- Ansible Tips and Tricks: 10+ Ansible Examples to Save Time and Automate
 More Tasks
- Ansible Linux Users & Groups By Examples: 20+ Automation Examples on Linux
 Users and Groups Operation for Modern IT Infrastructure
- Ansible For PostgreSQL by Examples: 10+ Examples To Automate Your
 PostgreSQL database
- Ansible For Amazon Web Services AWS By Examples: 10+ Examples To
 Automate Your AWS Modern Infrastructure

demo

How to configure a Windows Host for Ansible connections.

- Create a user
- verify PowerShell & .NET
- setup WinRM
- create Inventory & Playbook

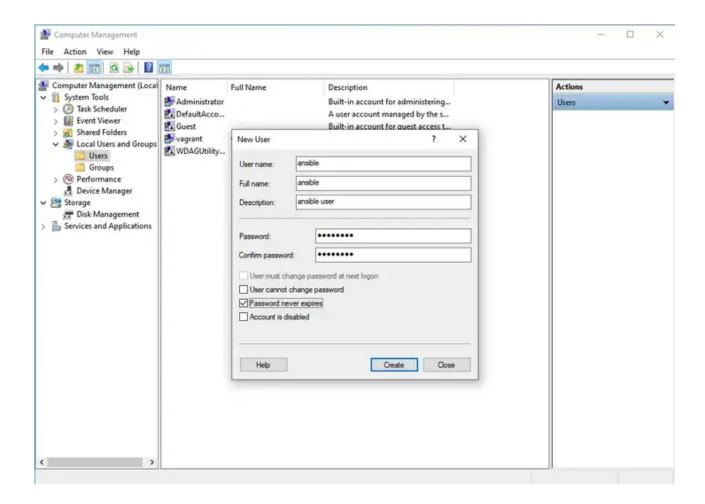
First of all, I'd suggest creating a user to run Ansible automation. This user needs to be Power User or have Administrative privileges in order to execute some Ansible code. Second, you need to verify that PowerShell and .NET versions, modern operating systems already meet the requirements. The most important part is to set up the WinRM. There is a great PowerShell script that sets up both HTTP and HTTPS listeners with a self-signed certificate and enables the Basic authentication option on the service. Once everything is done on the node you could configure the Ansible inventory on the Ansible Controller machine and run your first Ansible Playbook with the `win_ping` module to verify the successful configuration.

Windows node

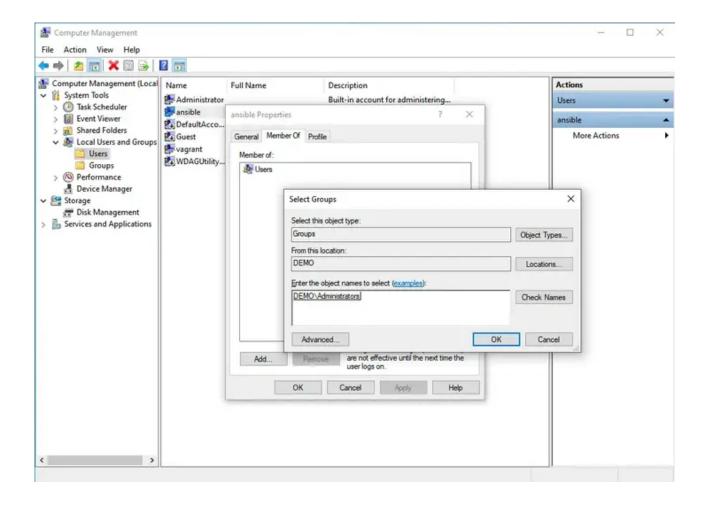
Create an "ansible" user

1. open Computer Management (right-click from "This PC" > "Manage")

2. New User (right-click from "Users" > "New User")
User name: ansible Full name: ansible Description: ansible user Password and
Confirm password: SuperSecurePassword123@ Options: enable `Password never
Confirm password: SuperSecurePassword123@ Options: enable `Password never
Confirm password: SuperSecurePassword123@ Options: enable `Password never
Confirm password: SuperSecurePassword123@ Options: enable `Password never



3. Add "ansible" user to "administrators" Group



Verify PowerShell, .NET and set up WinRM

1. verify PowerShell version

```
Windows PowerShell

Copyright (C) Microsoft Corporation. All rights reserved.

Try the new cross-platform PowerShell https://aka.ms/pscore6

PS C:\Users\vagrant> Get-Host | Select-Object Version

Version

-----

5.1.19041.1237
```

2. verify .NET version

```
PS C:\Users\vagrant> Get-ChildItem 'HKLM:\SOFTWARE\Microsoft\NET Framework Setup\
>>
PSChildName Version
```

```
Client 4.8.04084

Full 4.8.04084

Client 4.0.0.0

PS C:\Users\vagrant>
```

