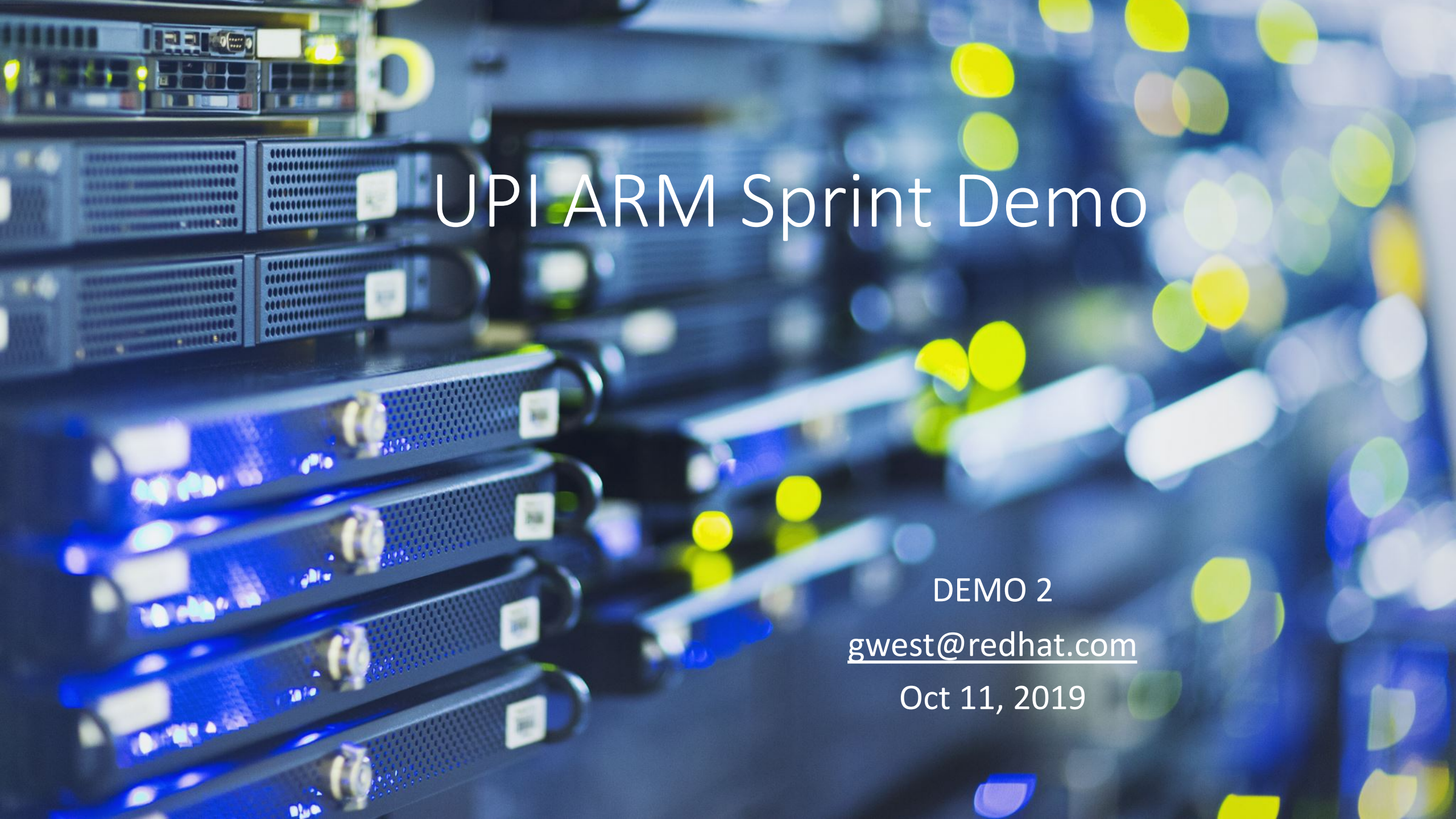


UPI ARM Sprint Demo

DEMO 2

gwest@redhat.com

Oct 11, 2019

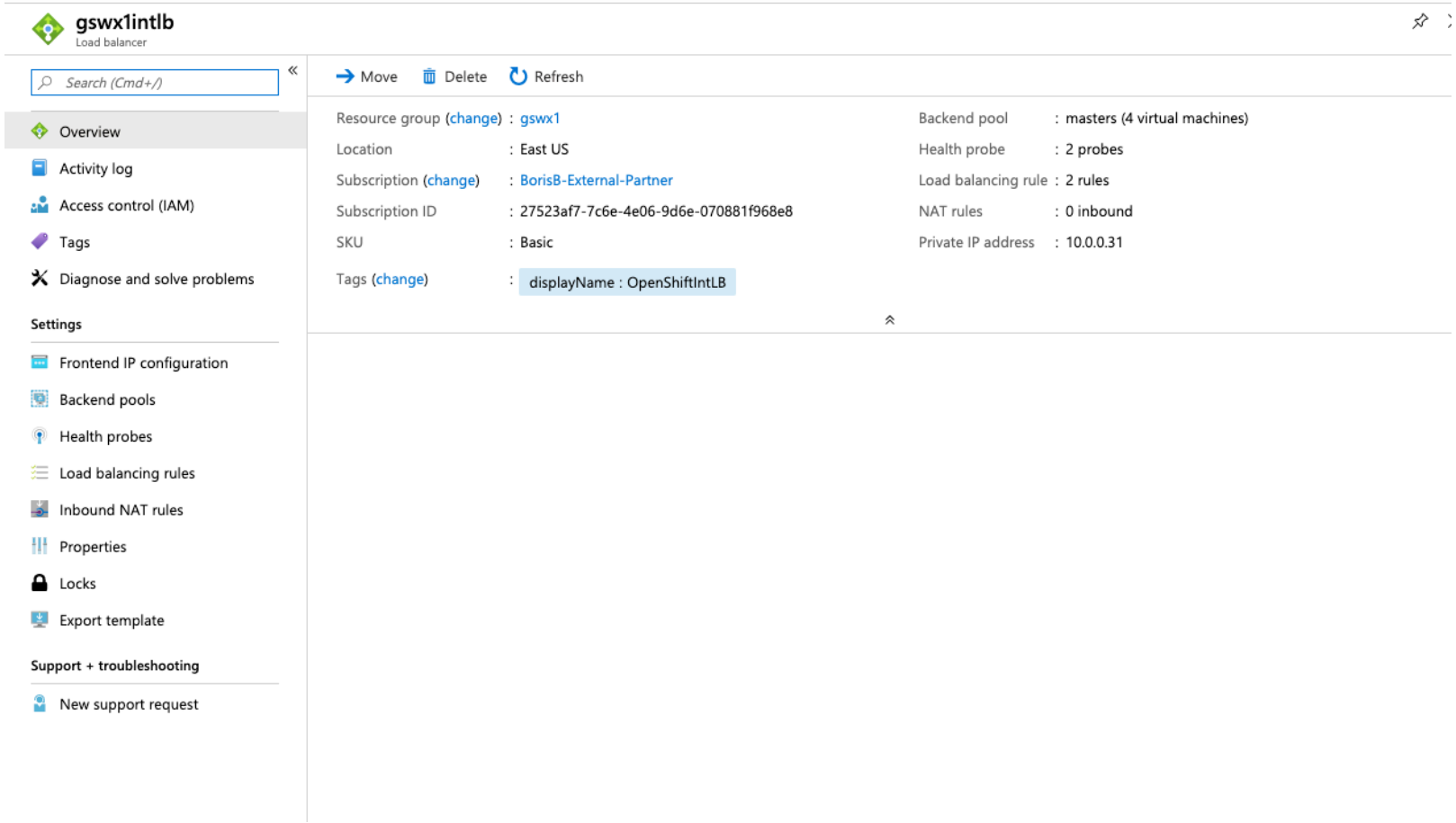
WIP

- ~~Reconfigure internal load balancer to handle node boots - size 2~~
- Fix wildcard app load balacer - size 2
- ~~Chance scripts to parametrise resource group name - size 1~~
- ~~Change to use 4.2 nightlies - size 2~~
- Add azure cloud provider - size 3 – In Progresss – Pending Blocker
- Dns local or automation - size 2
- ~~Add bastion for debug - size 1 - Unneeded~~
- Work to support ci of azure arm upi - need help from someone who does ci
- Cleanup of scripts

