

## Free SSL Certificate with Posh-ACME

Install-Module -Name Posh-ACME -RequiredVersion 4.12.0

```
Administrator: Windows PowerShell

PS C:\Users\Administrator> Install-Module -Name Posh-ACME -RequiredVersion 4.12.0

Untrusted repository
You are installing the modules from an untrusted repository. If you trust this repository, change its InstallationPolicy value by running the Set-PSRepository cmdlet. Are you sure you want to install the modules from 'PSGallery'?
[Y] Yes [A] Yes to All [N] No [L] No to All [S] Suspend [?] Help (default is "N"): Y
PS C:\Users\Administrator>
```

New-PACertificate \*.mrbjarke.com -AcceptTOS -PfxPass ops

```
Administrator: Windows PowerShell

PS C:\Users\Administrator> New-PACertificate *.mrbjarke.com -AcceptTOS -PfxPass ops
Please review the Terms of Service here: https://letsencrypt.org/documents/LE-SA-v1.2-November-15-2017.pdf
WARNING: No email contacts specified for this account. Certificate expiration warnings will not be sent unless you add at least one with Set-PAAccount.

Please create the following TXT records:
-----
_acme-challenge.mrbjarke.com -> bzEua61yNYpowrPaXnrzXnOmtLtrmJbeFgMx5c_KGWk
-----

Press any key to continue.:

```

>> It will give you a Pop-saying insert the TXT record on

your DNS server of the respective acme\_challenge TXT. After you update it in the Route53, Press any key in the PS.

The screenshot shows the AWS Route 53 console. On the left, a table lists DNS records for the domain mrbjarke.com. The record with the name `_acme-challenge.mrbjarke.com` and type `TXT` is selected. On the right, the 'Edit record' panel is open, showing the record name as `_acme-challenge.mrbjarke.com` and the record type as `TXT`. The value field contains the string `"bzEua61yNYpowrPaXnrzXnOmtLtrmJbeFgMx5c_KGWk"`. The TTL is set to 60 seconds.

Record name	Type	Routing policy	Di...	Value/Route traffic
mrbjarke.com	A	Simple	-	dualstack.marcombox-RC-LB-54.186.160.179
mrbjarke.com	NS	Simple	-	ns-365.awsdns-45.com, ns-1737.awsdns-25.com, ns-825.awsdns-39.net, ns-1134.awsdns-13.net
mrbjarke.com	SOA	Simple	-	ns-365.awsdns-45.com
*.mrbjarke.com	CNAME	Simple	-	Marcombox-RC-LB-54.186.160.179
<b>_acme-challenge.mrbjarke.com</b>	<b>TXT</b>	<b>Simple</b>	<b>-</b>	<b>"bzEua61yNYpowrPaXnrzXnOmtLtrmJbeFgMx5c_KGWk"</b>
admin.mrbjarke.com	CNAME	Simple	-	Marcombox-RC-LB-54.186.160.179
mainline2.mrbjarke.com	CNAME	Simple	-	Marcombox-RC-LB-54.186.160.179
nantweb1.mrbjarke.com	A	Simple	-	54.186.160.179
www.mrbjarke.com	A	Simple	-	212.53.95.124

