What are we going to see in this session?

- Introduction & Setting up Winrm in windows machine
- Prepare your inventory file
- Let's do some tasks in your window's remote server

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Introduction & Setting up Winrm in windows machine

- Winrm stands for Window Remote Management.

- Ansible majorly uses Winrm for all remote operations on windows target servers.

- All windows machines are by default shipped with Winrm module.

- If incase you don't find Winrm in your windows server, you can always install it with below command.

  winrm quickconfig

- This command will install Winrm if it is not available.

- To have a better connection, Ansible recommends to run this script, which will not only enable WinRM, but also install some necessary certificates for the connection to work.

- You can copy the file from this Github link and run it as PowerShell script with .ps1 extension.

Introduction & Setting up Winrm in windows machine

```
PS C:\Users\Administrator\Documents> .\ConfigureRemotingForAnsible.ps1
Self-signed SSL certificate generated; thumbprint: 932C1BB95020E031539544E47A15E1348D1B8E5F

wxf                 : http://schemas.xmlsoap.org/ws/2004/09/transfer
a                   : http://schemas.xmlsoap.org/ws/2004/08/addressing
w                   : http://schemas.dmtf.org/wbem/wsman/1/wsman.xsd
lang                : en-US
Address             : http://schemas.xmlsoap.org/ws/2004/08/addressing/role/anonymous
ReferenceParameters : ReferenceParameters

Ok.
```

- By default, Winrm uses 5985 for HTTP call & 5986 for HTTPs call.

- Ansible uses HTTPs to have secure communication thus the port number used here for connection is 5986.

- For Linux machine you just need to install winrm python module - pip install pywinrm

Prepare your inventory file

How your inventory file look like?

[win]

13.235.56.213

[win:vars]

ansible_user=administrator

ansible_password=*m-@=EpspC6

ansible_connection=winrm

ansible_winrm_server_cert_validation=ignore

Let's do some tasks in your window's remote server

Run basic ping :

ansible win -m win_ping (Old version)

ansible-galaxy collection install ansible.windows

ansible win -m ansible.windows.win_ping (New version)

Let's Copy some files : win_copy or ansible.windows.win_copy (New version)

 tasks:

    - name: Copy a single file

      ansible.windows.win_copy

        src: windows_file

        dest: C:\Users\Administrator\Documents\windows_file

End of this topic !

Any questions?