# Configuring WinRM on Port 5986 for Ansible

### Step 1: Enable WinRM on the Windows Server

1. Open PowerShell as Administrator and run:

winrm quickconfig -q

2. Configure WinRM to allow unencrypted traffic and basic authentication:

winrm set winrm/config/service '@{AllowUnencrypted="true"}' winrm set winrm/config/service/auth '@{Basic="true"}'

#### Step 2: Generate and Configure an SSL Certificate

1. Create a self-signed certificate:

\$cert = New-SelfSignedCertificate -DnsName \$(hostname) -CertStoreLocation Cert:\LocalMachine\My \$thumbprint = \$cert.Thumbprint

2. Configure a WinRM listener on port 5986 using the certificate:

winrm create winrm/config/Listener?Address=\*+Transport=HTTPS
"@{Hostname='\$(hostname)';CertificateThumbprint='\$thumbprint'}"

3. Verify that WinRM is listening on 5986:

winrm enumerate winrm/config/listener

## Step 3: Allow Port 5986 Through Windows Firewall

Run the following command to allow incoming WinRM connections on port 5986:

New-NetFirewallRule -Name "WinRM\_HTTPS" -DisplayName "WinRM HTTPS (5986)" -Protocol TCP -LocalPort 5986 -Action Allow

# Step 4: Test WinRM Connection Locally

Before proceeding with Ansible, test WinRM on the Windows server:

Test-WSMan -ComputerName localhost -UseSSL

Step 5: Install Required Python Modules on the Ansible Control Node

On your Ansible Control Node, install the pywinrm module:

pip install pywinrm

#### Step 6: Configure Ansible Inventory File

Edit your Ansible inventory (hosts.ini) and add the Windows server details:

[windows]

winserver ansible\_host=your\_server\_ip

[windows:vars]

ansible\_user=Administrator

ansible\_password=YourSecurePassword

ansible\_connection=winrm

ansible\_winrm\_transport=ntlm

ansible\_winrm\_server\_cert\_validation=ignore