

Procedure about certificat Let's encrypt

Let's Encrypt certificates

Instead of uploading CA certificate from your local directory, an easier way is to configure FortiWeb to obtain a certificate from Let's encrypt on behalf of your application.

Let's Encrypt is a non-profit certificate authority run by Internet Security Research Group (ISRG) that provides X.509 certificates for Transport Layer Security (TLS) encryption at no charge.

Before adding a Let's Encrypt certificate, you must:

- You must have changed the DNS entry to map your domain name with FortiWeb's IP address.
- You should not block requests from United States in **IP Protection > Geo IP Block** , otherwise FortiWeb can't retrieve certificates from Let's Encrypt.

To use certificate issued by Let's Encrypt:

To access this part of the web UI, your administrator's account access profile must have **Read** and **Write** permission to items in the **Admin Users** category. For details, see [Permissions](#) .

1. Go to **Server Objects > Certificates > Letsencrypt** .
2. Click **Create New** .
3. Enter a name for this certificate.
4. Enter the domain name of your application. FortiWeb will then retrieve the certificate for this domain from Let's encrypt.
 - Wildcard is supported when the type is **DNS-01** . The wildcard only matches with the string within the same domain level, for example, "a.example.com" matches with "*.example.com", while "a.a.example.com" doesn't.

Edit Let's Encrypt

Name	wildcard_letsacme
Domain	*wc.letsacme.net
Type ⓘ	DNS-01 ▾
Key Type	RSA-2048 ▾
DNS Content File ⓘ	 Download

OK Cancel

ID	Subject Alternative Name
1	wc.letsacme.net

- It's allowed to add more domain names by creating Subject Alternative Names (SAN). Up to 99 SAN items are supported. Make sure the domain names in the two places do not overlap, for example, "*.wc_letsacme.net" can't be added together with "a.wc_letsacme.net".
 - **HTTP-01** : Let's Encrypt will send HTTP request to FortiWeb for validation. When in RP mode, you must select HTTP service and uses port 80 for it in the server policy which uses the Let's Encrypt certificate. When in TTP mode, the back-end server which uses Letsencrypt certificate should have port 80 enabled. **Redirect HTTP to HTTPS** should not be enabled when the validation is in process.
 - **TLS-ALPN** : This method allows Let's Encrypt to send HTTPS requests to FortiWeb for validation. You must select HTTPS service in the server policy which uses the Let's Encrypt certificate.
 - **DNS-01** : This method allows Let's Encrypt to do validation through your DNS provider. FortiWeb will generate a TXT record, then you need to add this TXT record to the DNS record. Refer to [Fulfilling the DNS-01 challenge](#) .
1. Set the **Renew Period** . The certificate expires every 90 days. The **Renew Period** specified how many days in advance that FortiWeb will renew the certificate from Let's Encrypt before it expires. For example, if **Renew Period** is 10 days, then



FortiWeb will renew the certificate 10 days before it expires. |  | Certificates generated by the DNS-01 challenge cannot be renewed automatically. Please manually renew the certificate before it expires. |

[illegible]

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2. Click **OK**.
3. To add more domains, click **Create New** to add Subject Alternative Names (SAN).
 - Up to 99 SAN items are supported.
 - Make sure the domain names do not overlap, for example, "*.wc_letsacme.net" can't be added together with "a.wc_letsacme.net".
 - All domain names must point to the same public IP address.
 - When in TTP mode, refer it in back-end server, or refer it through an SNI (see [Let's Encrypt certificates](#)) when adding a back-end server. The back-end server should be in the server pool which is referenced in the desired server policy.

FortiWeb obtains an TLS certificate on your behalf from Let's Encrypt and uses it for the HTTPS connections with the client to encrypt or decrypt the traffic. If FortiWeb fails to obtain the certificate, it will try again every 2 hours until the certificate is successfully obtained.

#	Name	Domain	Status	Operation
1	1	www.fortinet.com	certificate status failed	

You can also manually obtain the certificate by clicking the **Issue** button. FortiWeb will obtain the certificate immediately.

To delete the certificate from FortiWeb, click the **Revoke** button.

#	Name	Domain	Status	Operation
1	1	www.fortinet.com	certificate status failed	

Please note that Let's Encrypt only allows 5 times of certificate obtaining failure per hour for each hostname and account. If the following error message displays, it means you have retrieved the certificate too frequently.

```

"type": "urn:ietf:params:acme:error:rateLimited",

"detail": "Error creating new order :: too many failed authorizations recently: see
https://letsencrypt.org/docs/rate-limits/"

```

After the certificate is successfully retrieved, you can refer it in the **Server Policy** settings.



In HA deployment, only active-passive mode supports Let's Encrypt certificate.

Fulfilling the DNS-01 challenge

The DNS-01 challenge asks you to prove that you control the DNS for your domain name by putting a specific value in a TXT record under that domain name.

After you have saved your Let's Encrypt certificate configuration, the DNS-01 challenge information is generated. With this information, you will configure your Public DNS Service to create the TXT record.

To obtain the TXT record:

FortiWeb-AWS_OnDemand FortiWeb

Security Fabric > User > Policy > Server Objects > Server > Protected Hostnames > Service > Certificates > Local > Let's Encrypt

XML Certificate
URL Certificate
SNI
CA
Sign CA
Intermediate CA
CRL
Certificate Verify

Edit Let's Encrypt

Name: adfasf
Domain: adfasdf.com
Type: DNS-01

DNS Content File ⓘ Download

OK Cancel

+ Create New Edit Delete

ID	Subject Alternative Name
No results	

1. Follow the steps in " **To use certificate issued by Let's Encrypt:** " to create a Let's encrypt certificate using the **DNS-01** challenge type. The **DNS Content File** isn't available to download while you are creating the certificate.

14	ns610	ns610.fwangtest1.com	0	0	0
15	abc	abc.fwangtest1.com	0	0	0
16	700	700.fwangtest1.com	0	10	0
17	test111	test111.com	0	0	0
18	test321	www.bbb.com	0	2	0

2. After the certificate is created, go back to the main table, find the certificate you just created, then click the Issue button.

FortiWeb-AWS_OnDemand FortiWeb HA: Standby

Security Fabric > User > Policy > Server Objects > Server > Protected Hostnames > Service > Certificates > Local > Let's Encrypt

XML Certificate

Edit Let's Encrypt

Name: test111
Domain: test111.com
Type: DNS-01

DNS Content File ⓘ Download

OK Cancel

ID	Subject Alternative Name
No results	

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