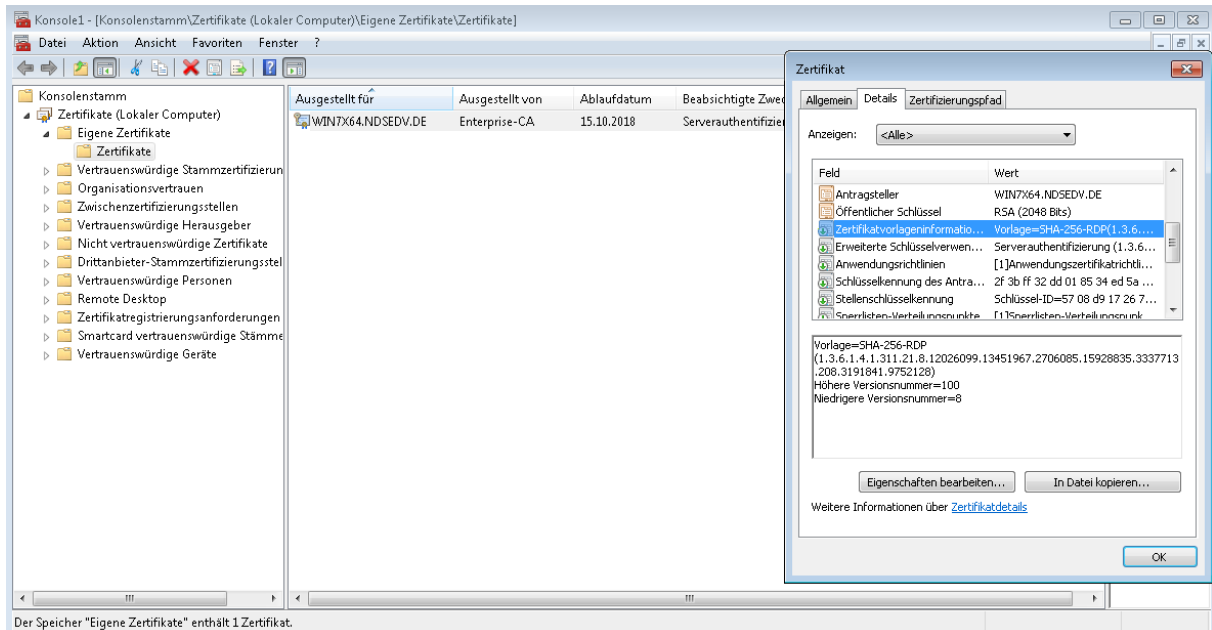
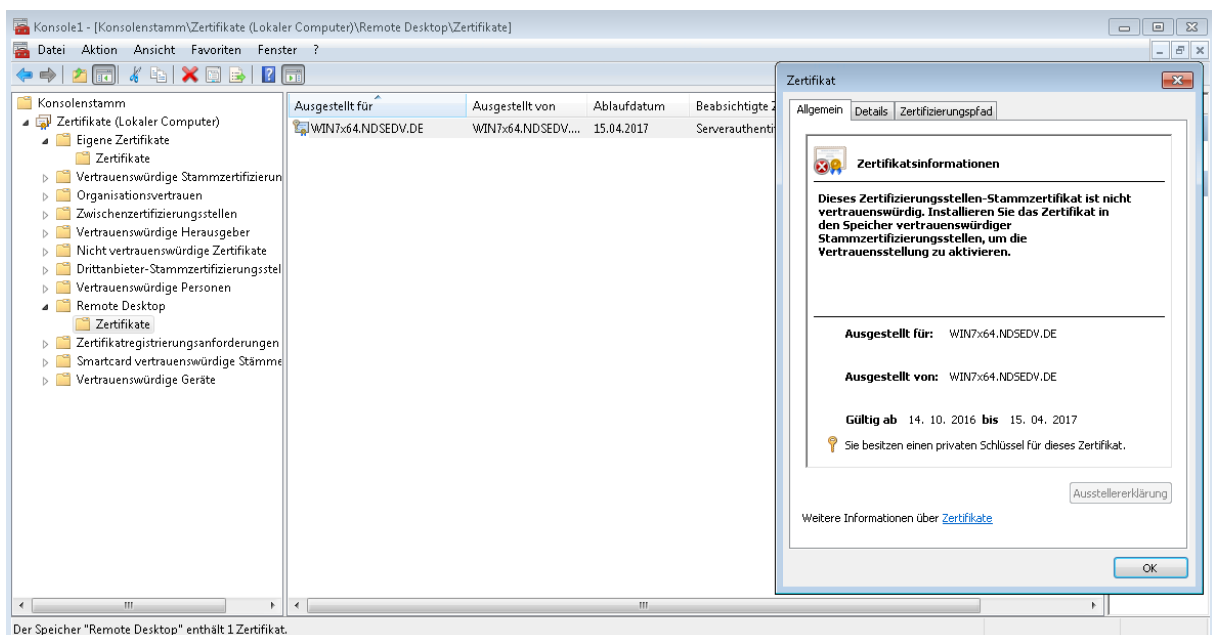
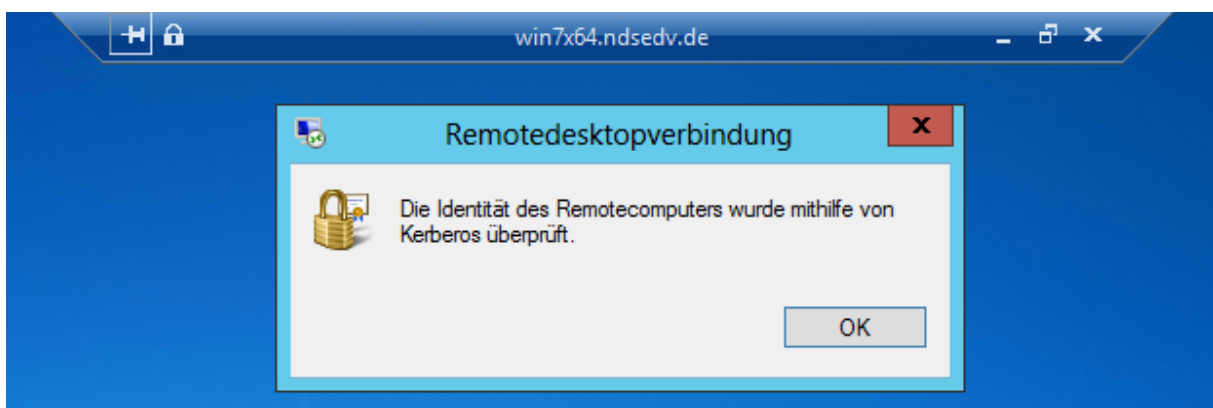


