

# 자체 서명 인증서

#win10

#New-SelfSignedCertificate

## 자습서

Quote >

<https://techexpert.tips/ko/windows-ko/windows-%EC%9E%90%EC%B2%B4-%EC%84%9C%EB%AA%85%EB%90%9C-%EC%9D%B8%EC%A6%9D%EC%84%9C-%EB%A7%8C%EB%93%A4%EA%B8%B0/>

1. PowerShell - 관리자 권한 실행
2. 자체 서명된 인증서 생성

```
PSParentPath: Microsoft.PowerShell.Security\Certificate::LocalMachine\My
Thumbprint                                     Subject
-----
49DCCFCBF91077003D935819C7369ABFC63C2033    CN=www.newbigwater.com
```

```
New-SelfSignedCertificate -DnsName www.newbigwater.com -CertStoreLocation cert:\LocalMachine\My
-FriendlyName "NBE" -NotAfter (Get-Date).AddYears(10) -KeyLength 4096
```

3. 인증서 나열

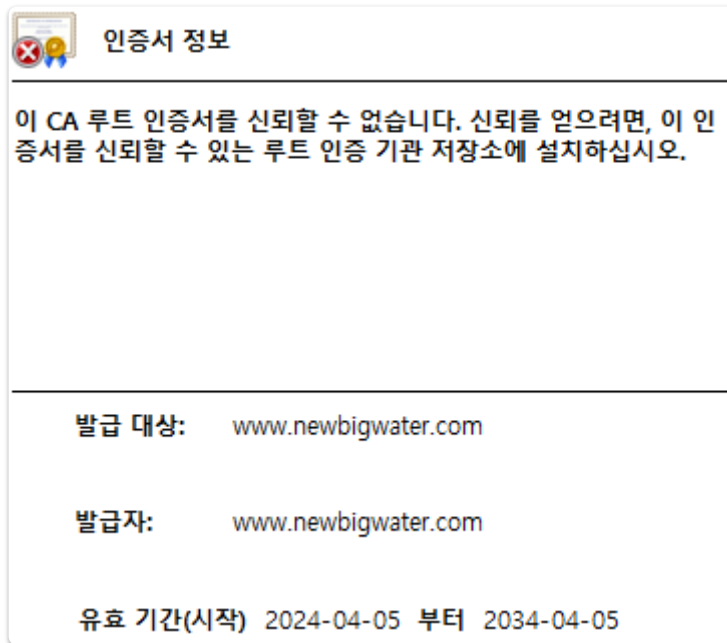
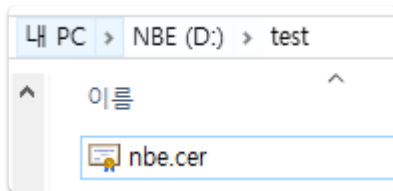
```
PSParentPath: Microsoft.PowerShell.Security\Certificate::LocalMachine\My
Thumbprint                                     Subject
-----
49DCCFCBF91077003D935819C7369ABFC63C2033    CN=www.newbigwater.com
```

```
Get-ChildItem Cert:\LocalMachine\My
```

4. 인증서 배포

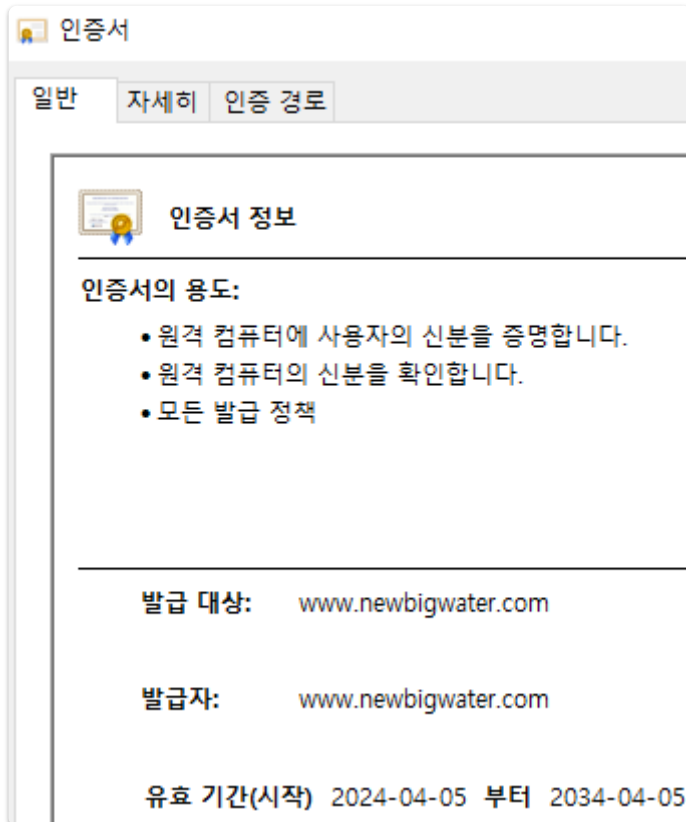
```
디렉터리: D:\wtest

Mode                LastWriteTime         Length Name
----                -
-a-----         2024-04-05   오후 3:22           1338 nbe.cer
```



```
Export-Certificate -Cert Cert:\LocalMachine\My\49DCCFCBF91077003D935819C7369ABFC63C2033 -
FilePath D:\test\nbe.cer
```

##### 5. 인증서를 신뢰할 수 있는 루트 인증 기관으로 가져옴




```
Import-Certificate -CertStoreLocation Cert:\LocalMachine\AuthRoot -FilePath D:\test\nbe.cer
```

6. 여러 대체 이름을 가진 자체 서명된 인증서를 생성합니다.

```
New-SelfSignedCertificate -DnsName  
www.newbigwater.com,altname1.nbe.com,alternativenam2.nbw.com -CertStoreLocation  
cert:\LocalMachine\My -FriendlyName "nbe" -NotAfter (Get-Date).AddYears(10) -KeyLength 4096
```

8. 인증서의 공개 키와 개인 키를 보호된 파일로 내보냅니다.

Mode	LastWriteTime	Length	Name
-a----	2024-04-05 오후 3:37	4349	nbe.pfx

내 PC > NBE (D:) > test		
이름	수정한 날짜	유형
 nbe.pfx	2024-04-05 오후 3:38	개인 정보 교환

```
$MyPassword = ConvertTo-SecureString -String "A1B2C3" -force -asplaintext  
Export-PfxCertificate -Cert Cert:\LocalMachine\My\49DCCFCBF91077003D935819C7369ABFC63C2033 -  
FilePath D:\test\nbe.pfx -Password $MyPassword
```

11. 인증서 삭제

```
Remove-Item -Path cert:\LocalMachine\My\49DCCFCBF91077003D935819C7369ABFC63C2033
```