Connecting Windows Host machine with Ansible

**WINRM Setup for Ansible**

<https://docs.ansible.com/ansible/devel/user_guide/windows_setup.html#winrm-setup>

Details about each component can be read below, but the script [ConfigureRemotingForAnsible.ps1](https://github.com/ansible/ansible/blob/devel/examples/scripts/ConfigureRemotingForAnsible.ps1) can be used to set up the basics. This script sets up both HTTP and HTTPS listeners with a self-signed certificate and enables the Basic authentication option on the service.

To use this script, run the following in PowerShell:

$url = "https://raw.githubusercontent.com/ansible/ansible/devel/examples/scripts/ConfigureRemotingForAnsible.ps1"

$file = "$env:temp\ConfigureRemotingForAnsible.ps1"

(New-Object -TypeName System.Net.WebClient).DownloadFile($url, $file)

powershell.exe -ExecutionPolicy ByPass -File $file

**WINRM Listener**

The WinRM services listens for requests on one or more ports. Each of these ports must have a listener created and configured.

To view the current listeners that are running on the WinRM service, run the following command:

winrm enumerate winrm/config/Listener

This will output something like the following:

Listener

Address = \*

Transport = HTTP

Port = 5985

Hostname

Enabled = true

URLPrefix = wsman

CertificateThumbprint

ListeningOn = 10.0.2.15, 127.0.0.1, 192.168.56.155, ::1, fe80::5efe:10.0.2.15%6, fe80::5efe:192.168.56.155%8, fe80:**:**

ffff:ffff:fffe%2, fe80::203d:7d97:c2ed:ec78%3, fe80::e8ea:d765:2c69:7756%7

Listener

Address = \*

Transport = HTTPS

Port = 5986

Hostname = SERVER2016

Enabled = true

URLPrefix = wsman

CertificateThumbprint = E6CDAA82EEAF2ECE8546E05DB7F3E01AA47D76CE

ListeningOn = 10.0.2.15, 127.0.0.1, 192.168.56.155, ::1, fe80::5efe:10.0.2.15%6, fe80::5efe:192.168.56.155%8, fe80:**:**

ffff:ffff:fffe%2, fe80::203d:7d97:c2ed:ec78%3, fe80::e8ea:d765:2c69:7756%7

**Installing pywinrm in Ansible control machine**

Run the below command to install pywinrm

sudo pip install pywinrm

**Inventry configuration**

Just so you can see it in one place, here is an example host file (please note, some details for your particular environment will be different):

[win]

172.16.2.5

172.16.2.6

[win:vars]

ansible\_user=administrator

ansible\_password=password

ansible\_connection=winrm

ansible\_winrm\_server\_cert\_validation=ignore

**Verify the connection**

To do this go to your control node’s terminal and type

ansible [host\_group\_name\_in\_inventory\_file] -i hosts -m win\_ping

