

# 4.1 – HTTP API

You can use HTTP request to create a server, symlink dynamically if you don't want to write a plugin for the gateway.

To use the HTTP server, you'll need to configure a password in gateway.conf:

```
Password = yourPassword
```

Then you can use MD5 hash of this password with the HTTP API.

## Create servers on gateway:

`http://gatewayAddress/SERVER?id=serverId&displayName=Name&server=hostName&gatewayPwd=passwordInGateway.conf&...`

gatewayPwd is hexadecimal MD5 hash of the password which is configured in gateway.conf.

To delete a server add "&action=delete" to the URL; to update a server, add "&action=update" to the URL.

## List servers:

`http://w-think/SERVER?action=list&gatewayPwd=21232f297a57a5a743894a0e4a801fc3&id=ATPlus`

It returns the asked server if id is specified:

```
{
  "id": "ATPlus", "displayName": "ATPlus", "server": "cloud.thinrdp.net", "shadowing": false, "protocol": "rdp", "icon": "kbd.png", "rdp": { "username": "demo", "password": "demo" }
}
```

It returns all servers if id is not specified:

```
{
  "display" : true,
  "type" : "NORMALLIST",
  "cols" : [
    { "name" : "id" },
    { "name" : "displayName" },
    { "name" : "server" },
    { "name" : "remoteProgram" },
  ]
}
```

```

    {"name" : "command"}
  ],
  "rows" : [
    ["ATPlus", "ATPlus", "192.168.12.117", "", ""],
    ["WordPad", "WordPad", "192.168.0.118", "", "wordpad.exe"]
  ]
}

```

## Create symlink on gateway:

`http://gatewayAddress/SYMLINK?symlink=symlinkId&server=existingServerId&validTime=20m&gatewayPwd=passwordInGateway.conf&...`

You can also use "validFrom", "validTo" parameters. Please check

<http://www.remotespark.com/view/doc/com/toremote/gateway/connection/SymLink.html> for more information.

To delete a symlink, add "&action=delete" to the URL; to update a symlink, add "&action=update" to the URL.

## List symlinks:

`http://w-think/SYMLINK?action=list&gatewayPwd=21232f297a57a5a743894a0e4a801fc3&symlink=212a155ee951-40db-95ea-177183174fa7`

It returns the asked symlink if symlink is specified:

```

{"id": "212a155e-e951-40db-95ea-177183174fa7", "resourceId": "169.254.146.243", "validFrom": "Aug 26, 2015 12:00:00 AM", "parameters": ""}

```

It returns all the symlinks if symlink is not specified:

```

{
  "cols": [
    {"name": "id"},
    {"name": "resourceId"},
    {"name": "password"},
    {"name": "validFrom"},
    {"name": "validTime"},
    {"name": "validTo"},
    {"name": "parameters"},
    {"name": "comment"}
  ]
}

```

```

],
"rows": [
  ["212a155e-e951-40db-95ea-177183174fa7", "169.254.146.243", "", 1440568800000, "", 0, "",
""],
  ["c5c6bc9d-f8a7-42ca-af9c-bd28c86adab4", "169.254.146.243", "", 1452544860000, "", 0, "",
""],
]
}

```

## List sessions:

[http://w-](http://w-think/SESSION?action=list&gatewayPwd=21232f297a57a5a743894a0e4a801fc3&id=a29575a9-08c2-4162-9bfb-4876820953db)

[think/SESSION?action=list&gatewayPwd=21232f297a57a5a743894a0e4a801fc3&id=a29575a9-08c2-4162-9bfb-4876820953db](http://w-think/SESSION?action=list&gatewayPwd=21232f297a57a5a743894a0e4a801fc3&id=a29575a9-08c2-4162-9bfb-4876820953db)

It returns the single session information if session id is specified:

```

{"id":"a29575a9-08c2-4162-9bfb4876820953db","server":"192.168.12.118","clientIp":"169.254.84.132","clientAgent":"Mozilla
\5.0 (Windows NT 10.0; WOW64) AppleWebKit\537.36 (KHTML, like Gecko) Chrome\47.0.2526.111
Safari\537.36","thumbnail":"","startTime":"Tue Jan 26 15:38:55 MST
2016","numericId":621779525,"user":"","domain":"","rdpId":1,"startTime2":1453847935826}

```

It returns all sessions if session id is not specified:

```

{
  "cols": [
    {"name": "id"},
    {"name": "server"},
    {"name": "clientIp"},
    {"name": "clientAgent"},
    {"name": "startTime"},
    {"name": "numericId"},
    {"name": "user"},
    {"name": "domain"},
    {"name": "join"},
    {"name": "protocol"},
    {"name": "symlink"},
    {"name": "thumbnail"}
  ],
  "size": 1,

```

```
"rows": [
  ["a29575a9-08c2-4162-9bfb-4876820953db", "192.168.12.118", "169.254.84.132", "Mozilla/5.0
(Windows NT 10.0; WOW64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/47.0.2526.111
Safari/537.36", "Tue Jan 26 15:38:55 MST 2016", 621779525, "", "", "", "RDP", "", ""]
]
```

It returns multiple session information if ids parameter is used:

<http://w-think/SESSION?action=list&gatewayPwd=21232f297a57a5a743894a0e4a801fc3&id=a29575a9-08c2-4162-9bfb-4876820953db&ids=sessinId1,sessionId2>

```
[{session1}, {session2}]
```

## Upload license file:

<http://wthink/CONTROL?licenseFile=base64encodedLicenseFile&gatewayPwd=21232f297a57a5a743894a0e4a801fc3>

Please make sure you encode the value of licenseFile. For example:

```
encodeURIComponent(base64encodedLicenseFile)
```

The new license file information will be returned in JSON format if the license file was uploaded successfully.

To query the current license file information, you can use:

<http://w-think/CONTROL?licenseFile=.&gatewayPwd=21232f297a57a5a743894a0e4a801fc3>

## Get gateway information

<http://w-think/CONTROL?target=gateway>

```
{"version": "5.8.0", "buildNumber": "941", "buildTime": "2020_03_04_10", "startTime": 1583342850085}
```

Password is not needed for this gateway information request.

## Reset Two Factor Authentication

<http://w-think/CONTROL?target=twofa&user=Username&gatewayPwd=21232f297a57a5a743894a0e4a801fc3>

```
curl -k -G --data-urlencode "target=twofa" --data-urlencode "user=svtest\user1"  
https://127.0.0.1/CONTROL
```

## Error handling:

HTTP request will return HTTP Status code 500 and {"error:": "error information"} in JSON if there is an error. For example, server or symlink with specified id was not found when you try to get a server or symlink.

HTTP request will return status code 200 if operation succeeded.

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