

How to configure Windows client setup for Ansible

To Configure Windows client setup for Ansible

Ansible is an open-source automation tool used to manage various configuration and application deployment. It can configure both Unix-like systems as well as Windows systems.

Master Server Requirements:

Windows Requirements:

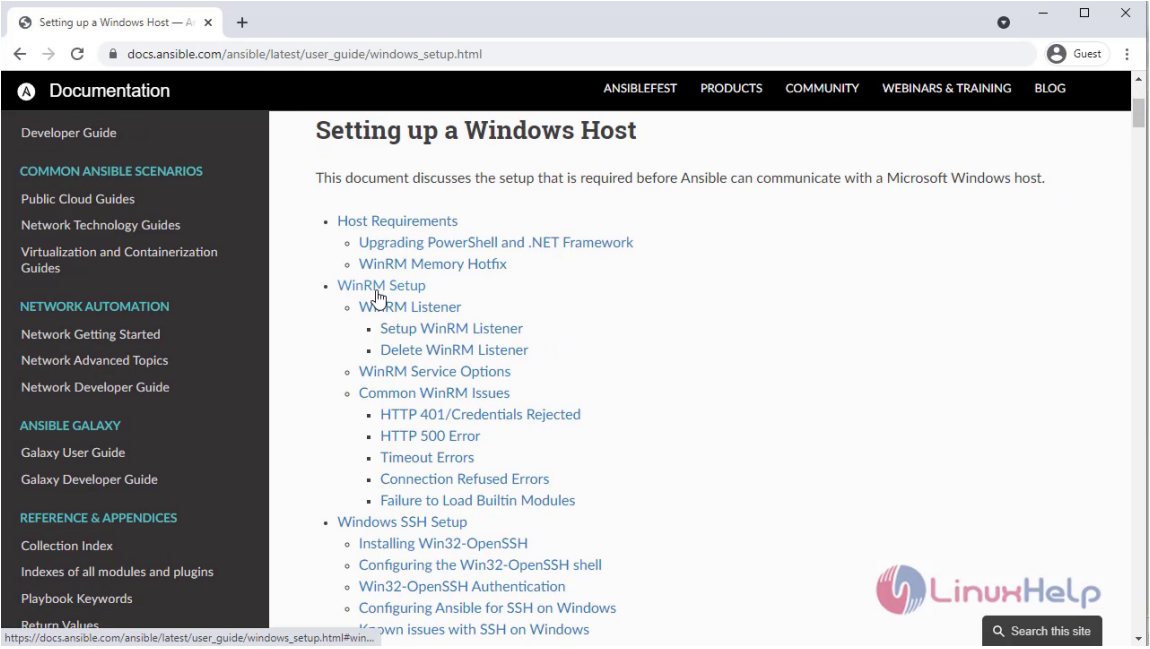
```
PS C:\WINDOWS\system32> $psversiontable
```

Name	Value
PSVersion	5.1.19041.1237
PSEdition	Desktop
PSCompatibleVersions	{1.0, 2.0, 3.0, 4.0...}
BuildVersion	10.0.19041.1237
CLRVersion	4.0.30319.42000
WSManStackVersion	3.0
PSRemotingProtocolVersion	2.3
SerializationVersion	1.1.0.1

