

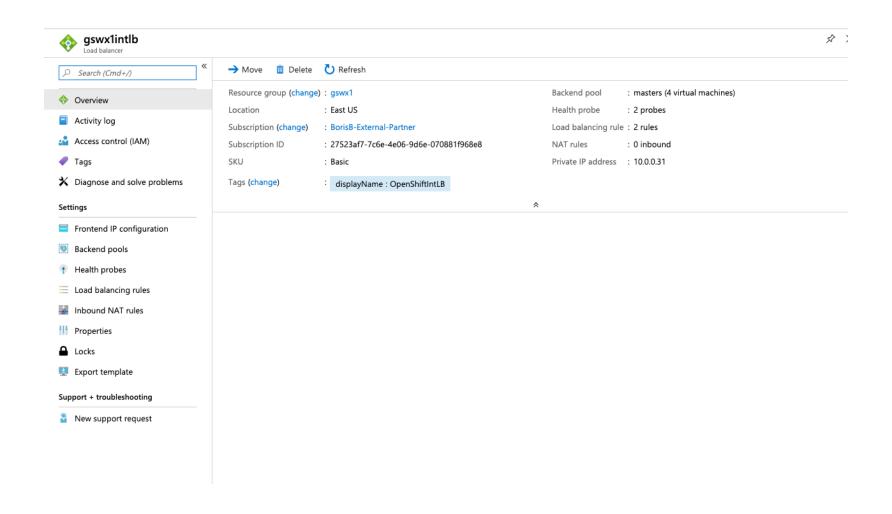
#### **WIP**

- 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
- Dns local or automation size 2
- Add bastion for debug size 1
- Work to support ci of azure arm upi need help from someone who does ci
- Cleanup of scripts

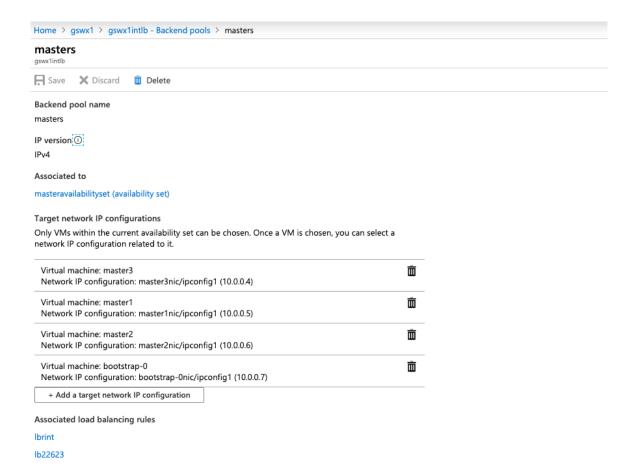
### Internal Load Balancer – Created

5.15.1.mg : 15.55 6:55 6:55 (15.56.1	· · · · · · · · · · · · · · · · · · ·	
Name 🕦	Туре ↑↓	Location 👊
masteravailabilityset	Availability set	East US
nodeavailabilityset	Availability set	East US
<b>a</b> 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



### Kubelet Issue – 4.1 Flake?

```
OK ] Started Network Manager Script Dispatcher Service.
    12.648964] IPv6: ADDRCONF(NETDEV_UP): eth0: link is not ready
    12.654665] IPv6: ADDRCONF(NETDEV_UP): eth0: link is not ready
   12.658697] IPv6: ADDRCONF(NETDEV CHANGE): eth0: link becomes ready
   OK | Started Log RPM-OSTree Booted Deployment Status To Journal.
   OK ] Started Network Manager Wait Online.
   OK ] Reached target Network is Online.
         Starting NFS status monitor for NFSv2/3 locking....
         Starting Generate /run/issue.d/console-login-helper-messages.issue...
         Starting Open Container Initiative Daemon...
         Starting RPC Bind...
   OK | Started RPC Bind.
   OK ] Started Generate /run/issue.d/console-login-helper-messages.issue.
         Starting Permit User Sessions...
   OK | Started NFS status monitor for NFSv2/3 locking..
   OK ] Started Permit User Sessions.
   OK | Started Getty on ttyl.
   OK ] Started Serial Getty on ttyS0.
   OK ] Reached target Login Prompts.
   OK ] Started Kubernetes systemd probe.
[FAILED] Failed to start Kubernetes Kubelet.
See 'systemctl status kubelet.service' for details.
  OK ] Started Open Container Initiative Daemon.
   OK | Reached target Multi-User System.
         Starting Update UTMP about System Runlevel Changes...
   OK ] Started Update UTMP about System Runlevel Changes.
Red Hat Enterprise Linux CoreOS 410.8.20190920.2 (Ootpa) 4.1
SSH host key: SHA256:nBTcD4gu/o0czzgkox+PpaHWQA3cS2pOkrpCciUH/9Q (ECDSA)
SSH host key: SHA256:SWHc5KCBsCMbu1C96+dQ0dnWGyDPHAWBxAm+3EC/TMk (ED25519)
SSH host key: SHA256:Nbq7YVoDcoMRJuepJqbz1cOL5T1Q7cKQdtxkxPWsCMY (RSA)
eth0: 10.0.0.6 fe80::f502:d712:5d10:cbb3
master2 login: [ 34.488691] SELinux: mount invalid. Same superblock, different security settings for (dev r
[ 35.866457] SELinux: mount invalid. Same superblock, different security settings for (dev mqueue, type mqu
[ 52.132882] SELinux: mount invalid. Same superblock, different security settings for (dev mqueue, type mqu
[ 58.964035] hv balloon: Max. dynamic memory size: 28672 MB
 This session was closed due to inactivity. To reconnect, press "Enter".
```

