# Implementing Host Services and Applications

Cisco IOS XR software Host Services and Applications features on the router are used primarily for checking network connectivity and the route a packet follows to reach a destination, mapping a hostname to an IP address or an IP address to a hostname, and transferring files between routers and UNIX workstations.

**Prerequisites for implementing Host Services and Applications**

Ensure to install the relevant optional RPM package before using the host services or applications.

# HTTP Client Application

HTTP Client allows files to be transferred from http server to another device over a network using HTTP protocol. You can configure http client and various parameters associated with it by using the **http client** command.

### Configure HTTP Client

HTTP Client application is available by default. You can configure http client settings or view and modify the existing settings. To configure the settings, use the **http client** command in XR config mode.

```
Router #configure
Router(config)#http client ?
connection          Configure HTTP Client connection
response            How long HTTP Client waits for a response from the server
                    for a request message before giving up
secure-verify-host  Verify that if server certificate is for the server it is known as
secure-verify-peer  Verify authenticity of the peer's certificate
source-interface    Specify interface for source address
ssl                 SSL configuration to be used for HTTPS requests
tcp-window-scale    Set tcp window-scale factor for High Latency links
version             HTTP Version to be used in HTTP requests
vrf                 Name of vrf
```

*Table 1: Commands used to configure HTTP Client settings*

| Features | Description |
|---|---|
| **connection** | Configure HTTP Client connection by using either retry or timeout options. |

| Features | Description |
|---|---|
| **response** | How long HTTP Client waits for a response from the server for a request message before giving up. |
| **secure-verify-host** | Verify host in peer's certificate. To disable verifying this, you can use the command **http client secure-verify-host disable** |
| **secure-verify-peer** | Verify authenticity of the peer's certificate. |
| **source-interface** | Specifies the interface for source address for all outgoing HTTP connections. You can enter either an ipv4 or ipv6 address or both. |
| **ssl** version | SSL version (configuration) to be used for HTTPS requests. |
| **tcp-window-scale** scale | Set tcp window-scale factor for high latency links. |
| **version** version | HTTP version to be used in HTTP requests.<br><br>• 1.0 - HTTP1.0 will be used for all HTTP requests.<br><br>• 1.1 - HTTP1.1 will be used for all HTTP requests.<br><br>• default libcurl - will use HTTP version automatically. |
| **vrf** name | Name of vrf. |

**Examples**

**Example 1:** This example shows how to set the tcp window-scale to 8.

```
Router(config)#http client tcp-window-scale 8
```

**Example 2:** This example shows how to set the HTTP version to 1.0.

```
Router(config)#http client version 1.0
```

**Note**    HTTP Client uses libcurl version 7.30