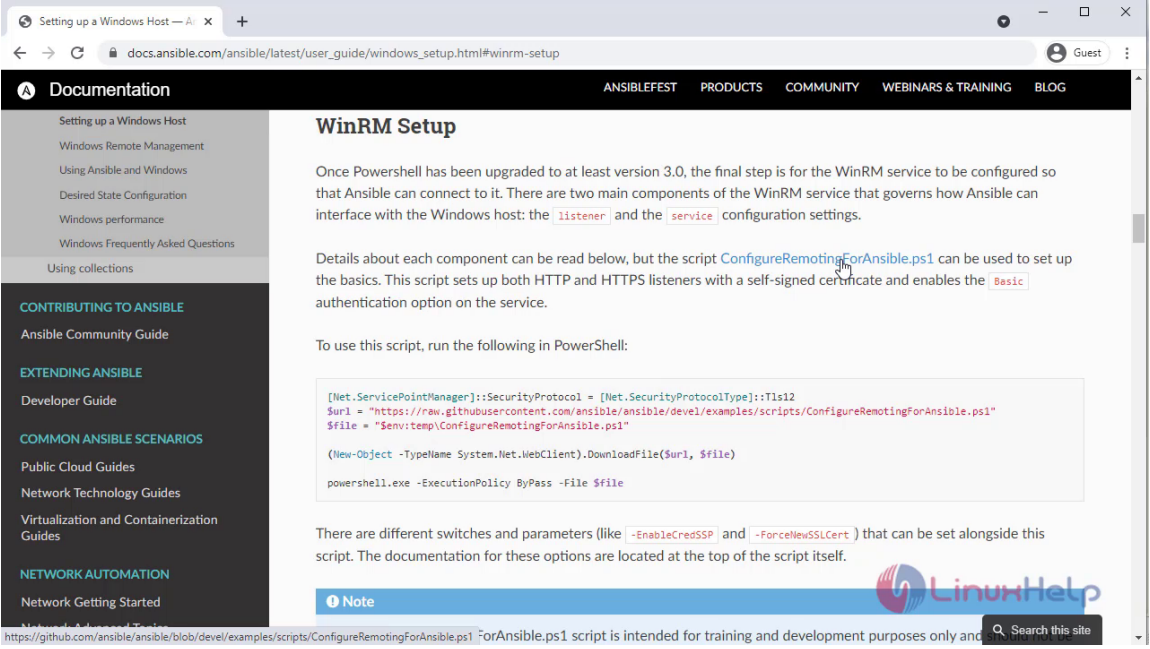
Step 2: Search for “setting up windows host ansible”

Step 3: Click on WinRM setup under "setting up windows host ansible"

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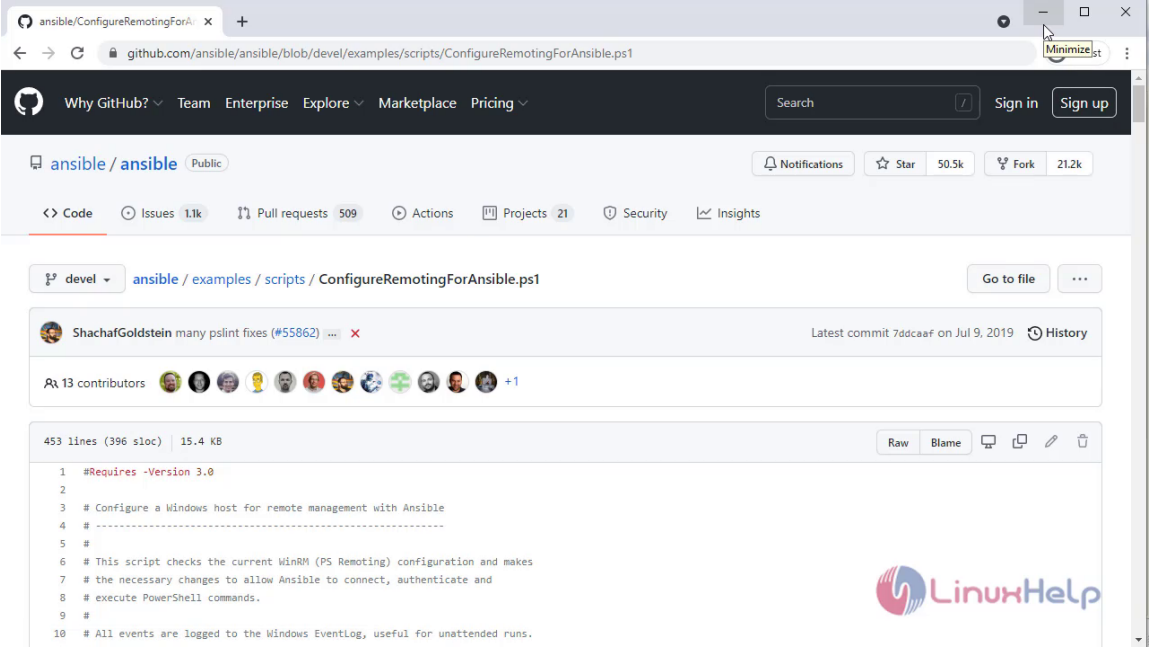


