

Generate a public key: ssh-keygen

Run `cat ~/.ssh/id_rsa.pub` to display your `id_rsa.pub` key:

Use your command line to SSH to the VM for administration. Windows users should use GitBash

The command to connect is `ssh sysadmin@JumpBox-Public-IP`

Command `sudo -l` : admin user has full sudo permissions without requiring a password.

Creating a container

`Sudo apt install docker.io` Start by installing `docker.io` on your Jump box.

Run `sudo systemctl status docker`

Once Docker is installed, pull the container `cyberxsecurity/ansible`

Run `docker run -ti cyberxsecurity/ansible:latest bash` to start the container.

Run `exit` to quit

launch a new VM from the Azure portal that could only be accessed using a new SSH key from the container running inside your jump box

Run `docker images` to view your image.

`docker run -it cyberxsecurity/ansible /bin/bash` to start your container and connect to it

Run `cat .ssh/id_rsa.pub` to display your public key.

fter your VM launches, test your connection using `ssh` from your jump box Ansible container.

Locate the Ansible config file and hosts file.

`nano /etc/ansible/hosts`

Uncomment the `[webservers]` header line

```
[webservers]
```

```
## alpha.example.org
```

```
## beta.example.org

## 192.168.1.100

## 192.168.1.110

10.0.0.6 ansible_python_interpreter=/usr/bin/python3

10.0.0.7 ansible_python_interpreter=/usr/bin/python3
```

Open the file with `nano /etc/ansible/ansible.cfg` and scroll down to the `remote_user` option

Uncomment the `remote_user` line and replace `root` with your admin username using this format:

```
remote_user = sysadmin
```

Test an Ansible connection using the appropriate Ansible command.

```
ansible -m ping all
```

results:

```
10.0.0.5 | SUCCESS => {
  "changed": false,
  "ping": "pong"
}

10.0.0.6 | SUCCESS => {
  "changed": false,
  "ping": "pong"
}
```

Ansible playbook that installed Docker and configure a VM with the DVWA web application.

connect to the Ansible container in the box

```
docker container list -a
```

```
docker start [container_name].
```

```
docker attach [container_name]
```

Running your playbook should produce an output similar to the following

```
ansible-playbook /etc/ansible/pentest.yml
```

```
sudo docker start your_container_name
```

```
sudo docker attach your_container_name
```

Create a YAML playbook file that you will use for your configuration

```
Nano /etc/ansible/DVWA.yml
```

Example: `check ansible playbook on ansiblevm-Web2.yml`

To test that DVWA is running on the new VM, SSH to the web2 from your Ansible container(JumBox)

```
ssh sysadmin@10.0.0.6
```

Run `curl localhost/setup.php` to test the connection. If everything is working, you should get back some HTML from the DVWA container.

```
## beta.example.org
```

```
## 192.168.1.100
```

```
## 192.168.1.110
```

```
10.0.0.6 ansible_python_interpreter=/usr/bin/python3
```

```
10.0.0.7 ansible_python_interpreter=/usr/bin/python3
```

```
10.0.0.8 ansible_python_interpreter=/usr/bin/python3
```

```
# If you have multiple hosts following a pattern you can specify
```

```
# them like this:
```

Test your Ansible configuration with the Ansible `ping` command.

- Run `ansible -m ping all`

Run `ansible-playbook your-playbook.yml`

• Run `ssh ansible@10.0.0.7`

• Run `curl localhost/setup.php`

SSH

Secure Shell sets up an encrypted connection between two machines. Commands given on the first machine are executed on the second machine and output from the second machine is sent back to the first machine.

The result is the ability to control a remote machine using the command line while keeping all your actions private from any would be attacker or snooper.

ssh-keygen

```
ssh -i mykey.pub admin@10.10.0.4
```

Elkserver commands:

Sudo docker container start [container name]

sudo docker container attach [container name]

to run the playbook command: `root@0e52a6c7f577:/etc/ansible# ansible-playbook roles/filebeat-playbook.yml`

`## alpha.example.org`

`## beta.example.org`

192.168.1.100

192.168.1.110

10.0.0.5 ansible_python_interpreter=/usr/bin/python3

10.0.0.6 ansible_python_interpreter=/usr/bin/python3

[Elk]

10.1.0.4 ansible_python_interpreter=/usr/bin/python3