Linux Commands Used to Create Azure Virtual Network:

**Install the Docker Container**

**SSH into the JumpBox**

SSH into the jumpbox:

From the remote computer open a bash session:

ssh [azureuser@23.99.190.121](mailto:azureuser@23.99.190.121)

When prompted to continue type: yes

**At the Jump Box command prompt:**

sudo su

enter the password for the azureuser (or administrator username/password)

apt-get update

apt install docker.io

systemctl status docker

**Install Docker**

docker pull cyberxsecurity/ubuntu:bionic

docker run -ti bionic/ubuntu bash

List all containers created on the JumpBox

docker container list -a

Container name will be at the end of the screen display

docker container start <container name>

docker pspasswords

Activate a shell on the container

docker attach <container name>

Generate an ssh key from the ansible container

ssh-key gen

cat ~/.ssh/rsa\_id.pub

Copy the public key to a clipboard and paste into notepad under *ansible ssh.*

**Edit the Ansible.cfg File**

cd /etc/ansible

ls

nano ansible.cfg

Once the ansible.cfg is open in nano press “ctrl w” type “remote\_user”, enter to search.

Uncomment the line and add your user name: (azureuser or ansible)

exit and save

**Edit the hosts file**

nano hosts

“ctrl w” type “webservers”, enter to search.

Add Web servers IP Addresses and ansible\_python\_interpreter=/usr/bin/python3

#

# List the IP Addresses of your webservers

# You should have at least 2 IP addresses

[webservers]

10.0.0.4 ansible\_python\_interpreter=/usr/bin/python3

10.0.0.5 ansible\_python\_interpreter=/usr/bin/python3

#

**Create an ansible playbook**

**On the JumpBox**

*connect to an ansible container.*

docker container list -a

*start the container*

docker start <container name>

*launch a shell*

docker attach <container name>

**Edit a YAML playbook**

nano /etc/ansible/pentest.yml

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* name: Config Web VM with Docker

hosts: web

become: true

tasks:

---

**Install docker.io and python3-pip**

* name docker.io

apt:

update\_cache: yes

name: docker.io

state: present

* name: Install pip3

apt:

force\_apt\_get: yes

name: python3-pip

state: present

**Install docker with the ansible pip module**

* name: Install Python Docker Module

pip:

name: docker

state: present

**Install cyberxsecurity/dvwa container**

* name: download and launch a docker webcontainer

docker container:

name: dvwa

image: cyberxsecurity/dvwa

state: started

restart\_policy: always

published\_ports: 80:80

**Run the Ansible Playbook**

ansible-playbook pentest.yml

**SSH into Jumpbox**

ssh [azureuser@23.99.190.121](mailto:azureuser@23.99.190.121)

List all containers created on the JumpBox

docker container list -a

Container name will be at the end of the screen display

docker container start <container name>

docker passwords

Activate a shell on the container

docker attach <container name>

**Edit the hosts file**

nano hosts

“ctrl w” type “webservers”, enter to search.

Add Web-3 servers IP Addresses and ansible\_python\_interpreter=/usr/bin/python3

#

# List the IP Addresses of your webservers

# You should have at least 2 IP addresses

[webservers]

10.0.0.4 ansible\_python\_interpreter=/usr/bin/python3

10.0.0.5 ansible\_python\_interpreter=/usr/bin/python3

10.0.0.6 ansible\_python\_interpreter=/usr/bin/python3

**Ping the web servers from the JumpBox container**

‘ansible all -m ping’ (Ignore ‘[DEPRECIATION WARNINGS]’)

**Run the ansible playbook to configure the new Web-3 VM**

ansible-playbook pentest.yml