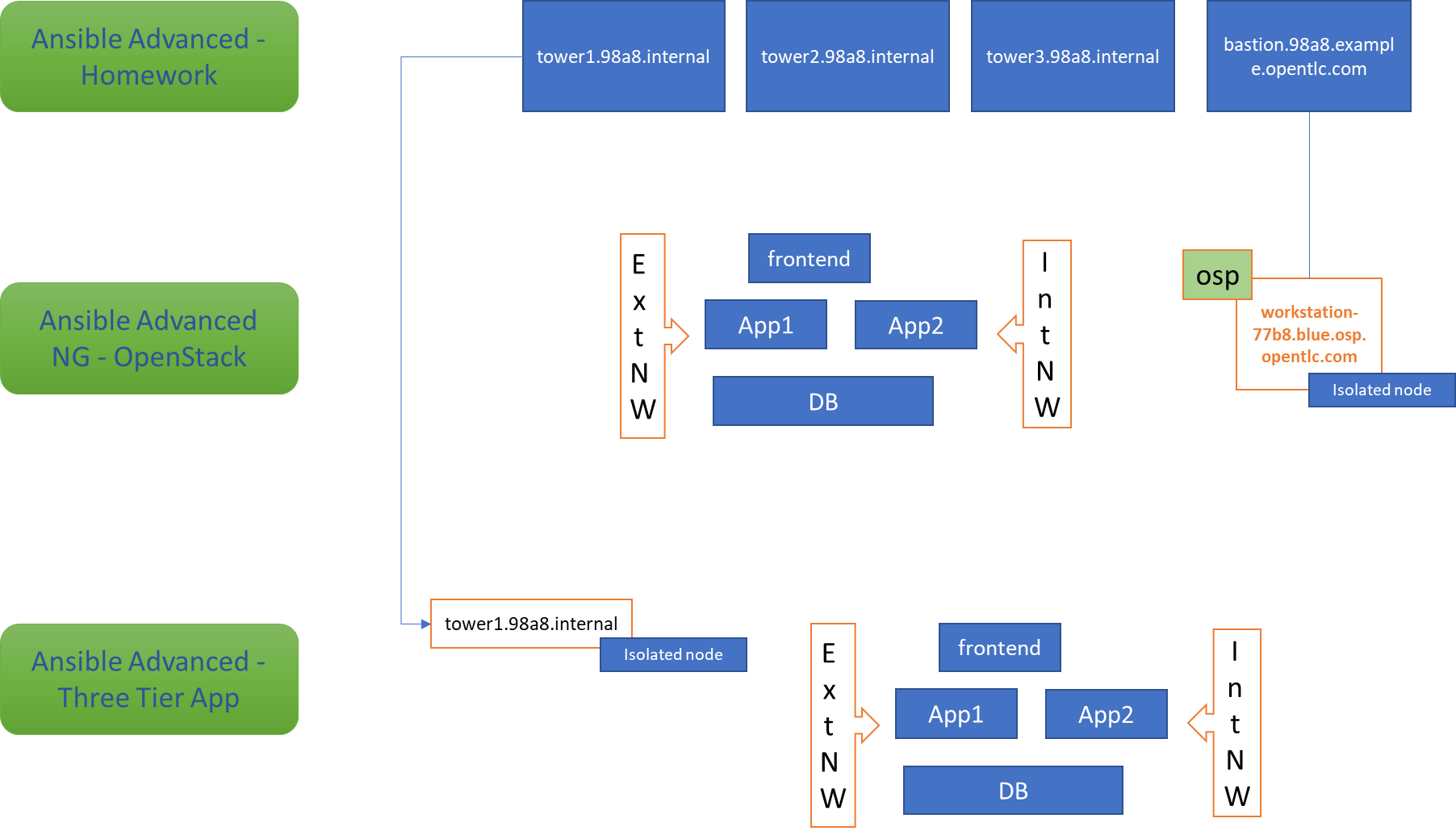
1. Environment Details
   * Ansible Advanced - Homework
     + Tower host: workstation-${OSP\_GUID}.${OSP\_DOMAIN}
     + https://tower(1-3).{{TOWER\_GUID}}.example.opentlc.com
     + UserName: admin
     + Password: r3dh4t1!
     + SSH host: admin.na.shared.opentlc.com
     + targetHost: bastion.98a8.example.opentlc.com
     + GUID 98a8
     + https://tower1.98a8.example.opentlc.com/#/login
     + tower1.98a8.internal
     + tower2.98a8.internal
     + tower3.98a8.internal

* + Ansible Advanced NG – OpenStack
    - Tower Isolated host: 77b8.blue.osp.opentlc.com
    - Environment Info 001 - http://horizon-77b8.blue.osp.opentlc.com:80
    - Environment Info 002 - horizon-77b8.blue.osp.opentlc.com port 6080
    - Environment Info 003 - horizon-77b8.blue.osp.opentlc.com port 5000
    - Environment Info 004 - workstation-77b8.blue.osp.opentlc.com port 22
    - dattaram.ghatage-atos.net@workstation-77b8.blue.osp.opentlc.com
    - gwYswfPqn6we
  + Third Environment will be created from the playbooks
    - # ordered via aws\_provision.yml
    - GUID, is: 87ca
    - ssh -i ~/.ssh/your\_private\_key\_name dattaram.ghatage-atos.net@bastion.87ca.example.opentlc.com
    - targetHost bastion.87ca.example.opentlc.com