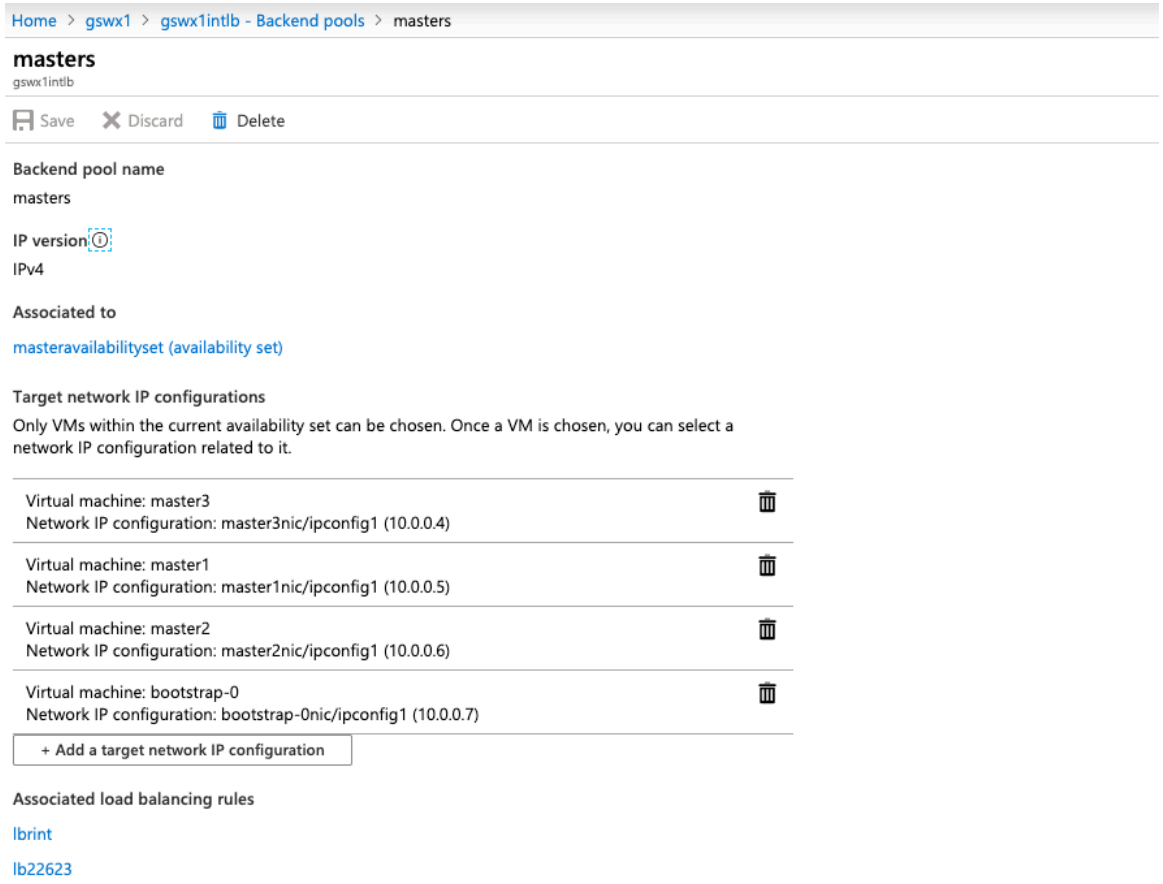
Internal Load Balancer – Created

Name	Type	Location
masteravailabilityset	Availability set	East US
nodeavailabilityset	Availability set	East US
bastion_OsDisk_1_69cf9d779672457b87c7cc003cd69a18	Disk	East US
MasterLbgswx1	Load balancer	East US
gswx1intlb	Load balancer	East US
wildcardzonelb	Load balancer	East US
bastion869	Network interface	East US
bootstrap-0nic	Network interface	East US
master1nic	Network interface	East US
master2nic	Network interface	East US
master3nic	Network interface	East US
node01nic	Network interface	East US
node02nic	Network interface	East US
node03nic	Network interface	East US

