

Configuring WinRM over HTTPS on Port 5986

To configure WinRM to use port 5986 for secure communication (HTTPS), follow these steps:

1. Configure WinRM to Use HTTPS on Port 5986

a. Run PowerShell as Administrator and execute:

```
winrm quickconfig
```

b. Set WinRM to listen on port 5986 (HTTPS) by running the following command:

```
winrm create winrm/config/Listener?Address=*+Transport=HTTPS
```

```
@{Hostname="YourServerName";Port="5986";CertificateThumbprint="YourCertificateThumbprint"}
```

Replace "YourServerName" with the name of your server and "YourCertificateThumbprint" with the thumbprint of the SSL certificate.

c. To find the thumbprint of the certificate, use:

```
Get-ChildItem -Path Cert:\LocalMachine\My
```

d. Verify the listener has been created successfully with:

```
winrm e winrm/config/listener
```

2. Configure the Firewall

Open the firewall for WinRM over HTTPS with:

```
New-NetFirewallRule -Name "WinRM 5986" -DisplayName "WinRM 5986" -Enabled True  
-Direction Inbound -Protocol TCP -LocalPort 5986 -Action Allow
```

3. Configure Ansible to Use WinRM over Port 5986

a. Modify your Ansible inventory file with the following configuration:

```
[windows]
```

```
winserver01 ansible_host=192.168.1.100
```

```
[windows:vars]
```

```
ansible_user=Administrator
```

```
ansible_password=YourSecurePassword
```

```
ansible_connection=winrm
```

```
ansible_winrm_transport=ntlm
```

```
ansible_port=5986
```

```
ansible_winrm_server_cert_validation=ignore
```

```
ansible_winrm_scheme=https
```

4. Test the Connection with Ansible

Run the following command to verify the connection:

```
ansible -i hosts winserver01 -m win_ping
```

5. Troubleshooting

- If you're encountering issues with certificates, ensure to set `ansible_winrm_server_cert_validation=ignore` in the inventory file for self-signed certificates.
- Ensure the firewall rule for port 5986 is active.
- Use `winrm e winrm/config/listener` to verify the WinRM listener is set up on port 5986.