

# Microsoft Remote Desktop Certificates

## Manually replacing RDP certificate

Install the new certificate in the Local Computer Personal store:

If no password is needed:

```
Import-PfxCertificate -CertStoreLocation Cert:\LocalMachine\My -FilePath cert.pfx
```

Or if a password is needed:

```
$mypwd = Get-Credential -UserName 'Enter password below' -Message 'Enter password below'  
Import-PfxCertificate -CertStoreLocation Cert:\LocalMachine\My -Password $mypwd.Password -FilePath cert.pfx
```

After installing the new certificate in the Local Computer Personal store, run the following commands:

```
Set-Location Cert:\LocalMachine\my  
Get-ChildItem
```

Pick the Thumbprint of the certificate you wish to use then run the following command using the proper thumbprint:

```
#Replace Certificate for RDS  
wmic /namespace:\\root\cimv2\TerminalServices PATH Win32_TSGeneralSetting Set  
SSLCertificateSHA1Hash="[new_cert_thumbprint]"
```

This effectively updates the registry key:

```
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\Terminal Server\WinStations\RDP-  
Tcp\SSLCertificateSHA1Hash
```

Use the following command to verify that the proper certificate is being used:

```
Get-WmiObject "Win32_TSGeneralSetting" -Namespace root\cimv2\terminalservices -Filter  
"TerminalName='RDP-tcp'"
```

[Source](#)

## Windows Server 2022 method

Couldn't the WMI method to work on Windows Server 2022. This did.

```
$serverName = "MYTS01"  
$certHash = "xxxxx"  
$path = (Get-WmiObject "Win32_TSGeneralSetting" -ComputerName $serverName -Namespace  
root\cimv2\terminalservices -Filter "TerminalName='RDP-tcp'")  
Set-WmiInstance -Path $path -Arguments @{SSLCertificateSHA1Hash=$certHash}
```

## Signing RDP files

Use the rdpSIGN app to

```
rdpsign /sha256 xxxxxxxx "Remote Desktop File.rdp"
```

# Windows Server 2022 Remote Desktop Services Deployment Management

Work in progress

```
$computerName = 'Somecomputer'  
$remotePath = '\\10.10.10.10'  
$certFilePath = '\\10.10.10.10\tmp\certs\mycert.pfx'
```

```
Enter-PSSession $computerName
```

```
# for non-domain RemotePath prefix the username with localhost: localhost\admin
```

```
$nasCredential = Get-Credential
```

```
New-SmbMapping -RemotePath $remotePath -UserName $nasCredential.UserName -Password
```

```
$nasCredential.GetNetworkCredential().Password
```

```
# import the cert
```

```
Import-PfxCertificate -FilePath $certFilePath -CertStoreLocation Cert:\LocalMachine\My
```

```
cd Cert:\LocalMachine\My
```

```
dir
```

```
$certThumbprint = ''
```

```
# Check the Remote Desktop Services Deployment
```

```
Get-RDCCertificate
```

```
# Update the RDS roles to use the provided certificate
```

```
Set-RDCCertificate -Role RDRedirector -Thumbprint $certThumbprint
```

```
Set-RDCCertificate -Role RDPublishing -Thumbprint $certThumbprint
```

```
Set-RDCCertificate -Role RDWebAccess -Thumbprint $certThumbprint
```

```
Set-RDCCertificate -Role RDGateway -Thumbprint $certThumbprint
```

```
# Check the Remote Desktop Services Deployment
```

```
Get-RDCCertificate
```

```
#end
```

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