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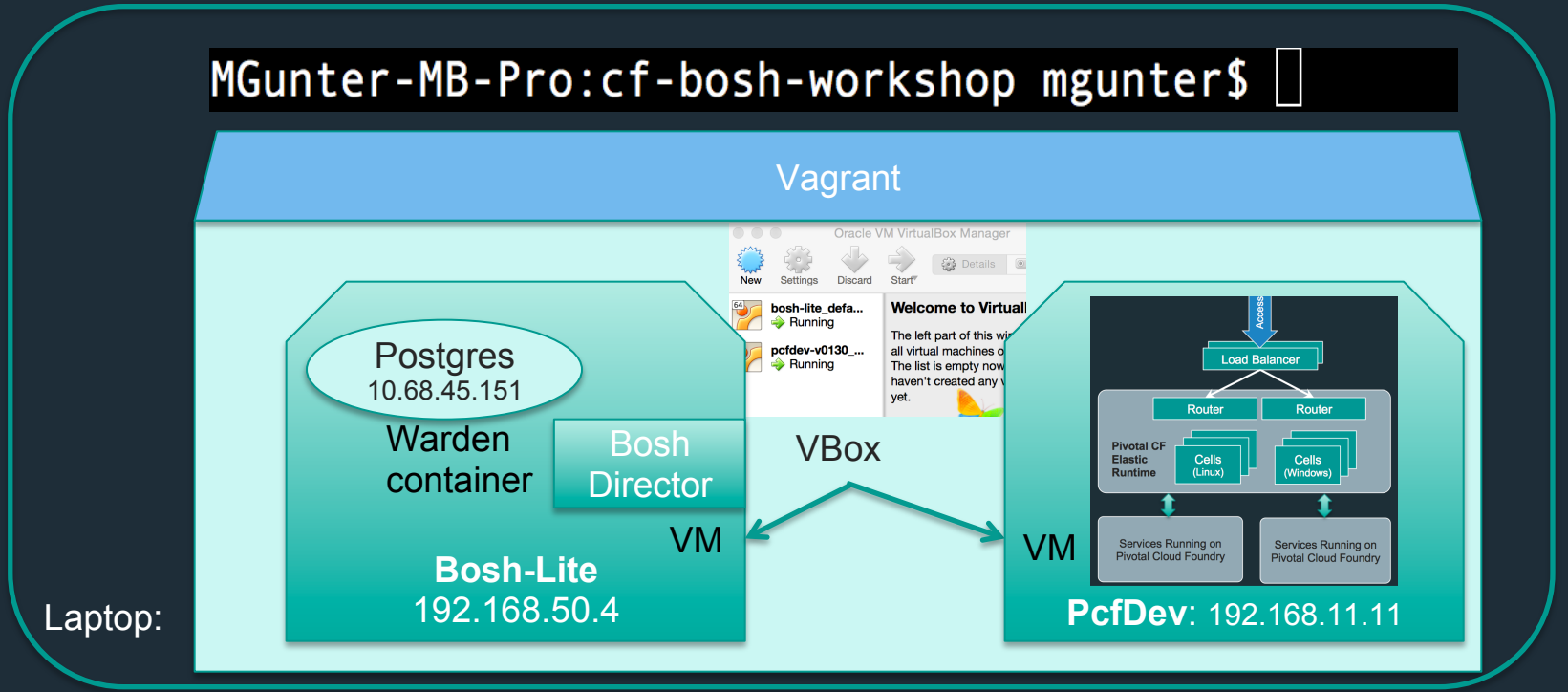
LAB 1:
Configure bosh-lite And PcfDev

Laptop Environment for Lab



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BOSH-Lite

BOSH Lite is a pre-built Vagrant box which includes the Director. It uses containers to emulate VMs which makes it an excellent choice for:

- General BOSH exploration without investing time and resources to configure an IaaS
- Development of releases (including BOSH itself)
- Testing releases locally or in CI