Step 4: Click on Configure Remoting for ansible.ps1



Step 5: Copy the 453 lines of code from ,

<https://github.com/ansible/ansible/blob/devel/examples/scripts/ConfigureRemotingForAnsible.ps1> , Paste 453 lines code in powershell



```
PS C:\WINDOWS\system32> #Requires -Version 3.0

# Configure a Windows host for remote management with Ansible
# -----
#
# This script checks the current WinRM (PS Remoting) configuration and makes
# Written by Trond Hindenes <trond@hindenes.com>
# Updated by Chris Church <cchurch@ansible.com>
# Updated by Michael Crilly <mike@autologic.cm>
# Updated by Anton Ouzounov <Anton.Ouzounov@careerbuilder.com>
# Updated by Nicolas Simond <contact@nicolas-simond.com>
# Updated by Dag Wieërs <dag@wieers.com>
# Updated by Jordan Borean <jborean93@gmail.com>
# Updated by Erwan Quélin <erwan.quelin@gmail.com>
# Updated by David Norman <david@dkn.email>

    Write-Log "Unable to establish an HTTP or HTTPS remoting session."
    Throw "Unable to establish an HTTP or HTTPS remoting session."
}

Write-VerboseLog "PS Remoting has been successfully configured for Ansible."

Self-signed SSL certificate generated; thumbprint: 6A907B378A75304BC269621019110F9A264462DF

wxsf      : 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.
```

Step 6: Checking the master server OS version

```
root@linuxhelp:~# lsb_release -a

No LSB modules are available.

Distributor ID: Ubuntu
Description:    Ubuntu 21.04
Release:        21.04
Codename:       hirsute
```

Step 7: Adding the ansible repository to apt

```
root@linuxhelp:~# apt-add-repository ppa:ansible/ansible

Repository: 'deb http://ppa.launchpad.net/ansible/ansible/ubuntu/ hirsute main'

Description:

Ansible is a radically simple IT automation platform that makes your applications and systems easier
to deploy. Avoid writing scripts or custom code to deploy and update your applications– automate in
a language that approaches plain English, using SSH, with no agents to install on remote systems.

http://ansible.com/

More info: https://launchpad.net/~ansible/+archive/ubuntu/ansible

Adding repository.

Press [ENTER] to continue or Ctrl-c to cancel.

Adding deb entry to /etc/apt/sources.list.d/ansible-ubuntu-ansible-hirsute.list

Adding disabled deb-src entry to /etc/apt/sources.list.d/ansible-ubuntu-ansible-hirsute.list

Adding key to /etc/apt/trusted.gpg.d/ansible-ubuntu-ansible.gpg with fingerprint
6125E2A8C77F2818FB7BD15B93C4A3FD7BB9C367

Hit:1 http://in.archive.ubuntu.com/ubuntu hirsute InRelease
Get:2 http://in.archive.ubuntu.com/ubuntu hirsute-updates InRelease [115 kB]
Get:3 http://in.archive.ubuntu.com/ubuntu hirsute-backports InRelease [101 kB]
Get:4 http://ppa.launchpad.net/ansible/ansible/ubuntu hirsute InRelease [18.1 kB]
Get:5 http://in.archive.ubuntu.com/ubuntu hirsute-updates/main i386 Packages [202 kB]
Hit:6 http://security.ubuntu.com/ubuntu hirsute-security InRelease
Get:7 http://in.archive.ubuntu.com/ubuntu hirsute-updates/main amd64 Packages [406 kB]
Get:8 http://in.archive.ubuntu.com/ubuntu hirsute-updates/main amd64 DEP-11 Metadata
Get:15 http://in.archive.ubuntu.com/ubuntu hirsute-updates/multiverse amd64 DEP-11 Metadata [944 B]
Get:16 http://in.archive.ubuntu.com/ubuntu hirsute-backports/universe amd64 DEP-11 Metadata [9,348
B]
Get:17 http://ppa.launchpad.net/ansible/ansible/ubuntu hirsute/main amd64 Packages [880 B]
Get:18 http://ppa.launchpad.net/ansible/ansible/ubuntu hirsute/main Translation-en [516 B]

Fetched 1,588 kB in 2s (866 kB/s)

Reading package lists... Done
```