Raw representation

1. Lab Setup
   * For windows use puttygen and generate Public and private key for windows machine, store private key on directory. "C:\dattaram.ghatage.ppk"
   * open https://account.opentlc.com/update and paste the PUB key and update it
   * Logon to Ansible Advanced – Homework workstation - bastion.98a8.example.opentlc.com using private key in Auth
   * sudo -i # to go to root prompt
   * on root prompt
     1. *git clone https://github.com/dvg0/nextgen\_ansible\_advanced\_homework.git*
     2. *cd nextgen\_ansible\_advanced\_homework*/
     3. cp *labrc* ~/

* + 1. *vi ~/labrc*

*export OPENTLC\_ID=dattaram.ghatage-atos.net*

*export OSP\_DOMAIN=blue.osp.opentlc.com*

*export OSP\_GUID=77b8*

*export TOWER\_GUID=98a8*

*export OPENTLC\_PASSWORD=ShreeR@m0707*

*export GITHUB\_REPO=https://github.com/dvg0/nextgen\_ansible\_advanced\_homework.git*

*export JQ\_REPO\_BASE=http://www.opentlc.com/download/ansible\_bootcamp*

*export REGION=us-east-1*

*export MAIL\_ID=dattaram.ghatage@atos.net*

<Save and exit>

* + 1. *cat ~/labrc*
    2. *source ~/labrc*

# Setup site-setup-prereqs playbook

* + *ansible-playbook site-setup-prereqs.yaml -k*
  + *SSH password: <type password>*

# Connect to workstation and verify

* + *ssh -i /root/.ssh/openstack.pem cloud-user@workstation-${OSP\_GUID}.${OSP\_DOMAIN}*

hostname # to verify hostname -> workstation-77b8.blue.osp.opentlc.com

*exit*  # to exit on bastion root prompt

# openstack

* + *http://horizon-77b8.blue.osp.opentlc.com/dashboard/project/de*
  + *admin*
  + *r3dh4t1!*
  + verify all the details as per the document shared

1. Use case

# 1. Install a workstation as an isolated node

# 2. Develop playbooks to provision a QA environment running on RHOSP

# 3. Provision a production environment on Amazon Web Services (AWS)

# 4. Deploy a three-tier application

# 5. Run the smoke test

# verify the Ansible isolated node installed

* + vi /root/nextgen\_ansible\_advanced\_homework/roles/config-tower/tasks/post-config-tower.yml
  + ansible-playbook site-config-tower.yml -e tower\_GUID=${TOWER\_GUID} -e osp\_GUID=${OSP\_GUID} -e osp\_DOMAIN=${OSP\_DOMAIN} -e opentlc\_login=${OPENTLC\_LOGIN} -e path\_to\_opentlc\_key=/root/.ssh/openstack.pem -e param\_repo\_base=${JQ\_REPO\_BASE} -e opentlc\_password=${OPENTLC\_PASSWORD} -e REGION\_NAME=${REGION} -e EMAIL=${MAIL\_ID} -e github\_repo=${GITHUB\_REPO}

# post successful run visit tower https://tower1.98a8.example.opentlc.com/ and check templated, you will see all the templates

# *edit site-osp-instances.yml* - you will see the osp-servers roles. create roles and update files

*/root/nextgen\_ansible\_advanced\_homework/roles/osp-servers/tasks*

*create app1.yml*

*app2.yml*

*db.yml*

*frontend.yml*

*main.yml*

*/root/nextgen\_ansible\_advanced\_homework/roles/osp-servers/vars*

*main.yml*

#verify above file

# run template 02\_Provision QA Env from tower console

# check the instance get created in Open stack console

# create the tier3 sites - modify roles, tasks and tiers. modify and update these files

*site-3tier-app.yml*

*../../app-tier/tasks/main.yml*

*../../app-tier/templates/index.html.j2*

*../tasks/main.yml*

*../../lb-tier/handlers/main.yml*

*../../lb-tier/tasks/main.yml*

*../../lb-tier/templates/haproxy.cfg.j2*

*../../lb-tier/vars/main.yml*

# Run the smoke test

*site-smoke-osp.yml*

# from the workstation download the scripts/common (if environment is not already created then its not required to download these files)

*mkdir ~/bin*

*wget http://www.opentlc.com/download/ansible\_bootcamp/scripts/common.sh*

*wget http://www.opentlc.com/download/ansible\_bootcamp/scripts/jq-linux64 -O ~/bin/jq*

*wget http://www.opentlc.com/download/ansible\_bootcamp/scripts/order\_svc.sh*

*chmod +x order\_svc.sh ~/bin/jq common.sh*

create *credential.rc* file in

*export username=dattaram.ghatage-atos.net*

*export password=ShreeR@m0707*

*export uri=https://labs.opentlc.com*

# Run the template cicd\_workflow template and troubleshoot the playbooks and keep uploading the repository

# Git update to sync

git status

git add .

git commit -m " commment "

git push

final lab status