And you will get the certificate under AppData\Local\Posh-ACME\LE\_PROD\

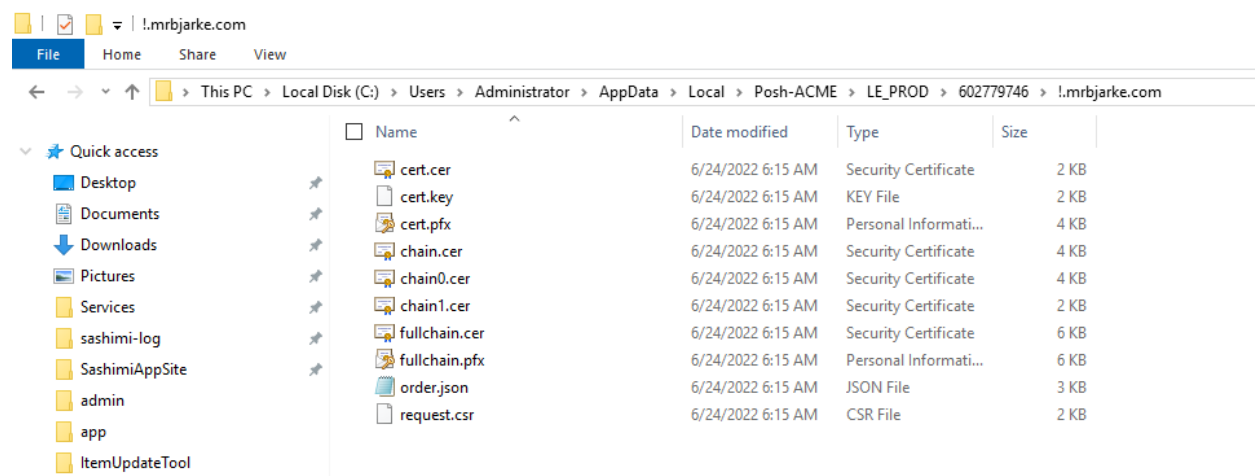
```
PS C:\Users\Administrator> New-PACertificate *.mrbjarke.com -AcceptTOS -PfxPass ops
Please review the Terms of Service here: https://letsencrypt.org/documents/LE-SA-v1.2-November-15-2017.pdf
WARNING: No email contacts specified for this account. Certificate expiration warnings will not be sent unless you add at least one
with Set-PAAccount.

Please create the following TXT records:
-----
_acme-challenge.mrbjarke.com -> bzEua61yNYpowrPaXnrzXnOmtLtrmJbeFgMx5c_KGwk
-----

Press any key to continue.:

Please remove the following TXT records:
-----
_acme-challenge.mrbjarke.com -> bzEua61yNYpowrPaXnrzXnOmtLtrmJbeFgMx5c_KGwk
-----

Subject          NotAfter          KeyLength Thumbprint          AllSANs
-----
CN=*.mrbjarke.com 9/22/2022 5:15:54 AM 2048      A308D742481033B7D57B6011A77B423E1B63EA8D {*.mrbjarke.com}
```



Set-PAOrder \*.sashiimi.com

Get-PACertificate | Set-IISCertificate -SiteName 'Default Web Site' -Verbose

To update the certificates:

Submit-Renewal \*.mrbjarke.com -Force -NoSkipManualDns

```
#####
##### Script #####
#####

Submit-Renewal *.mrbjarke.com -Force -NoSkipManualDns

$hostname = "invite.mrbjarke.com admin.mrbjarke.com signin.mrbjarke.com"

ForEach ($content in $hostname) {
    if( $content.contains("invite.mrbjarke.com")){

        $pfxCertPath = "C:\Users\Administrator\AppData\Local\Posh-
        ACME\LE_PROD\545245446\!.mrbjarke.com\cert.pfx"

        $pfxCertPwdPath = "C:\Users\Administrator\AppData\Local\Posh-
        ACME\LE_PROD\545245446\!.mrbjarke.com\pfx-password.txt"

        $pfxCertPwdPath = "C:\Users\Administrator\AppData\Local\Posh-
        ACME\LE_PROD\545245446\!.mrbjarke.com\pfx-password.txt"

        [Byte[]] $key = (1..16)

        $Password = "ops" | ConvertTo-SecureString -AsPlainText -Force

        $Password | ConvertFrom-SecureString -key $key | Out-File $pfxCertPwdPath

        # remove sslcert binding

        Get-ChildItem "cert:\LocalMachine\My" | where-object { $_.Subject -like "*.mrbjarke.com" } | Remove-Item

        # try remove before ssl certs

        netsh http delete sslcert hostnameport="*.mrbjarke.com:443"

        # import new ssl

        $certHash = (Get-ChildItem -Path Cert:LocalMachine\MY).Thumbprint

        echo "Imported Certs"

        $importedCert = Import-PfxCertificate -FilePath $pfxCertPath -CertStoreLocation "Cert:\LocalMachine\My" -
        Password $Password

        echo "Remove sslcert"

        # add new sslcert binding

        $guid = [guid]::NewGuid().ToString("B")

        netsh http add sslcert hostnameport="invite.mrbjarke.com:443" certhash= $certHash certstorename=MY
        appid="$guid" -SslFlags 1

    }
}
```