Step 8: Update the apt after adding the ansible repository

```
root@linuxhelp:~# apt update

Hit:1 http://in.archive.ubuntu.com/ubuntu hirsute InRelease
Hit:2 http://in.archive.ubuntu.com/ubuntu hirsute-updates InRelease
Hit:3 http://in.archive.ubuntu.com/ubuntu hirsute-backports InRelease
Hit:4 http://ppa.launchpad.net/ansible/ansible/ubuntu hirsute InRelease
Hit:5 http://security.ubuntu.com/ubuntu hirsute-security InRelease

Reading package lists... Done

Building dependency tree... Done

Reading state information... Done

263 packages can be upgraded. Run 'apt list --upgradable' to see them.
```

Step 9: Now install Ansible by using following command

```
root@linuxhelp:~# apt install ansible

Reading package lists... Done

Building dependency tree... Done

Reading state information... Done

The following additional packages will be installed:
  ansible-core python3-jinja2 python3-packaging python3-pyparsing python3-resolvelib sshpass
Suggested packages:
  python-jinja2-doc python-pyparsing-doc
The following NEW packages will be installed:
  ansible ansible-core python3-jinja2 python3-packaging python3-pyparsing python3-resolvelib sshpass
0 upgraded, 7 newly installed, 0 to remove and 263 not upgraded.
Need to get 21.1 MB of archives.
After this operation, 277 MB of additional disk space will be used.
Do you want to continue? [Y/n] y
Get:1 http://in.archive.ubuntu.com/ubuntu hirsute/main amd64 python3-jinja2 all 2.11.2-1 [99.8 kB]
Get:2 http://in.archive.ubuntu.com/ubuntu hirsute/main amd64 python3-pyparsing all 2.4.7-1 [61.4 kB]
Get:3 http://ppa.launchpad.net/ansible/ansible/ubuntu hirsute/main amd64 ansible-core all 2.11.6-1ppa~hirsute [927 kB]
Get:4 http://in.archive.ubuntu.com/ubuntu hirsute/main amd64 python3-packaging all 20.9-2 [29.9 kB]
Get:5 http://in.archive.ubuntu.com/ubuntu hirsute/universe amd64 python3-resolvelib all 0.5.4-1 [21.6 kB]
Get:6 http://in.archive.ubuntu.com/ubuntu hirsute/universe amd64 sshpass amd64 1.09-1 [11.7 kB]
```