## RDP-tcp – Zertifikat manuell per Powershell zuweisen

Die Ausgangslage ist, dass der Client bereits über ein Computerzertifikat verfügt sowie TLS1.2 aktiv ist.

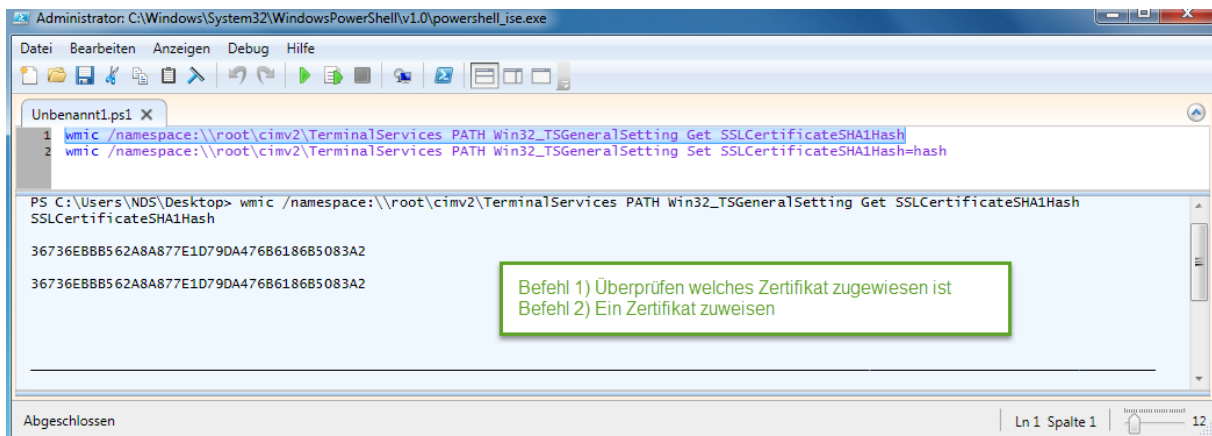


Genutzt wird aber immer noch das selbstsignierte Maschinen Zertifikat.