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Setting up a BOSH Director

1. Install Vagrant
2. Spin up a BOSH-Lite VM
3. Target our new environment
4. Check BOSH-Lite status

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1. Install Vagrant

- Download and install Vagrant
  https://www.vagrantup.com/

- Install Virtual Box
- Install Vagrant Vbox Plugin

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2. Spin up a BOSH Lite VM

vagrant up –provider=virtualbox

```
MGunter-MB-Pro:bosh-lite mgunter$ vagrant up
Bringing machine 'default' up with 'virtualbox' provider...
==> default: Importing base box 'cloudfoundry/bosh-lite'...
==> default: Matching MAC address for NAT networking...
==> default: Checking if box 'cloudfoundry/bosh-lite' is up to date...
==> default: A newer version of the box 'cloudfoundry/bosh-lite' is available! You currently
==> default: have version '9000.92.0'. The latest is version '9000.109.0'. Run
==> default: `vagrant box update` to update.
==> default: Setting the name of the VM: bosh-lite_default_1461366500379_29411
==> default: Clearing any previously set network interfaces...
==> default: Preparing network interfaces based on configuration...
    default: Adapter 1: nat
    default: Adapter 2: hostonly
==> default: Forwarding ports...
    default: 22 (guest) => 2222 (host) (adapter 1)
==> default: Running 'pre-boot' VM customizations...
==> default: Booting VM...
==> default: Waiting for machine to boot. This may take a few minutes...
    default: SSH address: 127.0.0.1:2222
    default: SSH username: vagrant
    default: SSH auth method: private key
    default:
    default: Vagrant insecure key detected. Vagrant will automatically replace
    default: this with a newly generated keypair for better security.
    default:
    default: Inserting generated public key within guest...
    default: Removing insecure key from the guest if it's present...
    default: Key inserted! Disconnecting and reconnecting using new SSH key...
==> default: Machine booted and ready!
==> default: Checking for guest additions in VM...
==> default: Setting hostname...
==> default: Configuring and enabling network interfaces...
==> default: Mounting shared folders...
4       old_ips="10.68.0.0/16"
```

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3. Target our new environment

vagrant ssh

bosh target 192.168.50.4

bosh login (use: admin /admin)

```
MGunter-MB-Pro:complete mgunter$ bosh login
RSA 1024 bit CA certificates are loaded due to old openssl compatibility
Your username: admin
Enter password:
Logged in as `admin'
MGunter-MB-Pro:complete mgunter$ bosh status
Config
             /Users/mgunter/.bosh_config
```

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4. Check BOSH-Lite status

bosh status

```
MGunter-MB-Pro:complete mgunter$ bosh status
Config
             /Users/mgunter/.bosh_config

Director
RSA 1024 bit CA certificates are loaded due to old openssl compatibility
  Name       Bosh Lite Director
  URL        https://192.168.50.4:25555
  Version    1.3189.0 (00000000)
  User       admin
  UUID       553a6e62-1b01-4e9a-9cdc-ae95a65e6ab4
  CPI        warden_cpi
  dns        disabled
  compiled_package_cache enabled (provider: local)
  snapshots  disabled

Deployment
  Manifest   /Users/mgunter/Documents/Projects/cf-bosh-workshop/bosh-postgres-release/complete/postgres-bosh-release/post
gres.yml
```

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Setting up a pcfdev environment

1. Download pcfdev from https://network.pivotal.io/
2. Install Vagrant
3. Spin up a PcfDev VM
4. Login to our new environment
5. Check CF status

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2. Spin up a pcfdev VM

vagrant up –provider=virtualbox

```
MGunter-MB-Pro:pcfdev-v0.13.0 mgunter$ vagrant up
Bringing machine 'default' up with 'virtualbox' provider...
==> default: Importing base box 'pcfdev/pcfdev'...
==> default: Matching MAC address for NAT networking...
==> default: Checking if box 'pcfdev/pcfdev' is up to date...
==> default: Setting the name of the VM: pcfdev-v0130_default_1461366529128_32268
==> default: Fixed port collision for 22 => 2222. Now on port 2200.
==> default: Clearing any previously set network interfaces...
==> default: Preparing network interfaces based on configuration...
    default: Adapter 1: nat
    default: Adapter 2: hostonly
==> default: Forwarding ports...
    default: 22 (guest) => 1234 (host) (adapter 1)
    default: 22 (guest) => 2200 (host) (adapter 1)
==> default: Running 'pre-boot' VM customizations...
==> default: Booting VM...
==> default: Waiting for machine to boot. This may take a few minutes...
    default: SSH address: 127.0.0.1:2200
    default: SSH username: vagrant
    default: SSH auth method: private key
    default:
    default: Vagrant insecure key detected. Vagrant will automatically replace
    default: this with a newly generated keypair for better security.
    default:
    default: Inserting generated public key within guest...
    default: Removing insecure key from the guest if it's present...
    default: Key inserted! Disconnecting and reconnecting using new SSH key...
==> default: Machine booted and ready!
==> default: Checking for guest additions in VM...
==> default: Configuring and enabling network interfaces...
==> default: Running provisioner: shell...
    default: Running: inline script
```