3. Verify WinRM not-configured

```
PS C:\Users\vagrant> winrm get winrm/config/Service
WSManFault
   Message = The client cannot connect to the destination specified in the reque
Error number: -2144108526 0x80338012
The client cannot connect to the destination specified in the request. Verify tha
PS C:\Users\vagrant> winrm get winrm/config/Winrs
WSManFault
   Message = The client cannot connect to the destination specified in the reque
Error number: -2144108526 0x80338012
The client cannot connect to the destination specified in the request. Verify tha
PS C:\Users\vagrant> winrm enumerate winrm/config/Listener
WSManFault
   Message = The client cannot connect to the destination specified in the reque
Error number: -2144108526 0x80338012
The client cannot connect to the destination specified in the request. Verify tha
PS C:\Users\vagrant>
```

4. Setup WinRM

```
PS C:\Users\vagrant> [Net.ServicePointManager]::SecurityProtocol = [Net.SecurityP
>> $url = "https://raw.githubusercontent.com/ansible/ansible/devel/examples/scrip
>> $file = "$env:temp\ConfigureRemotingForAnsible.ps1"
>>
>> (New-Object -TypeName System.Net.WebClient).DownloadFile($url, $file)
>>
>> powershell.exe -ExecutionPolicy ByPass -File $file
PS C:\Users\vagrant>
```

```
PS C:\Users\vagrant> winrm get winrm/config/Service
Service
    RootSDDL = 0:NSG:BAD:P(A;;GA;;;BA)(A;;GR;;;IU)S:P(AU;FA;GA;;;WD)(AU;SA;GXGW;;
   MaxConcurrentOperations = 4294967295
   MaxConcurrentOperationsPerUser = 1500
    EnumerationTimeoutms = 240000
   MaxConnections = 300
    MaxPacketRetrievalTimeSeconds = 120
    AllowUnencrypted = true
    Auth
        Basic = true
        Kerberos = true
        Negotiate = true
        Certificate = false
        CredSSP = false
        CbtHardeningLevel = Relaxed
    DefaultPorts
       HTTP = 5985
       HTTPS = 5986
    IPv4Filter = *
    IPv6Filter = *
    EnableCompatibilityHttpListener = false
    EnableCompatibilityHttpsListener = false
    CertificateThumbprint
    AllowRemoteAccess = true
PS C:\Users\vagrant>
PS C:\Users\vagrant> winrm get winrm/config/Winrs
Winrs
   AllowRemoteShellAccess = true
    IdleTimeout = 7200000
   MaxConcurrentUsers = 2147483647
   MaxShellRunTime = 2147483647
   MaxProcessesPerShell = 2147483647
   MaxMemoryPerShellMB = 2147483647
   MaxShellsPerUser = 2147483647
PS C:\Users\vagrant> winrm enumerate winrm/config/Listener
Listener
    Address = *
```

```
Transport = HTTPS
    Port = 5986
    Hostname = WIN10
    Enabled = true
   URLPrefix = wsman
   CertificateThumbprint = F4D065F8FC6EE18F1F0FF9533584955D0C9B8E59
    ListeningOn = 10.0.2.15, 127.0.0.1, 169.254.20.54, ::1, fe80::44a1:482d:5918:
PS C:\Users\vagrant> winrm enumerate winrm/config/Listener
Listener
    Address = *
   Transport = HTTPS
   Port = 5986
   Hostname = WIN10
    Enabled = true
   URLPrefix = wsman
   CertificateThumbprint = F4D065F8FC6EE18F1F0FF9533584955D0C9B8E59
    ListeningOn = 10.0.2.15, 127.0.0.1, 192.168.0.83, ::1, fe80::94b1:dc79:39cf:8
PS C:\Users\vagrant>
```

Ansible Controller

code

inventory

```
[windows]
windows10 ansible_host=192.168.0.59
[windows:vars]
ansible_user=ansible
ansible_password=SuperSecurePassword123@
ansible_port=5986
ansible_connection=winrm
ansible_winrm_transport=basic
ansible_winrm_server_cert_validation=ignore
```

win_ping.yml

execution

code with | in GitHub

Recap

Now you know Configure a Windows Host for Ansible. Subscribe to the <u>YouTube</u> <u>channel</u>, <u>Medium</u>, <u>Website</u>, <u>Twitter</u>, and <u>Substack</u> to not miss the next episode of the Ansible Pilot.

Academy

Learn the Ansible automation technology with some real-life examples in my

@ 200+ Lessons Video Course

My book **Ansible By Examples**: 200+ Automation Examples For Linux and Windows System Administrator and DevOps