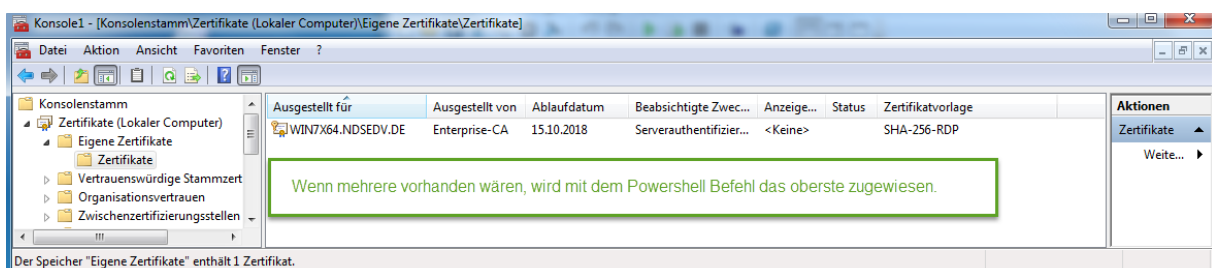
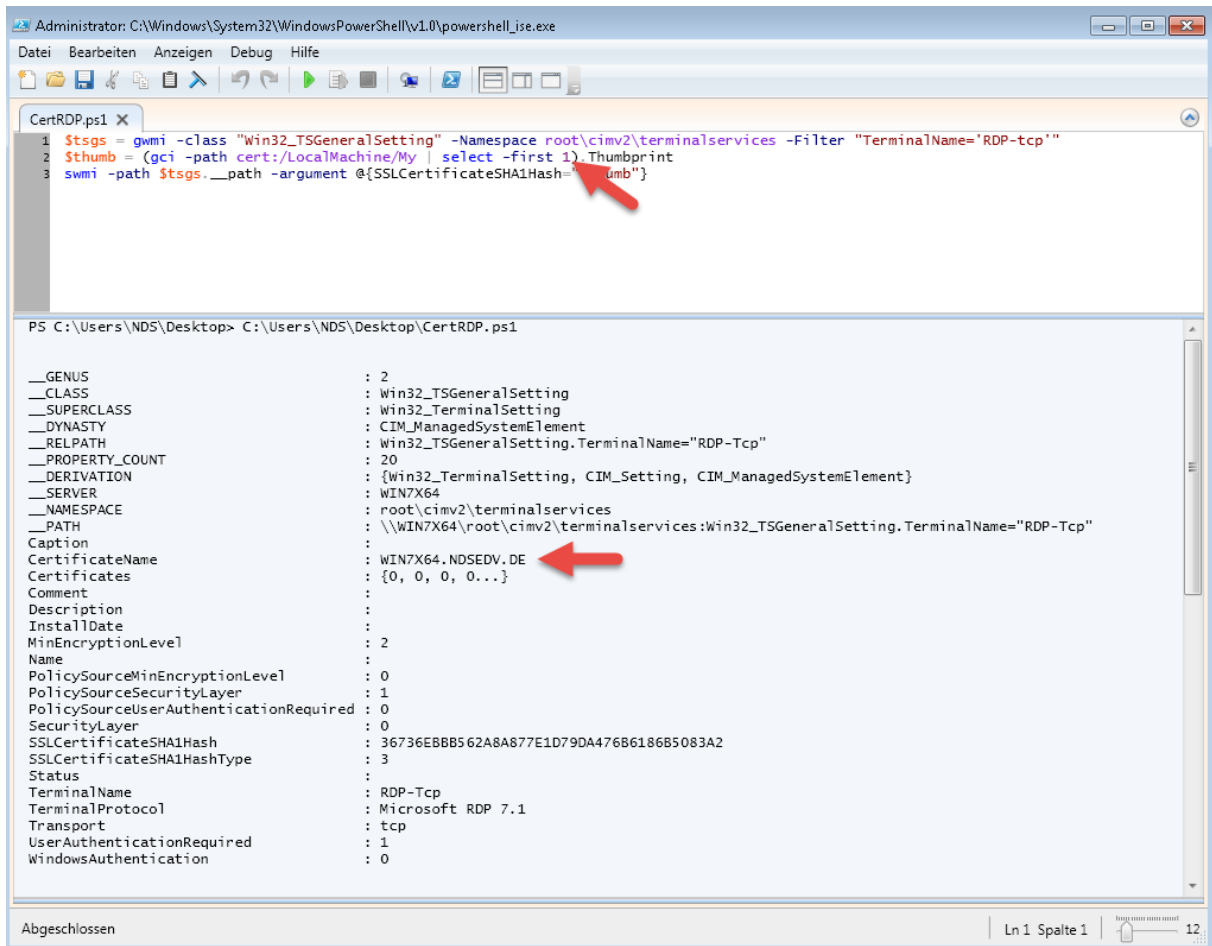


