

Connecting to Windows Hosts Using Ansible

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Why use ansible on Windows hosts?

- Managing services
- Running PowerShell scripts and cmdlets
- Install and manage software packages
- Run or manage updates
- Configuring servers/workstations
- Create/delete users
- Most other stuff you do on servers & workstations



Basic requirements to connect

Control Machine:

- Linux able to run ansible
- Latest ansible
- Latest pywinrm

```
pip install pywinrm
```

Windows Targets:

- Win 7 SP1 or Win Server 2008 SP1 (or later)
- WinRM connections allowed (by the Control Machine at least)



Remote Management must be enabled

WinRM ships with Windows but remote management isn't enabled by default. There's a PowerShell script to enable remote management on a host (must be run as admin): https://raw.githubusercontent.com/ansible/ansible/devel/examples/scripts/ConfigureRemotingForAnsible.ps1



Windows connection variables

Required:

ansible_connection: winrm

Additional variables:

ansible_winrm_server_cert_validation: [ignore, validate]

ansible_port: [WinRM is usually 5986]

ansible_winrm_transport: [basic, certificate, kerberos, ntlm, credssp]

ansible_winrm_scheme: [http or https]

Other keyword arguments supported by winrm. Protocol are available. Read more:

https://docs.ansible.com/ansible/2.3/intro_windows.html#inventory



Set Win host variables in your Inventory file

Example inventory file for two Windows hosts using vagrant

```
[win]
172.16.2.5
172.16.2.6

[win:vars]
ansible_user=vagrant
ansible_password=password
ansible_connection=winrm
ansible_winrm_server_cert_validation=ignore
```



Test your connection

From the terminal on the Control Machine, type:

```
ansible [host group name in inventory file] -i hosts -m win ping
```

```
Biancas-MacBook-Pro:WinTest bhenderson$ ansible all -i hosts -m win_ping

18.219.79.22 | SUCCESS => {
    "changed": false,
    "ping": "pong"
}
```



Helpful Resources

Windows host requirements:

https://docs.ansible.com/ansible/latest/user_guide/windows_setup.html#host-requirements https://docs.ansible.com/ansible/devel/user_guide/windows_setup.html#common-winrm-issues

WinRM:

https://docs.ansible.com/ansible/latest/user_guide/windows_winrm.html https://docs.microsoft.com/en-us/windows/desktop/WinRM/about-windows-remote-management

FAQ & More Info:

https://docs.ansible.com/ansible/latest/user_guide/windows_faq.html https://docs.ansible.com/ansible/latest/user_guide/windows.html

