

RDP Certificate

On target server

```
;----- request.inf -----  
  
[Version]  
Signature="$Windows NT$"  
  
[NewRequest]  
Subject = "C=US, CN=something.example.com"  
  
KeySpec = 1  
KeyLength = 2048  
Exportable = TRUE  
MachineKeySet = TRUE  
SMIME = False  
PrivateKeyArchive = FALSE  
UserProtected = FALSE  
UseExistingKeySet = FALSE  
ProviderName = "Microsoft RSA SChannel Cryptographic Provider"  
ProviderType = 12  
RequestType = PKCS10  
KeyUsage = 0xa0  
HashAlgorithm = SHA256  
  
[EnhancedKeyUsageExtension]  
OID=1.3.6.1.5.5.7.3.1 ; this is for Server Authentication / Token Signing  
;-----
```

In the **Subject** line, replace **US** by your country and **something.example.com** by your domain and subdomain name.

Save it somewhere on target server as **request.inf** then run:

```
certreq -new request.inf request.csr
```

This command may not exist on non-server versions of Windows.

Go to [Gandi.net](#)

- Log in
- Open *SSL Certificates* section
- Select a *Standard* certificate
- Choose to host it *elsewhere* (**not** on a *Gandi Simple Hosting Instance*)
- Confirm you want a *Standard* certificate and only for a single address.

- Copy the **content** of the `request.csr` file from your server into the form. Check that your domain name appears in the *Common name* box.
- Pay
- Confirm you own the domain (could take a few minutes)
 - Either by clicking a link in an email received on `admin@yourdomain`
 - Or with a DNS record to add (**take more time**)
- Download your certificate

Back on server

Save the certificate next to the two other files, then run:

```
certreq -accept yourdomain.crt
```

Open *Computer Certificates* and look for your domain in *Personal*. Right click it and choose *Manage private keys*, then give **read** permission to *NETWORK SERVICE*.

Open your certificate and in the *Details* tab look at its thumbprint.

In the registry, go to:

```
HKLM\System\CurrentControlSet\Control\Terminal Server\Winstations\RDP-Tcp
```

Create a new binary value named `SSLCertificateSHA1Hash` and set the thumbprint as value.

Restart the *Remote Desktop* service or reboot the server.

If it doesn't work

None of these steps should be required.

Exportable key

- Open *Computer Certificates* and look for your domain in *Personal*
- Right click it and choose *Export*
- Choose to export the private key
- Select the *PFX* format and check *Export all extended properties*
- Delete your certificate then import it again:
 - Select the *Personal* store
 - Mark the key as exportable
- Give **read** permission to *NETWORK SERVICE* as explained above

Folder permissions

Before doing this, check you properly gave **read** permission to *NETWORK SERVICE* as explained above. It's probably a **bad idea** to do this step.

Check permissions of this folder:

```
C:\ProgramData\Microsoft\Crypto\RSA\MachineKeys
```

Administrators should have *Full control*.

Install on another server

If another server is reachable at the same domain but another port, it will be able to use the same certificate.

Just export the *PFX* file as explained above but import it (you shouldn't have to mark it as *exportable*) on the other server.

Then set the registry key and you should be done.