Internal Load Balancer - Working

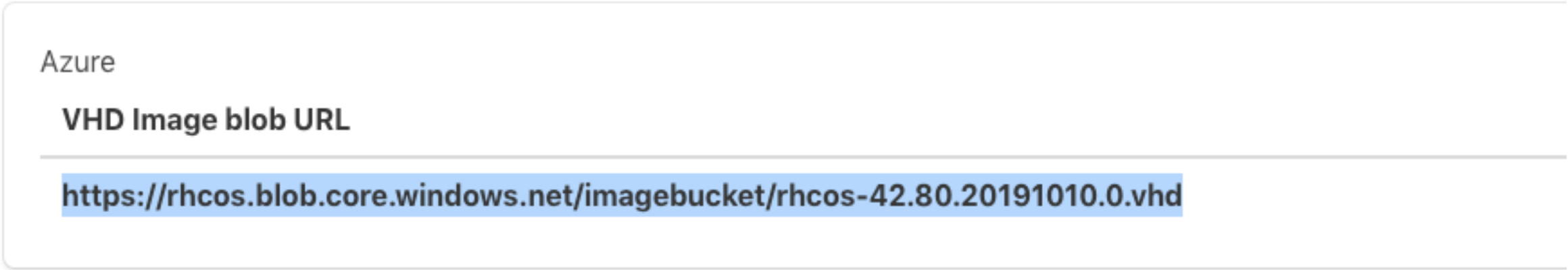


Internal Load Balancer – Backend Pool



Azure VHD

- Currently Azure (VHD) VM Images are just stored in a storage account
- Every time you run the ARM template due to this we must “copy” the image into the resource group used by the ARM template
- Note that a normal “RHEL” Image has a different mechanism, that effectively includes distribution of images to all av zones, and speeds up the vm spin up. (10-20 minutes of extra time for storage account)



Card – Parametertised scripts

- Scripts have been changed to support giving the resource group on command line

```
./setup_azarm.sh gswx1
read -p "Press [Enter] to start deploy"
./deploy_azarm.sh       gswx1
```

Card – Move to 4.2

- Changed Folder structure to be version independent
- Added nightly build “Internal” script to pull installer
- Changed rhcos version and storage account source
- Change scripts to reflect above

```
Glenns-MacBook-Pro-2:ocpupi4azure gwest$ pwd
/Users/gwest/ocpupi4azure
Glenns-MacBook-Pro-2:ocpupi4azure gwest$ ls
README.md       images          ssh_mac.md      wip
arm             ssh_linux.md    ssh_windows.md
```

Change version of OpenShift for ARM UPI

- Change the RHCOS Image name in azuredeploy.parameters.json

```
Glenns-MacBook-Pro-2:arm gwest$ cat azuredeploy.parameters.json
{
  "$schema" : "https://schema.management.azure.com/schemas/2015-01-01/deploymentParameters.json#",
  "contentVersion" : "1.0.0.0",
  "parameters" : {
    "image" : {
      "value" : "https://sagswx1.blob.core.windows.net/vhd/rhcos-42.80.20191010.0.vhd"
    },
```

- Change image variable in set_azarm.sh

```
#export VHD_NAME=rhcos-410.8.20190504.0-azure.vhd
export VHD_URL=https://rhcos.blob.core.windows.net/imagebucket/
export VHD_NAME=rhcos-42.80.20191010.0.vhd
```

First 4.2 Nightly Deployment Success

Filter by deployment name or resources in the deployment...