## RDP-tcp – Zertifikat manuell per Powershell zuweisen

Mit diesem Befehl kann man das aktuelle Zertifikat auslesen:

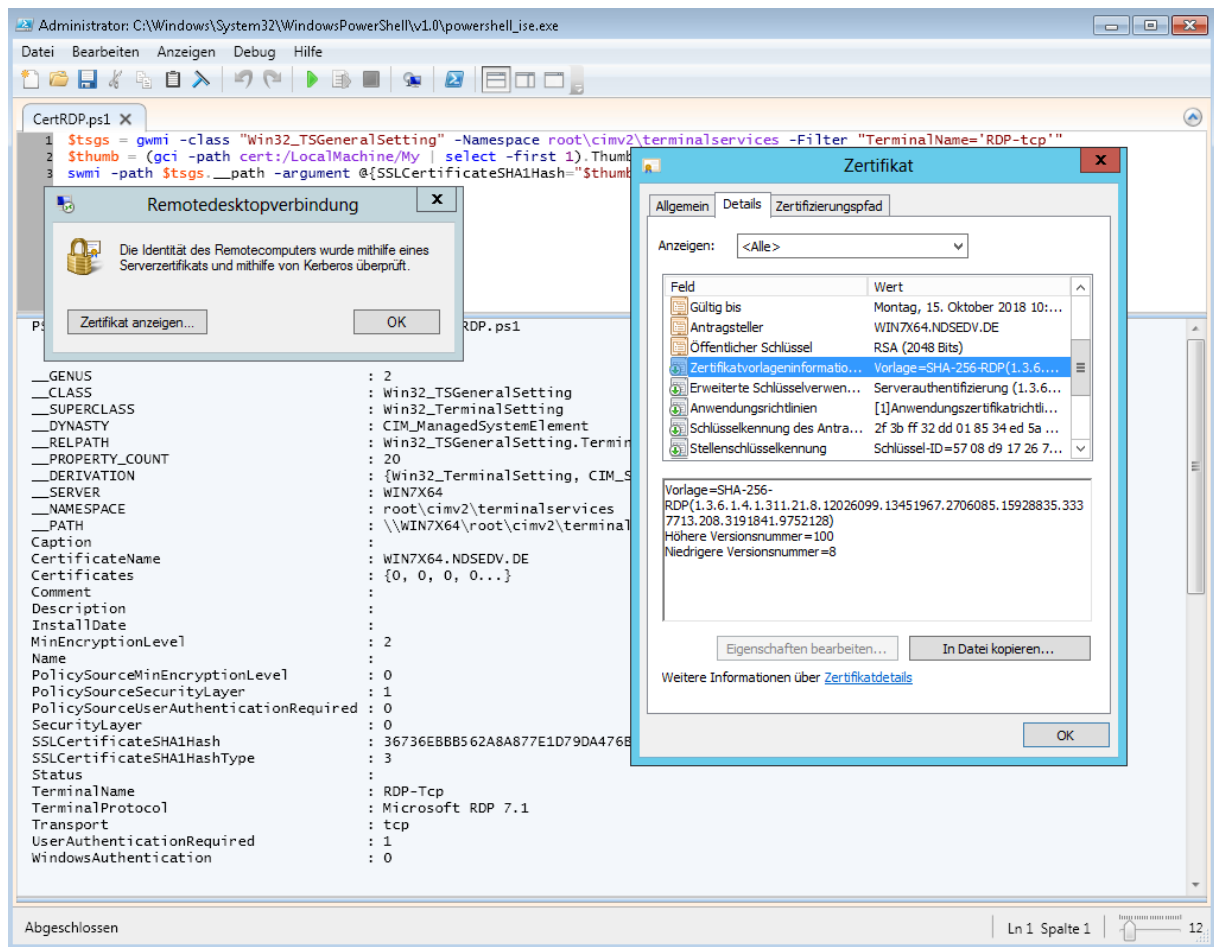


Mithilfe der Powershell weisen wir dem RDP-TCP Protokoll das erste aufgeführte Computerzertifikat zu.



## RDP-tcp – Zertifikat manuell per Powershell zuweisen

Erneuter Versuch einer RDP Verbindung.



