

How to create an SSL certificate on AWS Console

1. Sign in to the AWS Management Console

- *Go to AWS Management Console.*
- *Sign in with your AWS credentials (email and password)*

2. Navigate to AWS Certificate Manager(ACM

- *In the AWS Console, type ACM into the search bar at the top.*
- *Select Certificate Manager from the dropdown list. This will take you to the ACM dashboard.*

3. Request a New Certificate

- *Once you're in the ACM dashboard, click the "Request a certificate" button.*

4. Choose the Certificate Type

- *Public certificate: Select this if you want to create an SSL certificate trusted by most web browsers.*
- *Private certificate: This option is used for internal services, usually when an organization needs a certificate.*
- *For a typical website or application, select "Public certificate" and click Next.*

5. Add Domain Names

- *In the "Add domain names" section, enter the domain name you want to secure with SSL . For example, www.example.com or example.com*

- You can also add multiple domains or subdomains if needed (e.g., www.example.com and api.example.com).
- Click Next when you're done.

6. Select Validation Method

AWS gives you two ways to prove that you own the domain:

- *DNS Validation(Recommended): AWS provides you with a DNS record that you add to your domain's DNS settings. This is the preferred method because it's easier and automated.*
- *Email Validation AWS: sends an email to the domain's registered owner, and you confirm via a link in the email.*
- *For DNS validation, choose DNS validation and click Next.*

7. Review and Confirm

- *Review all the details you've entered: domain name(s), validation method, etc.*
- *If everything looks correct, click Confirm and request.*

8. Complete the Validation Process

If you choose DNS Validation:

- *AWS will provide you with a CNAME record.*
- *Go to your DNS provider(like Route 53 if you use AWS) and create a new CNAME record with the provided details.*
- *It may take a few minutes for DNS to propagate.*

If you choose Email Validation:

- *AWS will send a verification email to the domain's registered email addresses. You'll need to click the link in the email to confirm ownership.*

9. Wait for the Certificate to be Issued

- *Once validation is complete AWS will issue your SSL certificate. This can take a few minutes to several hours.*
- *You will see the certificate status change to Issued in the ACM dashboard.*

10. Use Your SSL Certificate

After your certificate is issued, you can use it with AWS service such as :

- *Elastic Load Balancer (ELB)*
- *Amazon CloudFront (CDN)*
- *API Gateway*

To use the certificate, go to the relevant service i the AWS Console, and when setting up an HTTPS endpoint, select the SSL certificate you just created.

11. Renewing the Certificate

- *ACM certificates are automatically renewed for public certificates, so you don't need to worry about expiration as long as DNS validation is working correctly.*