

Windows Remote Management Command Line Tool

Configuration for WinRM is managed using the winrm command line or through GPO. Configuration includes global configuration for both the client and service.

The WinRM service requires at least one listener to indicate the IP address(es) on which to accept WS-Management requests. For example, if the machine has multiple network cards, WinRM can be configured to only accept requests from one of the network cards.

Global configuration

```
winrm get winrm/config
winrm get winrm/config/client
winrm get winrm/config/service
winrm enumerate winrm/config/resource
winrm enumerate winrm/config/listener
winrm enumerate winrm/config/plugin
winrm enumerate winrm/config/service/certmapping
```

Network listening requires one or more listeners. Listeners are identified by two selectors: Address and Transport.

Address must be one of:

```
*           - Listen on all IPs on the machine
IP:1.2.3.4  - Listen only on the specified IP address
MAC:...     - Listen only on IP address for the specified MAC
```

Note: All listening is subject to the IPv4Filter and IPv6Filter under config/service.

Note: IP may be an IPv4 or IPv6 address.

Transport must be one of:

```
HTTP  - Listen for requests on HTTP  (default port is 5985)
HTTPS - Listen for requests on HTTPS (default port is 5986)
```

Note: HTTP traffic by default only allows messages encrypted with the Negotiate or Kerberos SSP.

When configuring HTTPS, the following properties are used:

```
Hostname - Name of this machine; must match CN in certificate.
CertificateThumbprint - hexadecimal thumbprint of certificate appropriate for
  Server Authentication.
```

Note: If only Hostname is supplied, WinRM will try to find an appropriate certificate.

Example: To listen for requests on HTTP on all IPs on the machine:

```
winrm create winrm/config/listener?Address=*+Transport=HTTP
```

Example: To disable a given listener

```
winrm set winrm/config/listener?Address=IP:1.2.3.4+Transport=HTTP @{Enabled="false"}
```

Example: To enable basic authentication on the client but not the service:

```
winrm set winrm/config/client/auth @{Basic="true"}
```

Example: To enable Negotiate for all workgroup machines.

```
winrm set winrm/config/client @{TrustedHosts="<local>"}
```

See also:

```
winrm help uris
winrm help aliases
winrm help certmapping
winrm help input
winrm help switches
```