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3. Login to our new environment

cf login -a api.local.pcfdev.io --skip-ssl-validation

admin

admin

```
MGunter-MB-Pro:cf-bosh-workshop mgunter$ cf login -a api.local.pcfdev.io --skip-ssl-validation
API endpoint: api.local.pcfdev.io

Email> admin

Password>
Authenticating...
OK

Targeted org pcfdev-org

Targeted space pcfdev-space



API endpoint:   https://api.local.pcfdev.io (API version: 2.51.0)
User:           admin
Org:            pcfdev-org
Space:          pcfdev-space
```

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4. Check PcfDev status

cf apps

```
MGunter-MB-Pro:cf-bosh-workshop mgunter$ cf apps
Getting apps in org pcfdev-org / space pcfdev-space as admin...
OK

No apps found
```

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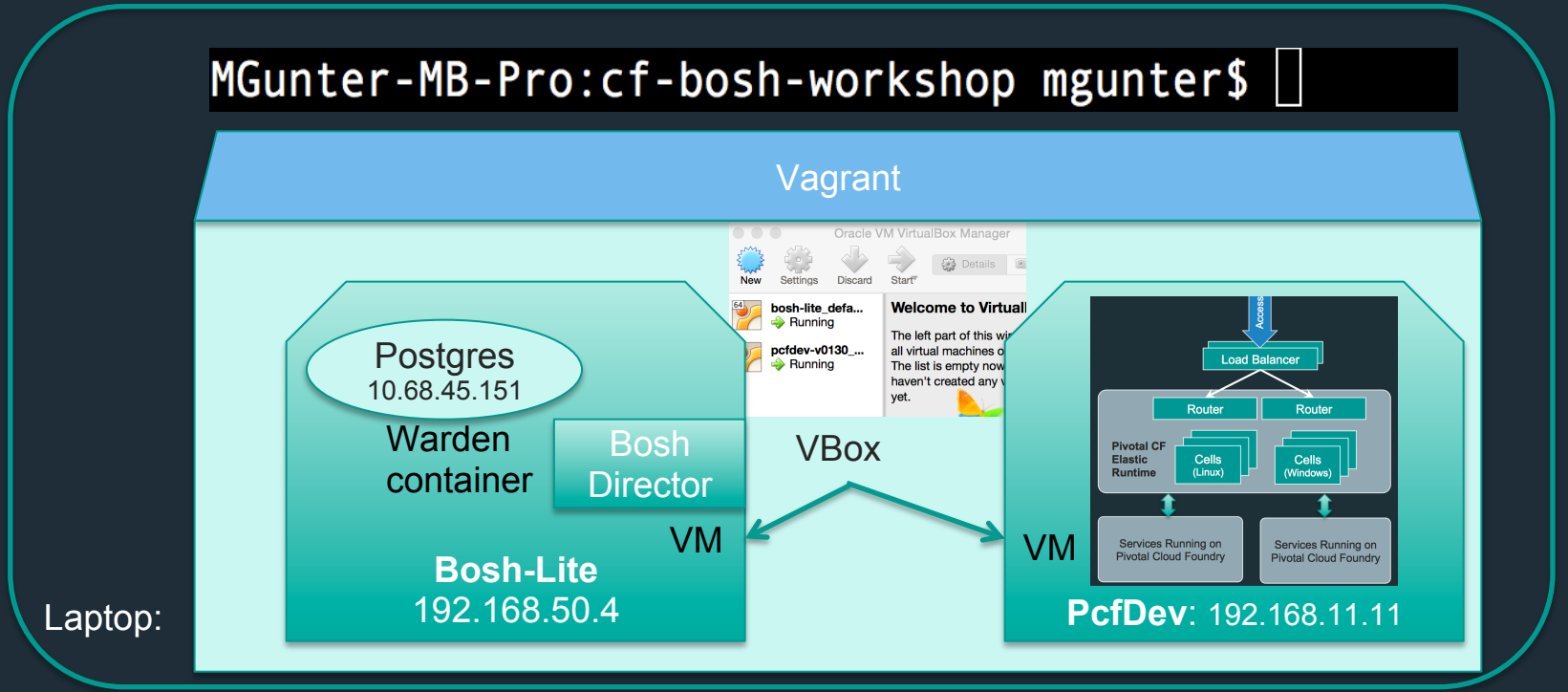
Laptop Environment for Lab



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