

SOP Upload SSL certificate for an existing Application

Status of SOP:

✔ Endorsed.

Related Platform	Component
Azure	Azure Application Gateway

POSSIBLE CAUSE:

- Service request from application team to upload new SSL certificate for an existing application.

This kind of request comes if: -

There is a hostname update or FQDN change in an existing application, then new certificate with updated details needs to be updated in application gateway repo.

Problem

✖ How to upload SSL certificate for an existing application?

PROCESS:

Raise a Normal Change Request

Open a Normal Change Request to implement the SR. Please go to page 20 of the below *Change Control document* :

[Service Management: As-Is Change Management \(ServiceNow\)](#)

Please select the respective Cloud Factory assignment group when raising a change request in Service Now

Cloud Network - Hub Connectivity - Azure

WORKFLOW OF THE SNOW REQUEST

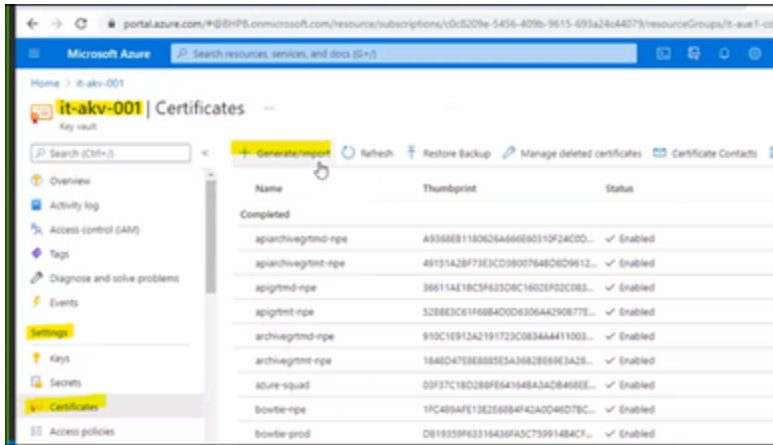
Verify the SNOW request for below points:

- Certificate should be attached by the user in SR along with application name, application gateway
- Certificate should be attached by user in **.pfx** format

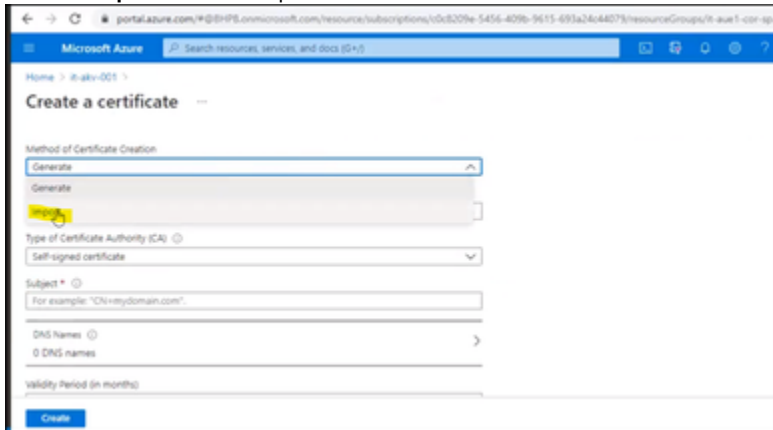
If user hasn't provided the password for certificate proactively, drop an email to user for the password. This password would be used while importing the certificate in Key Vault.

Solution

1. Go to Azure portal and search for **it-akv-001** Key vault which is present in **BHP-Technology-Shared Services** subscription.
2. Go to **Certificates** under **Settings** and click on **Generate/Import** to import the certificate.