Deployment name	Status	Last modified	Duration
master3	Succeeded	10/16/2019, 11:09:04 AM	1 minute 41 seconds
bootstrap	Succeeded	10/16/2019, 11:08:53 AM	1 minute 29 seconds
node2	Succeeded	10/16/2019, 11:08:48 AM	1 minute 24 seconds
master1	Succeeded	10/16/2019, 11:08:46 AM	1 minute 23 seconds
master2	Succeeded	10/16/2019, 11:08:47 AM	1 minute 23 seconds
node1	Succeeded	10/16/2019, 11:08:40 AM	1 minute 16 seconds
node0	Succeeded	10/16/2019, 11:08:45 AM	1 minute 21 seconds
gswx1	Succeeded	10/16/2019, 11:09:13 AM	1 minute 54 seconds

First 4.2 Bootstrap and Cluster at 99%

```
Glenns-MacBook-Pro-2:arm gwest$ openshift-install --dir=gw wait-for bootstrap-complete --log-level debug
DEBUG OpenShift Installer v4.1.18-201909201915-dirty
DEBUG Built from commit 33daf58e035dfd94f9ad23cf8d81e6665ff26c57
INFO Waiting up to 30m0s for the Kubernetes API at https://api.gw.ncc9.com:6443...
DEBUG Still waiting for the Kubernetes API: Get https://api.gw.ncc9.com:6443/version?timeout=32s: dial tcp 52.170.203.23:6443: i/o timeout
DEBUG Still waiting for the Kubernetes API: the server could not find the requested resource
DEBUG Still waiting for the Kubernetes API: the server could not find the requested resource
DEBUG Still waiting for the Kubernetes API: the server could not find the requested resource
DEBUG Still waiting for the Kubernetes API: the server could not find the requested resource
DEBUG Still waiting for the Kubernetes API: the server could not find the requested resource
DEBUG Still waiting for the Kubernetes API: the server could not find the requested resource
DEBUG Still waiting for the Kubernetes API: the server could not find the requested resource
DEBUG Still waiting for the Kubernetes API: Get https://api.gw.ncc9.com:6443/version?timeout=32s: dial tcp 52.170.203.23:6443: connect: connection refused
INFO API v1.14.6+1e5e0b1 up
INFO Waiting up to 30m0s for bootstrapping to complete...
DEBUG Bootstrap status: complete
INFO It is now safe to remove the bootstrap resources
Glenns-MacBook-Pro-2:arm gwest$
```

```
Glenns-MacBook-Pro-2:arm gwest$ openshift-install --dir=gw wait-for install-complete --log-level debug
DEBUG OpenShift Installer v4.1.18-201909201915-dirty
DEBUG Built from commit 33daf58e035dfd94f9ad23cf8d81e6665ff26c57
INFO Waiting up to 30m0s for the cluster at https://api.gw.ncc9.com:6443 to initialize...
DEBUG Still waiting for the cluster to initialize: Some cluster operators are still updating: authentication, console, image-registry
DEBUG Still waiting for the cluster to initialize: Working towards 4.2.0-0.nightly-2019-10-11-230724: 99% complete
DEBUG Still waiting for the cluster to initialize: Some cluster operators are still updating: authentication, console, image-registry
```

