# **Windows Ansible Connection by winrm**

### Step1: Create Two Ec2 Instances (Windows & Linux) on AWS.

- 1) Start Linux server with putty and execute below commands.
  - 1)Update Linux server
  - \$ sudo apt-get update
  - 2) upgrade
  - \$ sudo apt-get upgrade -y
  - 3) Install Prerequisites for ansible installation
  - \$ sudo apt install software-properties-common
  - 4) Add the Ansible Personal Package Archive (PPA)
  - \$ sudo add-apt-repository --yes --update ppa:ansible/ansible
  - 5) Install Ansible
  - \$ sudo apt install ansible
  - 6) Verify the Installation
  - \$ ansible --version
  - 7) Install 'python3-venv'
  - \$ sudo apt install python3-venv
  - 8)Create a Virtual Environment
  - \$ python3 -m venv myenv
  - 9) Activate the Virtual Environment
  - \$ source myenv/bin/activate
  - 10) Install pywinrm within the Virtual Environment
  - \$ pip install pywinrm
  - 11) Deactivate the Virtual Environment
  - \$ deactivate
  - 12) Create one directory

```
$ mkdir windows ansible
        13) Create host file inside directory
        $ vi hostfile
        Note: Enter below host contain in this hostfile
        [windows]
        windows host ansible host=13.234.66.99
        [windows:vars]
        ansible user=Administrator
        ansible password=0Gi9(v9S=L2$1A72P)y)wJ0*jT68L-jM
        ansible port=5985
        ansible connection=winrm
        ansible winrm transport=basic
        ansible_winrm_scheme=http
        ansible winrm server cert validation=ignore
        Note: below Changes need in the host file.
  Replace 'windows_host ansible_host' with your windows server host
  Replace 'ansible password' with your windows RDP password.
2) Start windows server with RDP and execute below commands.
        1)Enable PowerShell remoting
        # Enable-PSRemoting –Force
        $ winrm quickconfig
        2) Set WinRM service startup type to automatic
        $ Set-Service WinRM -StartupType 'Automatic'
```

Ip.

- 3) Configure WinRM Service
- \$ Set-Item -Path WSMan:\localhost\Service\Auth\Certificate -Value \$true
- \$ Set-Item -Path 'WSMan:\localhost\Service\AllowUnencrypted' -Value \$true
- \$ Set-Item -Path 'WSMan:\localhost\Service\Auth\Basic' -Value \$true
- \$ Set-Item -Path 'WSMan:\localhost\Service\Auth\CredSSP' -Value \$true
- 4) Configure Trusted Hosts
- \$ Set-Item WSMan:\localhost\Client\TrustedHosts -Value "35.154.198.224" -Force
  ---- Note: replace this ip with ansible server public Ip
- 5) Set LocalAccountTokenFilterPolicy
- \$ New-ItemProperty -Name LocalAccountTokenFilterPolicy -Path
  HKLM:\SOFTWARE\Microsoft\Windows\CurrentVersion\Policies\System -PropertyType
  DWord -Value 1 -Force
  - 6) Set Execution Policy to Unrestricted
  - \$ Set-ExecutionPolicy Unrestricted -Force
  - 7) Restart the WinRM service
  - \$ Restart-Service WinRM
  - 8) List the WinRM listeners
  - \$ winrm enumerate winrm/config/Listener

## **Step2: Check Windows Ansible connection:**

**Note:** Open the Linux server where we have installed Ansible and check the connection by using the below command.

Check windows Ansible connection.
 \$ ansible -i hostfile windows -m win\_ping

**Our Expected result:** 

```
(myenv) root@ip-172-31-8-208:/home/ubuntu/Windows_Ansible# ansible -i hostfile windows -m win_ping
windows_host | SUCCESS => {
    "changed": false,
    "ping": "pong"
}
```

### Step3: For test actual connection.

Create an Ansible playbook on a Linux server to **create** a directory and file on windows server, then execute that playbook by using the command below.

Ansible playbook
 \$ vi test\_playbook.yml

---

- name: Create folder and file on Windows desktop

hosts: windows\_host gather\_facts: no

#### tasks:

- name: Create directory on desktop

win\_shell: New-Item -Path "\Desktop\NewFolder" -ItemType Directory

become: yes

become\_user: Administrator

- name: Create file inside the folder

win\_shell: Out-File -FilePath "\Desktop\NewFolder\example.txt" -InputObject

"Hello, World!" become: yes

become user: Administrator

2) Execute ansible playbook

\$ ansible-playbook –i hostfile test\_playbook.yml

Note: After executing the playbook successfully, you can check the results on your Windows server at the specified location.

#### Step4: Remove created directory and file from windows.

Create an Ansible playbook on a Linux server to **remove** a directory and file from windows server, then execute that playbook by using the command below.

Ansible playbook
 \$ vi remove\_folder\_file.yml

---

- name: Delete folder and file on Windows desktop

hosts: 13.201.185.247

gather\_facts: no

#### tasks:

 name: Delete file inside the folder win\_shell: Remove-Item -Path

"C:\Users\Administrator\Desktop\NewFolder\example.txt" -Force

become: yes

become user: Administrator

ignore\_errors: yes # Ignore errors if the file does not exist

- name: Delete directory on desktop

win\_shell: Remove-Item -Path "C:\Users\Administrator\Desktop\NewFolder" -

Recurse -Force

become: yes

become\_user: Administrator

ignore\_errors: yes # Ignore errors if the folder does not exist

2) Execute ansible playbook

\$ ansible-playbook –i hostfile remove\_folder\_file.yml

Note: After executing the playbook successfully, you can check the results on your Windows server at the specified location.

