

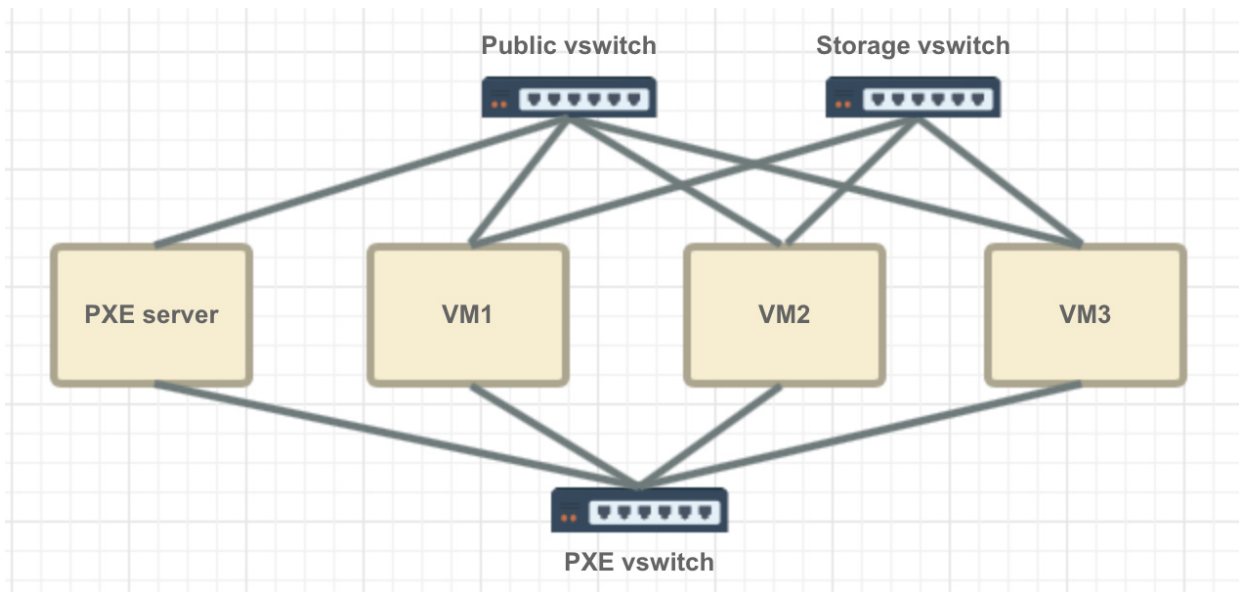
1. Check if network environment is all right

Target VMs have at least 3 nic

- Public nic
- Storage nic
- PXE nic

PXE server has at least 2 nic

- Public nic
- PXE nic



2. Check if the following packages are installed and right configured

- **DHCP**

- Install

```
apt-get -y install dhcp3-server
```

- Config

```
$ cat /etc/dhcp/dhcpd.conf # Sample, please replace IP related
with yours
.....
option domain-name "bigtera.lab";
option domain-name-servers 192.168.200.1;
.....
allow booting;
allow bootp;
subnet 192.168.200.0 netmask 255.255.255.0 {
    get-lease-hostnames off;
    use-host-decl-names on;
    range 192.168.200.100 192.168.200.200;
    option routers 192.168.200.1;
    option subnet-mask 255.255.255.0;
    option broadcast-address 192.168.200.255;
    next-server 192.168.200.1;
}
```

- **TFTP**

- Install

```
apt-get install tftpd tftp xinetd
```

- Config

```
$ cat /etc/xinetd.d/tftp
service tftp
{
    protocol = udp
    port = 69
    socket_type = dgram
    wait = yes
    user = nobody
    server = /usr/sbin/in.tftpd
    server_args = -s /var/lib/tftpboot
    disable = no
}
```

- **apache2**

- Install

```
apt-get install apache2
```

- Config

```
$ cat /etc/apache2/apache2.conf # Sample, please replace IP related
with yours
.....
ServerName 192.168.200.1
.....
<Directory /var/www/>
    Options Indexes FollowSymLinks
    AllowOverride None
    Require all granted
</Directory>
.....
```

- AOE

- Install

```
apt-get install vblade
```

3. Set root dir of tftp as a softlink of apache2, to simplify the config path

Before this step, suggest backup the current root dir of apache2, like below:

```
mv /var/www/html /var/www/html_bak_`date +%s` # Backup current root dir of
apache2
ln -s /var/lib/tftpboot /var/www/html
/etc/init.d/apache2 restart
```

4. Copy files and subfolders under tftpboot into /var/lib/tftpboot

```
cp -rf tftpboot /var/lib/
```

5. Register VMs into PXE environment with json file as config

Below is a sample of json config, please note that the config must apply json format.

```
$ cat vm.json
[
  {
    "hostname": "auto-60-1",
    "version": "6.3",
    "pxe_mac": "00:50:56:a7:ca:ab",
    "pxe_filename": "pxelinux.6",
    "pxelinux.cfg": {
      "vesamenu": "bigtera60/vesamenu.c32",
      "vmlinuz": "bigtera60/vmlinuz",
      "initrd": "bigtera60/initrd.aoecdrom.gz",
      "pxeint": "eth2",
      "httpurl": "192.168.200.1",
      "aoecdrom": "e1.0"
    },
    "netconf": {
      "pub_ip": "172.17.59.101",
      "pub_mask": "255.255.254.0",
      "pub_dev": "eth0",
      "pub_gw": "172.17.59.254",
      "dns_ip": "114.114.114.114",
      "stor_ip": "192.168.100.101",
      "stor_mask": "255.255.255.0",
      "stor_dev": "eth1"
    }
  },
  {
    "hostname": "auto-60-2",
    .....
  }
]
```

Register VM with earlier config:

```
sudo ../register_new_vm.py -i vm.json
```

For more details, please refer to the automation deployment guide.