3. Select **Import** from the drop-down menu.



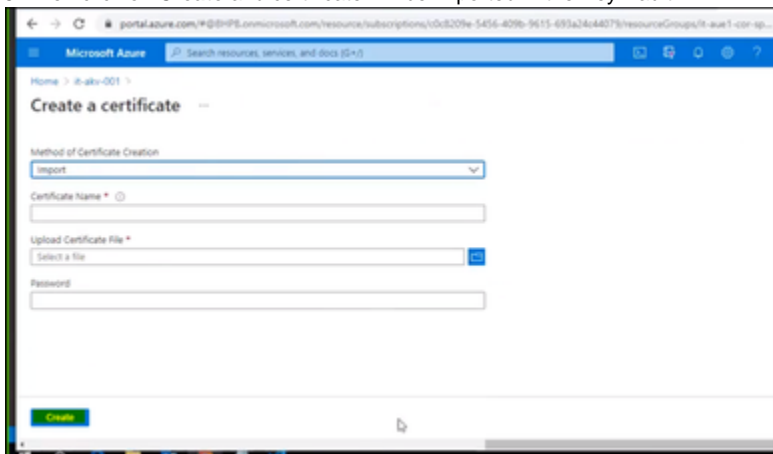
4. Fill in the certificate name in below format:

- `npe/prod-applicationName`

Here npe stands for Non-Prod

5. Browse .pfx file from your local computer and type in the password shared by the user for certificate.

6. Then click on **Create** and certificate will be imported in the Key Vault.



7. Click on **Certificate Name (Fig a)** and then **CURRENT VERSION (Fig b)**.

Fig (a)

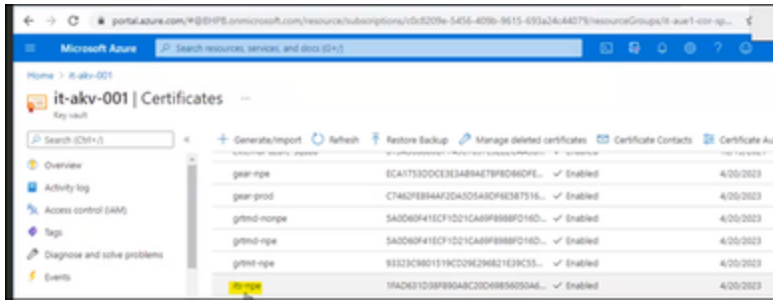
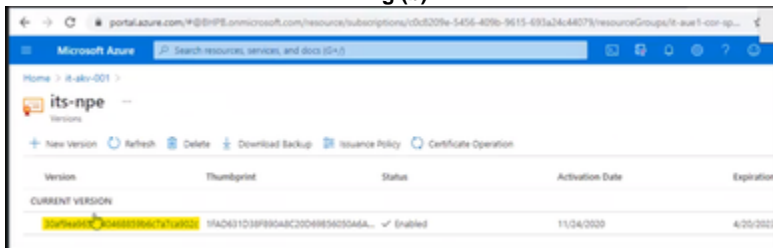
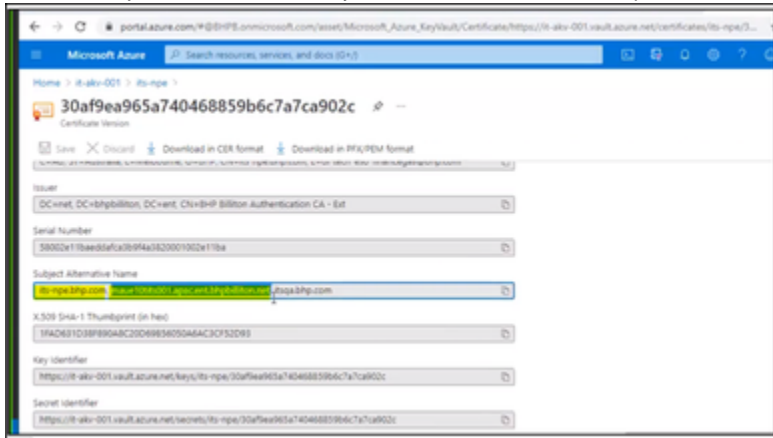


Fig (b)



8. Under Subject Alternative Name, you will find **hostname** as first parameter and **fqdn** as second parameter. Copy both values.



