Requesting free SSL certificate

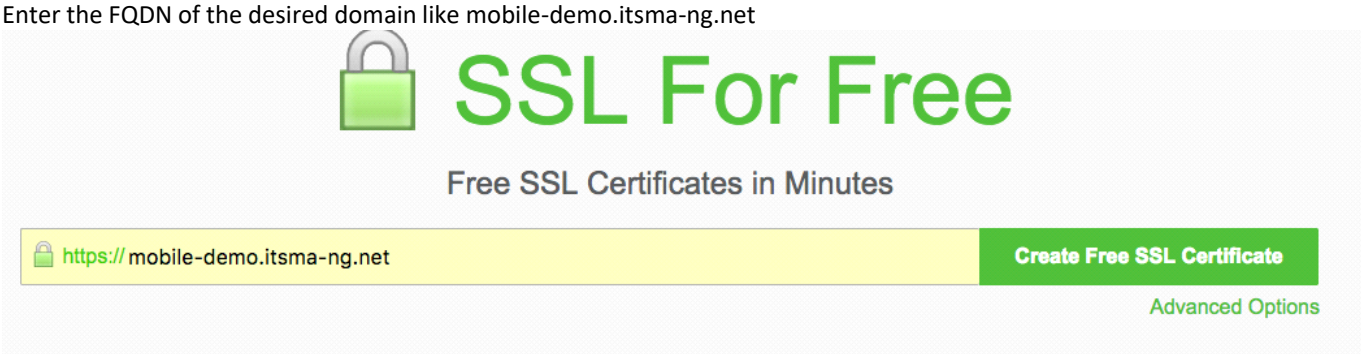
2017年10月9日 星期一 21:04

References:

