Ansible Configuration and Deploy Thin Clients

How to Create Ansible server, inventory and run the tasks ?

Ansible Server Creation:

- Ansible can run on various operating systems, including Linux distributions like Ubuntu, CentOS, or Red Hat Enterprise Linux (RHEL). Choose an
 operating system that you are familiar with and that is supported by Ansible.
- Install the (Linux Debian or Ubuntu) Operating system
- Then Run the below Mentioned the command
 - o root@debian:~# cd /
 - o root@debian:~# apt update
 - o root@debian:~# sudo apt install nano
 - o root@debian:~# apt install python3
 - o root@debian:~# apt-get install python3 python3-pip -y
 - o root@debian:~# sudo apt-get update
 - o root@debian:/# sudo apt-get install ansible -y
 - o root@debian:/# ansible --version
 - ansible 2.10.8 (Checke the Version Ansible installed or not)
 - $^{\circ}\ \ root@debian:/\#\ wget\ https://raw.githubusercontent.com/ansible/ansible/stable-2.11/examples/ansible.cfg$
 - o root@debian:/# mkdir win_ssh
 - o root@debian:/# cd win_ssh/
 - o raghu@debian:/win_ssh\$ touch host.inils
- Once run this command Ansible will installed on the server

Ansible Inventory File:

- · Once Installed the Ansible Server the go the host.ini file
 - o root@debian:/win_ssh# nano host.ini
 - The Host Inventory file must be there in below mentioned the refernce format only

```
GNU nano 5.4
[win]
10.20.106.5

win:vars]
ansible_user=User
ansible password=User
ansible connection=ssh
ansible_shell_type=cmd
ansible_shell_type=cmd
ansible_ssh_common_args=-o StrictHostKeyChecking=no -o UserKnownHostsFile=/dev/null
ansible_sh retries=3
ansible_become_method=runas
```

- [win] ----- Host Group name .we can add any name like [windowsoutlet] No Space
 - 10.20.106.5 ------ Client IP address (Windows or Linux machine IP address), we can add multiple IP addresses.
- [win:vars] ------ win belongs to the host group name. For example: if we use the host group name [windowsoutlet], [windowsoutlet:vars] must be used.
 - ansible_user=User ----- Enter the Thin client user Name
 - ansible_password=User -- Enter the Thin client user Name
 - ansible_connection=ssh Remote Connection.We are using ssh only keep like that.
 - ansible_shell_type=cmd Keep like this
 - ansible_ssh_common_args=-o StrictHostKeyChecking=no -o UserKnownHostsFile=/dev/null Keep like this
 - ansible_ssh_retries=3 Keep like this
 - ansible_become_method=runas Keep like this
- Once this file is ready, press CTRL+S & CTRL+X
- o then check whether Ansible can reach the host or not
 - Run this command on the Ansible machine:

· root@debian:/win_ssh# ansible win -i host.ini -m win_ping

```
root@debian:/win_ssh# ansible win -i host.ini -m win_ping
10.20.104.22 | SUCCESS => {
    "changed": false,
    "ping": "pong"
}
root@debian:/win_ssh#
```

• If Ansible can reach the host, it displays SUCCESS Msg.

Ansible Task Creation using Playbook YAML:

- Create New file (root@debian:/win_ssh# touch DesktopforHP.yml) or (root@debian:/win_ssh# nano DesktopforHP.yml)
- o then create the task with the yaml programme
 - Refernce Document URL: Ansible Modules
 - Example YAML Programme:

```
- name: Run executable and restart on Windows host
hosts: win
gather_facts: false
tasks:
- name: Run PowerShell script
| win_shell: powershell.exe -txecutionPolicy Bypass -File 'C:\openssh\HP Disable filter.ps1'

- name: Restart the system
| win_shell: shutdown /r /f /t 0
| async: 0
| poll: 0

- name: Nait for system to come back online
| wait_for_connection:
| delay: 30
| timeout: 300

- name: Create directory
| win_file:
| path: 'C:\Test'
| state: directory
| - name: Copy wallpaper image
| win_copy:
| state: directory
| state: directory
| state: directory
| name: Set Wallpaper using PowerShell
| win_shell: |
| $key = 'HKCU:\Control Panel\Desktop'
| Set.!temProperty -Path $key - Name Wallpaper -Value "C:\Test\image test.jpg"
| rundi32.exe user32.dll.pdatePerUserSystemParameters

- name: Run PowerShell script
| win_shell: powerShell script |
| win_shell: powerShell.exe -ExecutionPolicy Bypass -File 'C:\openssh\HP Enable Filter.ps1'

- name: Restart the system |
| win_shell: shutdown /r /f /t 0 |
| async: 0 |
| poll: | o
```

 $^{\circ}~$ Once this file is ready, press CTRL+S & CTRL+X

Deploy the task YAML file to all Thin Clients :

Once the host inventory and YAML task file have been created, run the task with this Command
 root@debian:/win_ssh# ansible-playbook -i host.ini DesktopforHP.yml

root@debianr/win_smh# ansible-playbook -i bost.ini GesktopforNF.yml
FLAY (Run executable and restart on Windows host)
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ANC (Barata the system) Ancepter (10-7-10-8-22)
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IRE [for Mailpege using Bourfail]
IAR (Bas NovelBell, settin)
ARK (Bester the system) magnetic (10-10-10-10)
AN ESS.
ment deductivita, self []

O After run that command the task is executed. See the Reference Image above image above