

# Installing OpenShift Enterprise on a VirtualBox for demos

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# 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
  - > 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

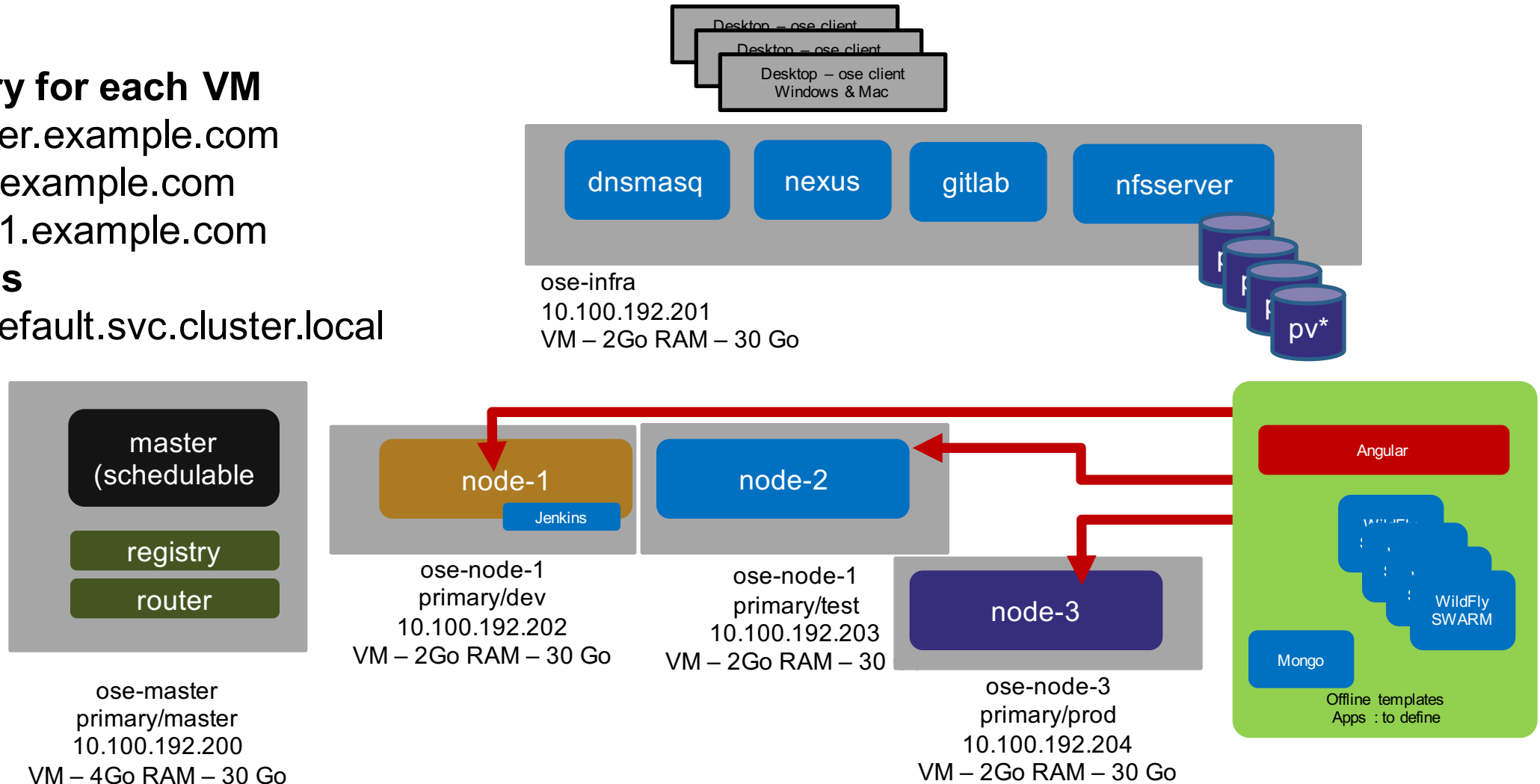
ose-master.example.com

ose-infra.example.com

ose-node1.example.com

## Wildcards

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



# Limitations

- Works only when connected to internet

# 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 ?
  - ....