9. Choose the Application Gateway repo based on the type of application.

- If the application is internet facing, go to below external-ingress gateway repo:

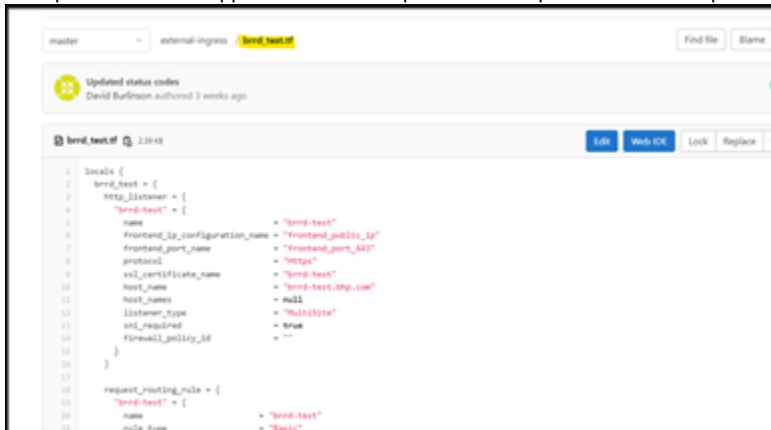
<https://gitlab.com/bhp-cloudfactory/azure-foundations/external-ingress>

- If its an internal application, go to below internal-ingress gateway repo:

<https://gitlab.com/bhp-clodfactory/azure-foundations/internal-ingress>

Name	Last commit	Last update
idea	external application gateways	4 months ago
images	update readme	3 months ago
pub_certs	Removed CA requirement. Added BRROAPL	4 weeks ago
README.md	Update README.md	2 months ago
bmd_test.tf	Updated status codes	3 weeks ago
bmdapi-test.tf	Updated status codes	3 weeks ago
ingress.tf	update app gateway version that allows an e...	4 weeks ago
meta_au1.tf	update app gateway version that allows an e...	4 weeks ago
meta_au1_npe.tf	Fixed missing comma	4 weeks ago
meta_au1e.tf	update app gateway version that allows an e...	4 weeks ago
meta_au1e_npe.tf	update app gateway version that allows an e...	4 weeks ago
meta_au1nc.tf	add trusted root certs	1 month ago

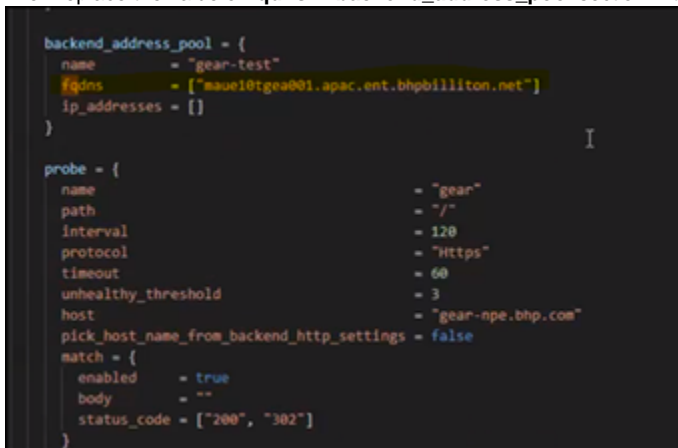
10. Open the desired application .tf file as per SNOW request. Below example shows a non-prod application file.



11. In this file replace the value of all occurrences of below parameters with the hostname value which you copied in **STEP h**

- host_name
- host

Then replace the value of **fqdns** in **backend_address_pool** section with new **fqdn** value which was copied in **STEP h**



12. After you make the changes in the file, respective workspace workflow will be triggered.

13. Go to Terraform workspace and apply the changes.

14. Go to Azure portal to validate the changes.

15. Drop an email to Application team to validate the application functionality.