### Other masters seem ok

```
Starting Network Manager Wait Online...
        Starting RPM-OSTree System Management Daemon...
  OK | Started OpenSSH server daemon.
        Starting Authorization Manager...
  OK ] Started Hostname Service.
        Starting Network Manager Script Dispatcher Service...
  OK ] Started Network Manager Script Dispatcher Service.
  OK ] Started Authorization Manager.
   13.919601] IPv6: ADDRCONF(NETDEV_UP): eth0: link is not ready
   13.925729] IPv6: ADDRCONF(NETDEV_UP): eth0: link is not ready
   13.929997] IPv6: ADDRCONF(NETDEV CHANGE): eth0: link becomes ready
  OK | Started RPM-OSTree System Management Daemon.
  OK ] Started Log RPM-OSTree Booted Deployment Status To Journal.
  OK | Started Network Manager Wait Online.
  OK ] Reached target Network is Online.
        Starting Open Container Initiative Daemon...
        Starting NFS status monitor for NFSv2/3 locking....
        Starting Generate /run/issue.d/console-login-helper-messages.issue...
        Starting RPC Bind...
  OK | Started RPC Bind.
  OK ] Started Generate /run/issue.d/console-login-helper-messages.issue.
  OK ] Started NFS status monitor for NFSv2/3 locking..
        Starting Permit User Sessions...
  OK | Started Permit User Sessions.
  OK ] Started Getty on ttyl.
  OK ] Started Serial Getty on ttyS0.
  OK ] Reached target Login Prompts.
  OK | Started Open Container Initiative Daemon.
Red Hat Enterprise Linux CoreOS 410.8.20190920.2 (Ootpa) 4.1
SSH host key: SHA256:4UmG+vlqMnhcYsZGDshyC88YP+0s4/as3Cov14n9SpQ (ECDSA)
SSH host key: SHA256:ETUFxJGfxTVClok9Wn5H8XVnO4qINjQhCq76V2JY3qE (ED25519)
SSH host key: SHA256:6TOSL/AT05DSNfAmSl1Xb6dK/pLxP/605kWLhvb/7YI (RSA)
eth0: 10.0.0.5 fe80::106c:6fcd:590d:5f84
masterl login: [ 29.596913] SELinux: mount invalid. Same superblock, different security settings for (dev m
queue, type mqueue)
 31.121252] SELinux: mount invalid. Same superblock, different security settings for (dev mqueue, type mqu
[ 35.358897] SELinux: mount invalid. Same superblock, different security settings for (dev mqueue, type mqu
  60.220496] hv balloon: Max. dynamic memory size: 28672 MB
```

#### 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)

Azure

VHD Image blob URL

https://rhcos.blob.core.windows.net/imagebucket/rhcos-42.80.20191010.0.vhd

## 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

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
```

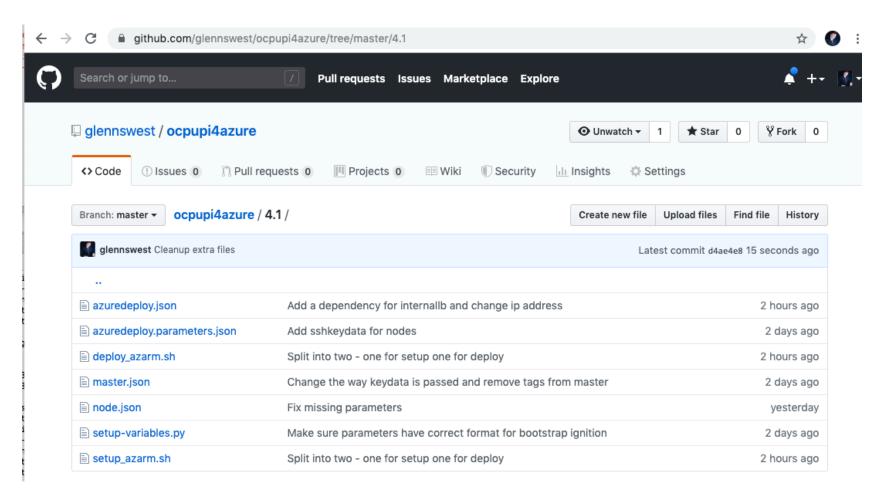
# First 4.2 Nightly Deployment Success

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

### **Current Status**

- Working:
  - Internal Load Balancer is Fixed and Working
- Not Done/Not Working:
  - Ssh not working to masters/nodes

### Where's it at:



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