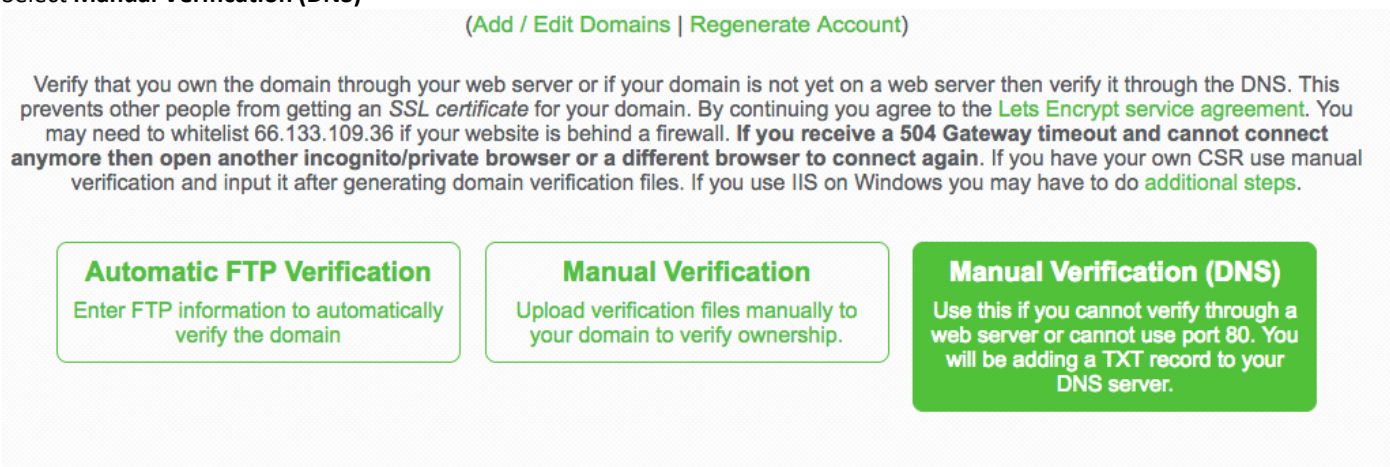
- https://www.sslforfree.com/

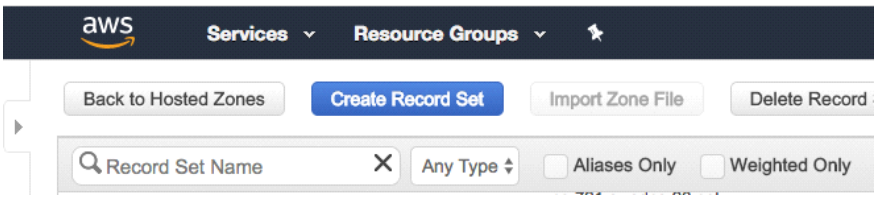
Instructions

1. Go to https://www.sslforfree.com/
2. Enter the FQDN of the desired domain like mobile-demo.itsma-ng.net

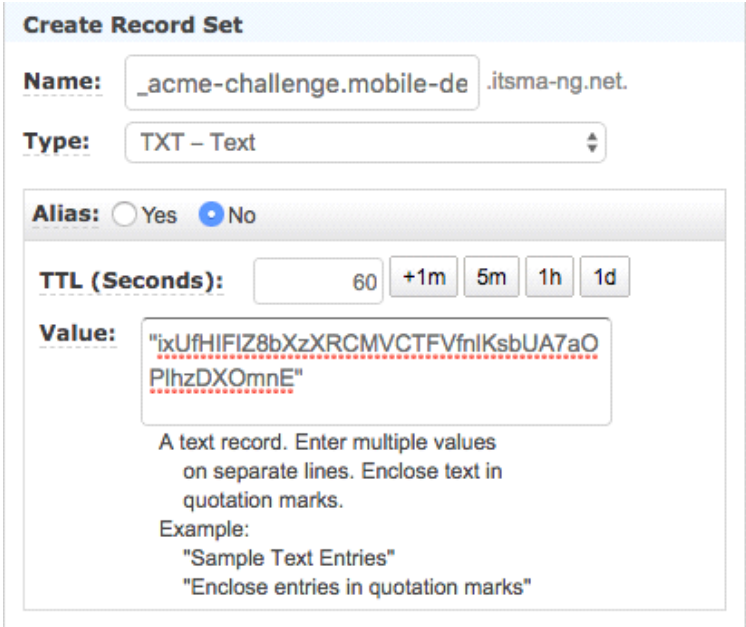


3. Click Create Free SSL Certificate
4. Select **Manual Verification (DNS)**

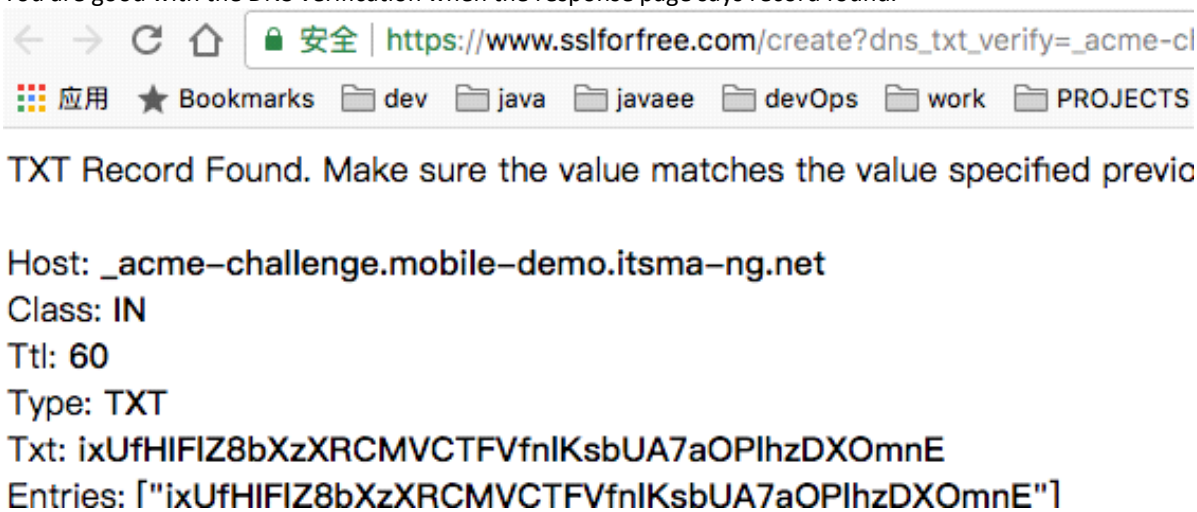


5. Click **Manual Verification**
6. In AWS Console, got to Route 53 --> Hosted Zones --> The record containing your domain
7. Click Create Record Set
8. 

