Check Point
SOFTWARE TECHNOLOGIES LTD.

ONE STEP AHEAD

CheckMates R80.10 Demo – Ansible-Local Setup

Objective: Use the R80.10 RESTful API and Ansible to deploy a gateway from initial setup through policy push

- Switch the admin shell to Bash
- Setup a new interface on the gateway
- Setup DNS and NTP on the gateway
- Run the First Time Wizard on the gateway and reboot
- Setup a new policy in the R80.10 Manager
- Acquire the new gateway in the Manger and setup SIC
- Push the Access Policy followed by the Threat Policy to the gateway
- Delete what you created

Requirements:

1. A R80.10 Management server with the API enabled and an user api_user with the password of vpn123 to be able to run commands against the API
2. A R80.10 Gateway setup with an IP address that is reachable by both the Manager and the Ansible server. **Make sure to take a snapshot after the ip is configured for quick recovery/testing.**
3. A linux install with Ansible installed. Also the Check Point Ansible module is required.
4. VMware ESXi host for the automatic switch of the snapshots of the gateway environment.

Tasks

1. Move the files included in this zip file to a lab or test Ansible server that has the Check Point ansible module setup.
2. Adjust the /etc/ansible/hosts file to add the test gateway to the Gaia inventory. See the ansible_hosts file for an example of the settings needed
3. Adjust the vars.yml file to match your environment for R80.10 login information and subnets you want to use.
4. Adjust the CheckMates_VMware_Revert.yml to your VMware server setup and snapshot and instance

5. Run a quick test to see if Ansible is working in your environment. The ip address that is listed is the gateway that we are changing. This will playbook with change the shell from /etc/cl.ish to /bin/bash and wait 65 seconds.

```
ansible-playbook SetBash.yml --extra-vars "target=10.2.0.159"
```

6. Revert the gateway back to the snapshot that was created

7. Check that the Check Point Ansible module is working by running the following command to create the test policy

```
ansible-playbook R80-CreatePolicy.yml
```


8. If this was successful, then run the following to delete the Policy that was just created.

```
ansible-playbook R80-DeletePolicy.yml
```

9. Now that we have everything in order, we can attempt the install all at once. Run the following ansible script and pass the variables to the script to have the instance created.

```
ansible-playbook CheckMates_R80_Demo.yml --extra-vars
"target=10.2.0.159 interface_ipv4=1.2.3.4 masklength=24
interface=eth1 hostname=CheckMatesGW sickey=vpn123
eth0_ipv4=10.2.0.159 eth1_ipv4=1.2.3.4"
```

   The variables are as follows – Change any of these to match your enviroment

   - Target is the ip address of the gateway we are setting up
   - Interface_ipv4 is the ip address of the second nic of the gateway
   - Masklength is the mask length of the second nic
   - Interface is the interface name we want to configure
   - Hostname is the name we want the gateway to have in R80.10
   - Sickey is the SIC key for the gateway setup in the First Time Wizard
   - Eth0_ipv4 is the ip address used in the gateway creation
   - Eth1_ipv4 is the ip address used in the gateway creation

10. Once the deployment is finished, it can be removed by using the following delete script

```
ansible-playbook CheckMates_R80_Demo_Delete.yml --extra-vars
"hostname=CheckMatesGW"
```

    The variable hostname refers to the R80 Gateway name that was created in the playbook from step 9.