Step 10:Installing the python package manger

```
root@linuxhelp:~# apt install python3-pip

Reading package lists... Done

Building dependency tree... Done

Reading state information... Done

The following additional packages will be installed:
  binutils binutils-common binutils-x86-64-linux-gnu build-essential dpkg-dev fakeroot g++ g++-10 gcc
gcc-10 gcc-11-base javascript-common libalgorithm-diff-perl libalgorithm-diff-xs-perl
libalgorithm-merge-perl libasan6 libatomic1 libbinutils libc-dev-bin libc-devtools libc6-dev
libcc1-0 libcrypt-dev libctf-nobfd0 libctf0 libexpat1-dev libfakeroot libgcc-10-dev libgcc-s1
libgomp1 libitm1 libjs-jquery libjs-sphinxdoc libjs-underscore liblsan0 libns1-dev libpython3-dev
libpython3.9 libpython3.9-dev libpython3.9-minimal libpython3.9-stdlib libquadmath0 libstdc++-10-dev
libstdc++6 libtirpc-dev libtsan0 libubsan1 linux-libc-dev lto-disabled-list make manpages-dev
python-pip-whl python3-dev python3-distutils python3-lib2to3 python3-setuptools python3-wheel
python3.9 python3.9-dev python3.9-minimal rpcsvc-proto zlib1g-dev
Suggested packages:
  binutils-doc debian-keyring g++-multilib g++-10-multilib gcc-10-doc gcc-multilib autoconf automake
libtool flex bison gcc-doc gcc-10-multilib gcc-10-locales apache2 | lighttpd | httpd glibc-doc
libstdc++-10-doc make-doc python-setuptools-doc python3.9-venv python3.9-doc binfmt-support
The following NEW packages will be installed:
  binutils binutils-common binutils-x86-64-linux-gnu build-essential dpkg-dev fakeroot g++ g++-10 gcc
gcc-10 javascript-common libalgorithm-diff-perl libalgorithm-diff-xs-perl libalgorithm-merge-perl
libasan6 libatomic1 libbinutils libc-dev-bin libc-devtools libc6-dev libcc1-0 libcrypt-dev
libctf-nobfd0 libctf0 libexpat1-dev libfakeroot libgcc-10-dev libitm1 libjs-jquery libjs-sphinxdoc
libjs-underscore liblsan0 libns1-dev libpython3-dev libpython3.9-dev libquadmath0 libstdc++-10-dev
libtirpc-dev libtsan0 libubsan1 linux-libc-dev lto-disabled-list make manpages-dev python-pip-whl
python3-dev python3-distutils python3-pip python3-setuptools python3-wheel python3.9-dev
rpcsvc-proto zlib1g-dev
The following packages will be upgraded:
  gcc-11-base libgcc-s1 libgomp1 libpython3.9 libpython3.9-minimal libpython3.9-stdlib libstdc++6
python3-lib2to3 python3.9 python3.9-minimal
10 upgraded, 53 newly installed, 0 to remove and 253 not upgraded.
Need to get 56.0 MB/63.3 MB of archives.
After this operation, 216 MB of additional disk space will be used.
Do you want to continue? [Y/n] y
Get:1 http://in.archive.ubuntu.com/ubuntu hirsute/main amd64 binutils-common amd64 2.36.1-6ubuntu1 [217 kB]
```

Step 11:Installing the python package pywinrm by using following command

```
root@linuxhelp:~# pip install pywinrm

Collecting pywinrm
  Downloading pywinrm-0.4.2-py2.py3-none-any.whl (44 kB)
Requirement already satisfied: requests>=2.9.1 in /usr/lib/python3/dist-packages (from pywinrm) (2.25.1)
Collecting requests-ntlm>=0.3.0
  Downloading requests_ntlm-1.1.0-py2.py3-none-any.whl (5.7 kB)
Requirement already satisfied: six in /usr/lib/python3/dist-packages (from pywinrm) (1.15.0)
Collecting xmltodict
  Downloading xmltodict-0.12.0-py2.py3-none-any.whl (9.2 kB)
Collecting ntlm-auth>=1.0.2
  Downloading ntlm_auth-1.5.0-py2.py3-none-any.whl (29 kB)
Requirement already satisfied: cryptography>=1.3 in /usr/lib/python3/dist-packages (from requests-ntlm>=0.3.0->pywinrm) (3.3.2)
Installing collected packages: ntlm-auth, xmltodict, requests-ntlm, pywinrm
Successfully installed ntlm-auth-1.5.0 pywinrm-0.4.
```

Step 12:Adding the windows client in ansible inventory

```
root@linuxhelp:~# vi /etc/ansible/hosts

[windows]
192.168.6.104

[windows:vars]
ansible_user=Admin
ansible_password=Admin@123
ansible_port=5986
ansible_connection=winrm
ansible_winrm_server_cert_validation=ignore
```

Step 13: Checking the connection with the windows client system

```
root@linuxhelp:~# ansible windows -m win_ping

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

Step 14: Creating an ansible playbook for creating a directory

