nodes config using VirtualBox for demos

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<https://github.com/gbechara/osedevops>

# Prerequisites

- Virtual Box (tested on Version 5.0.20 r106931)
- Vagrant (tested on 1.8.1)
- a valid RHEL7 and OpenShift Enterprise Subscription
- a Vagrant Box with a valid RHEL7 & OpenShift Enterprise Subscription
  - Create a VirtualBox with RHEL7 “Server”
  - Add to this VirtualBox your valid Subs
  - Convert this Box into a Vagrant Base Box located on your local disk
    - Instruction are here <https://www.vagrantup.com/docs/boxes/base.html>
    - name this base box rhel72-server-base.box (or change the name in the Vagrantfile)
    - do not share this box : it contains your subscriptions

# Usage

- Get the source code
  - > git clone <https://github.com/gbechara/osedevops.git>
- Launch
  - > Change the passwords in the file Vagrantfile to match the root password of your box  
This password is needed to copy the generated ssh key to all OpenShift nodes
  - > cd osedevops
  - > vagrant plugin install vagrant-cachier // optional, this might generate an issue
  - > vagrant up
- configure your host to add a dnsserver
  - on linux add in /etc/resolv.conf  
search example.com  
10.100.192.201
  - on osx create 2 files named 'example.com' and 'router.default.svc.cluster.local' in /etc/resolver add to those files  
nameserver 10.100.192.201
- The openshift console is here  
<https://ose-master.example.com:8443/console/>

# Target architecture

## DNS entry for each VM

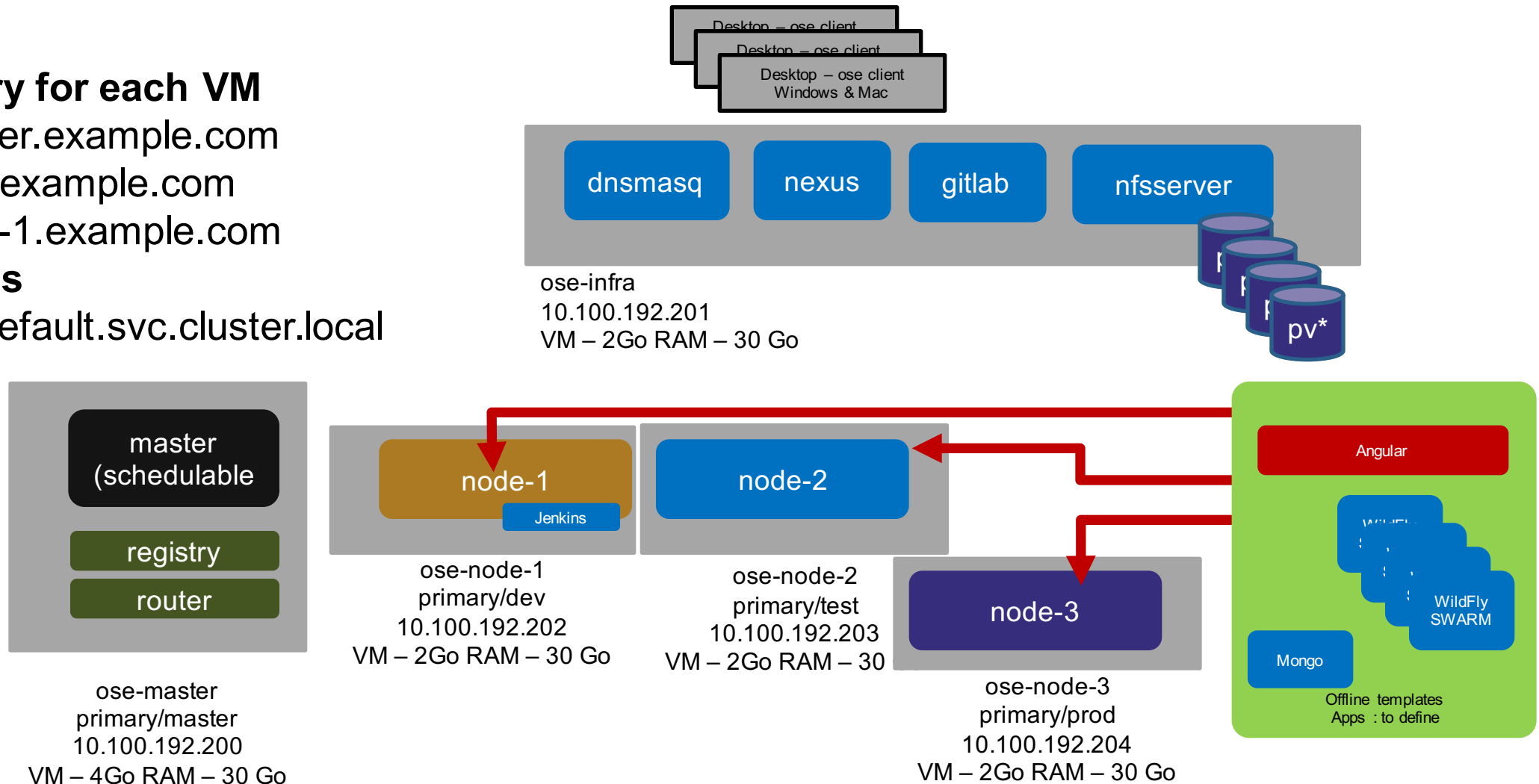
ose-master.example.com

ose-infra.example.com

ose-node-1.example.com

## Wildcards

\*.router.default.svc.cluster.local



# Limitations/Issues/Workaround

- Works only when connected to internet
  - OOTB Templates use github and maven repos

- Sometimes (not sure when & not related to host script)

“For an unkown reason “The SSH command responded with a non-zero exit status. Vagrant assumes that this means the command failed. The output for this command should be in the log above. Please read the output to determine what went wrong.”

```
> vagrant plugin uninstall vagrant-cachier
```

# Roadmap

- ✓ Add NFS for persistent Volumes
- ✓ Add a git server
- ✓ Add a nexus
- Add templates for offline demos using the git server and the nexus
- Add samples
  - Deploying WildFly SWARM microservices on OpenShift
  - Covering the entire DevOps lifecycle
  - Other ideas ?
  - ....