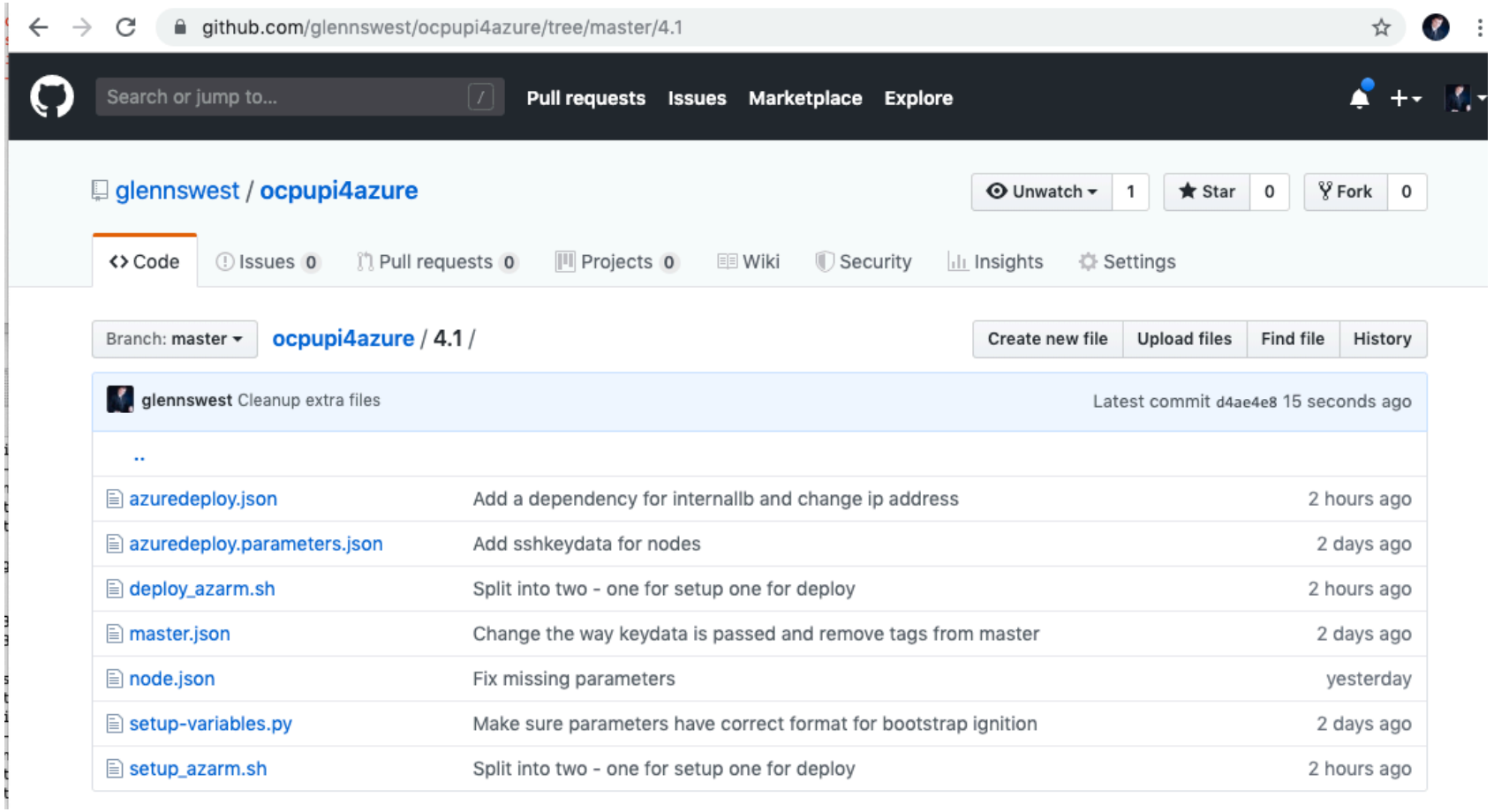
Current Status

- Working:
  - Internal Load Balancer is Fixed and Working
- Testings Pending
  - Azure Cloud Provider
  - App Load Balancer/Portal
- New Cards
  - 4.3 – Test Bare Metal – In progress
  - Introduction/Overview Presentation
    - Include How To various subjects
      - Changing Internal IP’s
      - Changing Versions
      - Adding More Workers

Resolved Issues

- Resolved Issues
  - SSH Not Working to masters – ssh key had extraneous character
  - Masters Not Booting – DNS Address Issue Fixed
- Blockers
  - Azure Quota – Requested yesterday – Still not resolved

Where’s it at:



https://github.com/glennswest/ocpupi4azure/tree/master/4.1