```
root@linuxhelp:~# vi test.yml

- hosts: windows
  gather_facts: true
  tasks:
    - name: create directory
      win_file:
        path: c:\Ansible
        state: directory
```

Step 15: Checking the syntax of the playbook by using following command

```
root@linuxhelp:~# ansible-playbook test.yml --syntax-check

playbook: test.yml
```

Step 16: Run the ansible playbook by using following command

```
root@linuxhelp:~# ansible-playbook test.yml

PLAY                                                                    [windows]
*****

TASK                                                                    [Gathering Facts]
*****

ok: [192.168.6.104]

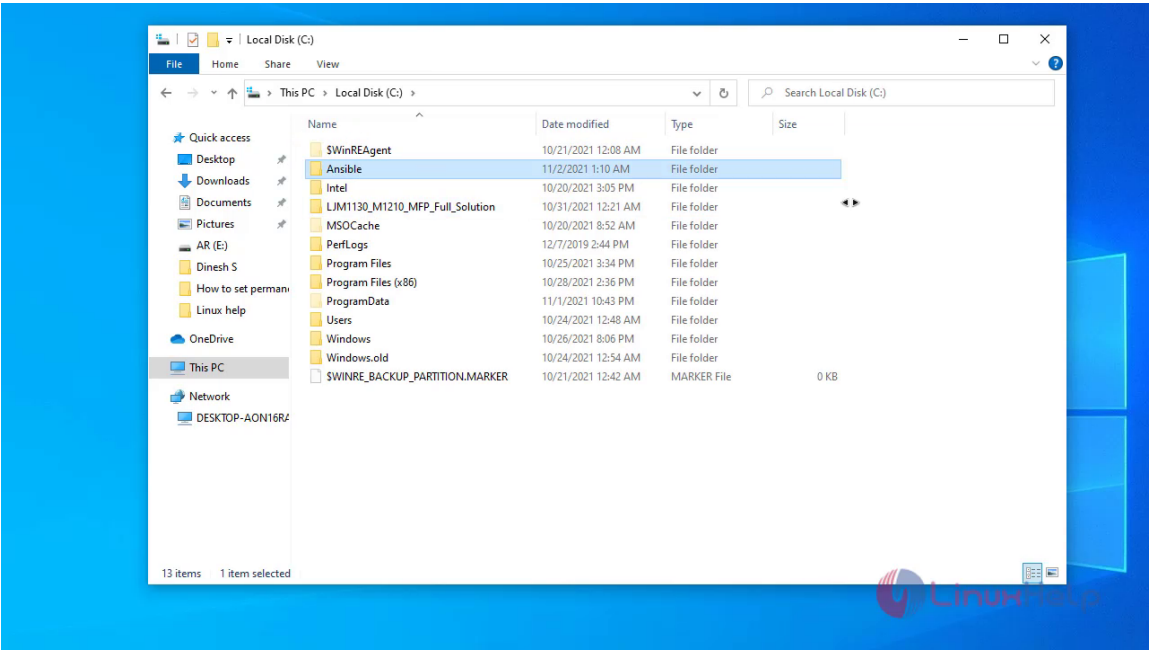
TASK                                                                    [create directory]
*****

changed: [192.168.6.104]

PLAY                                                                    RECAP
*****

192.168.6.104      : ok=2    changed=1    unreachable=0    failed=0    skipped=0
rescued=0    ignored=0
```

Step 17: Hence a folder named “Ansible” is created in windows client system



with this configuration of windows client setup for ansible have been completed.

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Author: [@shanemichel](#)

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Frequently asked questions (5)

- Q** What is a playbook in Ansible ?

A Collection of tasks is known as play and Collection of plays is known as Playbook.
- Q** What is python3-pip

A Pip is a package-management system written in Python used to install and manage python packages.
- Q** What is WinRM ?

A WinRM is a service in windows which is used to communicate remotely.
- Q** How Ansible connect to windows servers ?

A Ansible connects to windows servers by use of WinRM..

Q

Which port does winRM uses ?

A

WinRM uses 5986 port in windows.

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