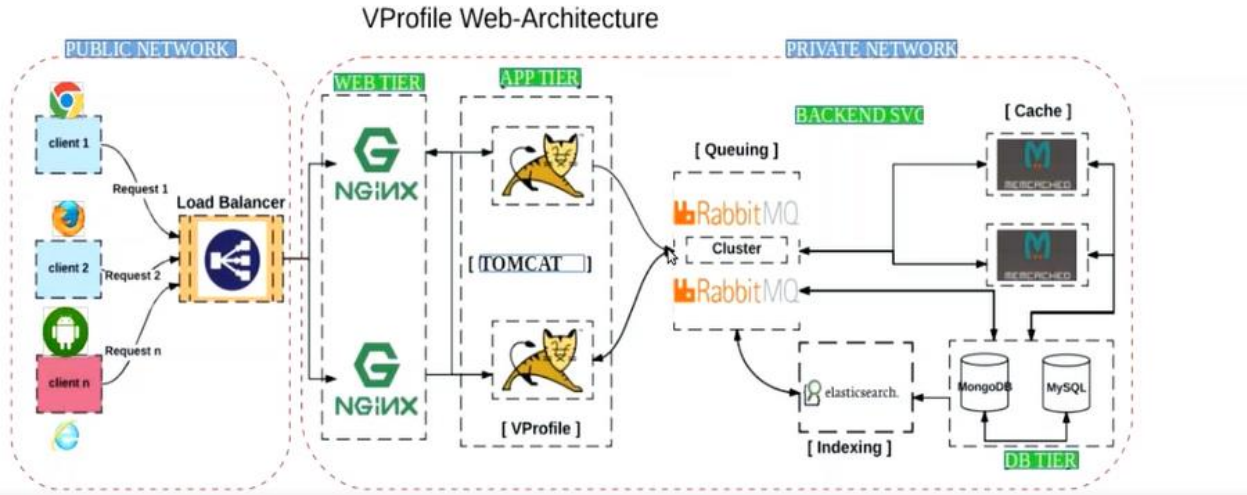
My Own Web Application Architecture :



We need 6 systems

Ansible

Nginx

Tomcat

Memcache

RabbitMQ

MySql

Key should be : vprofileappNCali.pem

After creating 6 systesm we have to copy that pem files to our Ansible system using below command.

scp -i vprofileappNCali.pem vprofileappNCali.pem vpro-ansible-repo.zip ubuntu@54.67.59.198:/home/ubuntu

log into Ansible server and unzip the file which was moved.

sudo apt-get install unzip

unzip vpro-ansible-repo.zip

ls

cd vpro-ansible-repo

cd ..

cp vprofileappNCali.pem vpro-ansible-repo/

chmod 400 vprofileappNCali.pem

vi int-vprohosts

```
[vprohosts:vars]
ansible_ssh_user=ubuntu
ansible_ssh_private_key_file=vprofilesshkey.pem
#ansible_python_interpreter=/usr/bin/python2.7
ansible_python_interpreter=/usr/bin/python3
```

Ansible_ssh_private_key_file should be updated with your pem file called vprofileappNCali.pem.

And one more setting we have to do for interpreter.

ansible –m ping all

```
ubuntu@ip-172-31-15-41:~/vpro-ansible-repo$ ansible -m ping all
cntl | SUCCESS => {
    "changed": false,
    "ping": "pong"
}
mq01 | SUCCESS => {
    "changed": false,
    "ping": "pong"
}
lb01 | SUCCESS => {
    "changed": false,
    "ping": "pong"
}
app01 | SUCCESS => {
    "changed": false,
    "ping": "pong"
}
mc01 | SUCCESS => {
    "changed": false,
    "ping": "pong"
}
db01 | SUCCESS => {
    "changed": false,
    "ping": "pong"
}
ubuntu@ip-172-31-15-41:~/vpro-ansible-repo$
```

Ubuntu 16.04 bydefault interpreter is python3 but with that most of things are not working so initially we are making python3 as interpreter and then we are going to install python2.7 on all connected hosts.

Then we are going back to host inventory file and changing to python2.7 and disable python3

ansible –m apt –a “name=python2.7 state=present” – -sudo all

```
ubuntu@ip-172-31-15-41:~/vpro-ansible-repo$ ansible -m apt -a "name=python2.7 state=present" --sudo all
[DEPRECATION WARNING]: The sudo command line option has been deprecated in favor of the "become" command line
arguments. This feature will be removed in version 2.6. Deprecation warnings can be disabled by setting
deprecation_warnings=False in ansible.cfg.
cntl | SUCCESS => {
    "cache_update_time": 1525916329,
    "cache_updated": false,
    "changed": false
}
app01 | SUCCESS => {
    "cache_update_time": 1525914629,
    "cache_updated": false,
    "changed": false
}
mc01 | SUCCESS => {
    "cache_update_time": 1525914635,
    "cache_updated": false,
    "changed": false
}
lb01 | SUCCESS => {
    "cache_update_time": 1525914632,
    "cache_updated": false,
    "changed": false
}
mq01 | SUCCESS => {
    "cache_update_time": 1525914628,
    "cache_updated": false,
    "changed": false
}
db01 | SUCCESS => {
    "cache_update_time": 1525914636,
    "cache_updated": false,
    "changed": false
}
ubuntu@ip-172-31-15-41:~/vpro-ansible-repo$
```

vi int-vprohosts

```
[vprohosts:vars]
ansible_ssh_user=ubuntu
ansible_ssh_private_key_file=vprofileappNCali.pem
ansible_python_interpreter=/usr/bin/python2.7
#ansible_python_interpreter=/usr/bin/python3
-- INSERT --
```

Now we just installed python 2.7 and we putting samething in host inventory file.

We are going create host names for all systems for that we have to run using our playbook.

Ansible-playbook hostfile.yml

Then run site.yml

Nginx pubic dbs:vprofile and enter in web url

Rabitmq test:

Ipaddress:15672 -- this we can check under template folder applications.j2 file

Dbcheck:

mysql –h db01 –u admin –p

enter password:

show databases;

use accounts;

show tables;

gather_facts: False

cache_valid_time: 86400