### Powershell Skript:

```
$tsgs = gwmi -class "Win32_TSGeneralSetting" -Namespace root\cimv2\terminalservices -Filter "TerminalName='RDP-tcp'"
$thumb = (gci -path cert:/LocalMachine/My | select -first 1).Thumbprint
swmi -path $tsgs.__path -argument @{SSLCertificateSHA1Hash="$thumb"}
```

oder das letzte in der Auflistung:

```
$tsgs = gwmi -class "Win32_TSGeneralSetting" -Namespace root\cimv2\terminalservices -Filter "TerminalName='RDP-tcp'"
$thumb = (gci -path cert:/LocalMachine/My | select -last 1).Thumbprint
swmi -path $tsgs.__path -argument @{SSLCertificateSHA1Hash="$thumb"}
```

oder per Thumbprint zuweisen:

```
$path = (Get-WmiObject -class "Win32_TSGeneralSetting" -Namespace root\cimv2\terminalservices -Filter "TerminalName='RDP-tcp')).__path
Set-WmiInstance -Path $path -argument @{SSLCertificateSHA1Hash="B7A2E65FBC40CDFADC57D283AC4A0508CC58E566"}
```

oder per CMD importieren und zuweisen:

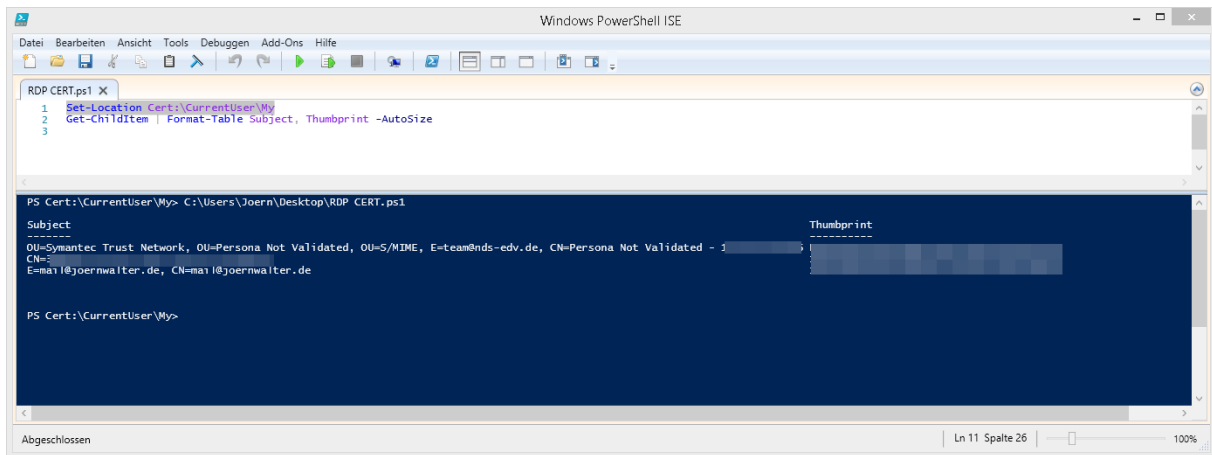
```
certutil -importpfx rdp.pfx
wmic /namespace:\\root\cimv2\TerminalServices PATH Win32_TSGeneralSetting Set SSLCertificateSHA1Hash=B7A2E65FBC40CDFADC57D283AC4A0508CC58E566
```

## RDP-tcp – Zertifikat manuell per Powershell zuweisen

Die vorhandenen Zertifikate auslesen:

```
Set-Location Cert:\CurrentUser\My
```

```
Get-Childitem | Format-Table Subject, Thumbprint -AutoSize
```



The screenshot shows the Windows PowerShell ISE interface. The script editor at the top contains the following commands:

```
1 Set-Location Cert:\CurrentUser\My
2 Get-Childitem | Format-Table Subject, Thumbprint -AutoSize
3
```

The console output shows the execution of these commands. The prompt is `PS Cert:\CurrentUser\My>`. The first command changes the location to `C:\Users\Joern\Desktop\RDP CERT.ps1`. The second command outputs a table of certificates:

Subject	Thumbprint
OU=Symantec Trust Network, OU=Persona Not Validated, OU=S/MIME, E=team@nds-edv.de, CN=Persona Not Validated - 3	[redacted]
CN=	[redacted]
E=mai1@joernwalter.de, CN=mai1@joernwalter.de	[redacted]

The status bar at the bottom indicates "Abgeschlossen" (Completed) and "Ln 11 Spalte 26" (Line 11, Column 26) at 100% zoom.