

Please check in and log into your VM within 15 min

→ BOSH Training Program Notes

- Get an IP from the list on-screen
- Goal is show the puzzle box top not do the puzzle
- Will do a fast run-through and will have time to explore and ask questions
- There are several CF staff to help you

Login and verify (within 15 min)

- wget -q -O- http://goo.gl/5ubNLm > ~/tmp/id_rsa_meetup
- chmod 400 ~/tmp/id_rsa_meetup
- ssh-add ~/tmp/id_rsa_meetup
- ssh -A ubuntu@<IP>
- try: 'bosh status'

→ BOSH tl;dr

- BOSH is packaging, distribution, orchestration and management tool
- Director the main actor
- Hands-on:
 - The "stemcell" Ubuntu image with an agent
 - The "release" Like an SRPM
 - The manifest details about your particular deployment of a release

→ Upload the stemcell (20 secs)

- bosh stemcells
- bosh upload stemcell ~/boshstemcell-389-warden-boshlite-ubuntutrusty-go_agent.tgz
- bosh stemcells

→ The dummy release (12 secs)

- The 'dummy-boshrelease' is a training release
- cd ~/workspace/dummy && bosh create release --force # take the default
- bosh upload release
- bosh releases # note the sha1

→ Deploy the release (45 sec)

- bosh vms
- bosh deployment
 ~/workspace/dummy/meetup/deploy-i-* manifest.yml
- bosh status
- bosh deploy # type 'yes' to all
- bosh vms

→ VM info

- bosh vms --details
- bosh vms --vitals
 - can be supplied to metrics/monitoring systems

Updating a deploy

- EDITOR=vim bosh edit deployment
 - o /^jobs:
 - increment instance count line 9
 - o add another static IP after line 14
 - 10.244.0.6"
 - o wq!
- bosh deploy && bosh vms

+ Add a new deploy

- There's another deployment, same release, but additional components
- bosh deployment
 ~/workspace/dummy/meetup/all-dummydeploy-*-manifest.yml
- bosh -n deploy # great for CI
- bosh vms

ssh onto a job vm

- bosh ssh
- select 3
- SET a passwd (use 'f')
- Press "return" at the ssh passphrase prompt
- sudo -i
- enter 'f'

Going to reboot all the bosh-lites!

- bosh vms --details # note 'CID' & 'Agent ID'
- REBOOT!
- Check your 'uptime' to make sure it's s really rebooted
- boxes will be rebooting!
- Will do a recovery

→ BOSH cloud check

- After VMs reboot, will reinstantiate deployments
- bosh cck
- Ls ~/workspace/dummy/meetup/
- bosh deployment
 ~/workspace/dummy/meetup/dep*yml
- bosh cck --auto

→ BOSH download manifest

- bosh deployments
- bosh download manifest <deploymentname> ~/dummy.yml

→ BOSH recreate

- bosh ssh to a VM;
- sudo rm -rf /var/vcap/jobs/*
- exit
- bosh vms --details
- bosh recreate <job> <index>
- bosh vms --details

→ BOSH releases

- The community repos
 - o https://github.com/cloudfoundry-community
 - 100+ repos
- CF Platform teams
 - BOSH Releases for the newest tech
 - Various Docker releases
 - Alpha GCE CPI for BOSH <u>bosh-google-cpi</u>

Resources

- https://github.com/pivotal-cfexperimental/bosh-classroom
 - Uses tools from https://github.com/pivotal-cf-experimental/basic-env
 - The scripts are rough, but functional YMMV