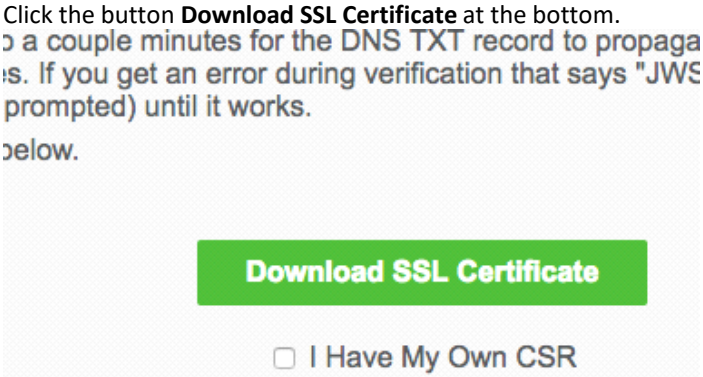
9. In the form, enter the following
   a. **Name**: you hostname in the domain name. `_acme-challenge.mobile-demo` in this example
   b. **Type**: TXT - Text
   c. Value: The generated value. `ixUfHIF1Z8bXzXRCMVCTFVfn1KsbUA7aOP1hzDXOmnE`
   d. **TTL: 1m**

10. 

11. Go back to the page where you get the verification information
12. Click the link at step #3 in section "**Upload Verification Files**"
13. You are good with the DNS verification when the response page says record found.



14. Click the button **Download SSL Certificate** at the bottom.



15. Click the button below to download all files

Replace the certificate of Ingress Service

2017年8月21日 18:25

References:

- https://docs.software.hpe.com/wiki/display/ITSMA201707/Network+and+communication

Generate free SSL certificates

- https://www.sslforfree.com/
- https://letsencrypt.org/

Skip to end of metadata
Go to start of metadata
This section provides information on network and communication security.

Replace the certificate of Ingress Service with a custom certificate

To replace the certificate and private key of Ingress Service with a custom certificate and private key, follow the steps below:

1. Generate a certificate and private key for the host on which the **Ingress Service** is running. Put the certificate and key somewhere on the master node.
2. On the master node, delete a secret with the following command:
```
kubectl delete secret nginx-default-secret -n core
```
3. On the master node, recreate the secret with the new certificate and private key:
```
echo "
apiVersion: v1
kind: Secret
metadata:
  name: nginx-default-secret
  namespace: core
data:
  tls.crt: `base64 <certificate file name with absolute path> |tr -d \"\n\"`
  tls.key: `base64 <private key file name with absolute path> |tr -d \"\n\"`
" | kubectl create -f -
```
4. On the master node, delete and recreate the ingress service.
```
kubectl delete -f ${K8S_HOME}/objectdefs/nginx-ingress.yaml
kubectl create -f ${K8S_HOME}/objectdefs/nginx-ingress.yaml
```

Replace Ingress certificate for ITSMA

1. Delete the current itsma secret named *nginx-itsma-secret* on master node
```
kubectl delete secret -n itsma1 nginx-itsma-secret
```
2. On the master node, recreate the secret with the new certificate and private key:
```
echo "
apiVersion: v1
kind: Secret
metadata:
  name: nginx-itsma-secret
  namespace: itsma1
data:
  tls.crt: `base64 /tmp/cert.crt |tr -d \"\n\"`
  tls.key: `base64 /tmp/private.key |tr -d \"\n\"`
" | kubectl create -f -
```
3. On the master node, delete and recreate the ingress deployment
```
kubectl delete -f /mnt/efs/var/vols/itom/core/suite-install/itsma/output/itom-ingress-1.0.0.013/yamls/itom-nginx-ingress-deployment.yaml
kubectl create -f /mnt/efs/var/vols/itom/core/suite-install/itsma/output/itom-ingress-1.0.0.013/yamls/itom-nginx-ingress-deployment.yaml
```