Configure Azure Service Principal secret expiry Notification

Perquisites:

• Create Resource Group

Home > Resource groups >

Create a resource group ...

Basics	Tags	Review + create						
Resource group - A container that holds related resources for an Azure solution. The resource group can include all the resources for the solution, or only those resources that you want to manage as a group. You decide how you want to allocate resources to resource groups based on what makes the most sense for your organization. Learn more								
Project details								
Subscription * ①				~				
Re	esource g	roup * ①	mneu-rg-css-corevault-002	~				
Resource	details							
Region *	(i)		(Europe) North Europe	~				

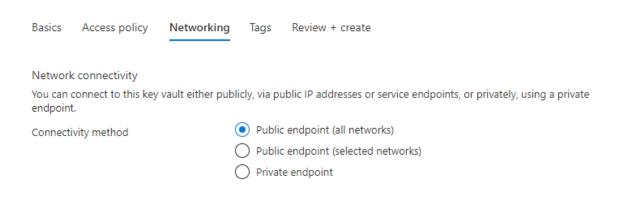
• Create Azure Key vault

Create key vault ...

Basics	Access policy	Networking	Tags	Review + create					
Azure Key Vault is a cloud service used to manage keys, secrets, and certificates. Key Vault eliminates the need for developers to store security information in their code. It allows you to centralize the storage of your application secrets which greatly reduces the chances that secrets may be leaked. Key Vault also allows you to securely store secrets and keys backed by Hardware Security Modules or HSMs. The HSMs used are Federal Information Processing Standards (FIPS) 140-2 Level 2 validated. In addition, key vault provides logs of all access and usage attempts of your secrets so you have a complete audit trail for compliance.									
Project details									
Select the subscription to manage deployed resources and costs. Use resource groups like folders to organize and manage all your resources.									
Subscription * Resource group *				<u> </u>					
			mneu-rg-o	css-corevault-001					
Instance details									
Key vault name * ①		r	mneu-p-i-	corevault-004					
Region *	Region *		North Europe						
Pricing tier * ①		5	Standard	~					
Recovery options									
Soft delete protection will automatically be enabled on this key vault. This feature allows you to recover or permanently delete a key vault and secrets for the duration of the retention period. This protection applies to the key vault and the secrets stored within the key vault.									
To enforce a mandatory retention period and prevent the permanent deletion of key vaults or secrets prior to the retention period elapsing, you can turn on purge protection. When purge protection is enabled, secrets cannot be purged by users or by Microsoft.									
Soft-delete ①		En	Enabled						
Days to retain deleted vaults * ①			90						
Purge pro	tection ①		 Disable purge protection (allow key vault and objects to be purged during retention period) 						
				purge protection (enforce a mandatory retention period for deleted and vault objects)					



Create key vault

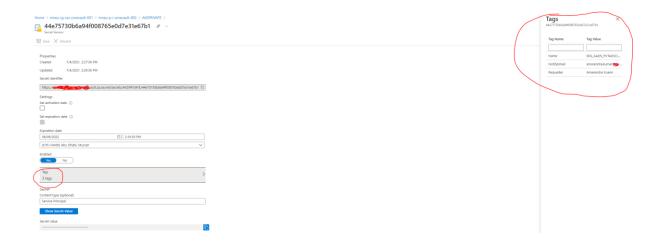


Create a secret ...



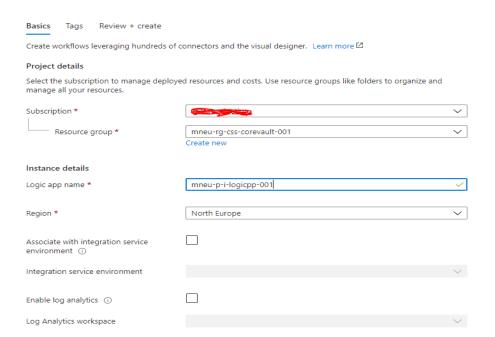
Create Tags for secret in Key Vault

- 1. Name
- 2. NotifyEmail
- 3. Requester

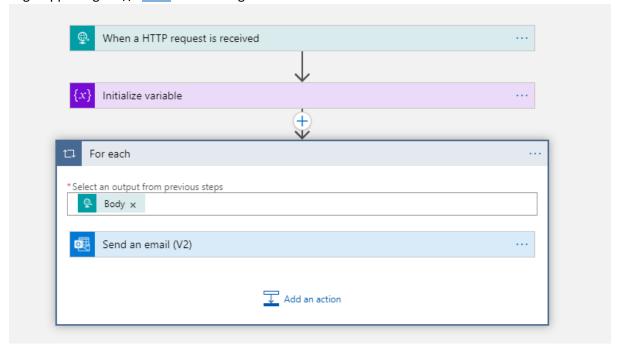


• Create Azure Logic app

Create a logic app ...



Logic app designer //- code availble in git



- Create Azure Devops pipeline
 - o Create Azure repo & upload the pipeline.yaml file

```
# Add steps that build, run tests, deploy, and more:
         - repo: self
     cron: "30 7 * * *"
      displayName: Daily Keyvault Expiry Notification Cron
           include:
            - feature/*
     always: true
 steps:
          azureSubscription: 'Vault-Connection' # Azure Service principal details
          scriptType: 'bash'
              echo $(pwd)
                #expiryBefore=$(date --date="30 day" +"%Y-%m-%d")
               today=$(date +"%Y-%m-%d")
               echo $today
               expiryBefore=$(date -d "$today 15 days" +%Y-%m-%d)
                echo $expiryBefore
                #======Send Notification to Microsoft Teams ======
                #az keyvault secret list --vault-name mneu-p-i-corevault-002 --query "[?attributes.enabled==\`true\` && attributes.expires <= \`$expiryBefore\`].{ expires: attributes.ex
                #curl -H 'Content-Type: application/json' -d "{"text": '$keyvaultlist'}" PUT THE URL OF TEAMS WEBHOOK URL
                                           =======Send Notification to Microsoft Logic Apps =
                keyvaultlist=`cat output.json`
               #for i in 'seq 0 $(cat ./output.json | jq -r '. | length')'; do echo $i; sleep 2; SPName=$(cat ./output.json | jq -r '.['$i']. SPName'); echo $SPName; Requester=$(cat ./output.json | jq -r '.['$i']. SPName'); echo $SPName; Requester=$(cat ./output.json | jq -r '.['$i']. SPName'); echo $SPName; Requester=$(cat ./output.json | jq -r '.['$i']. SPName'); echo $SPName; Requester=$(cat ./output.json | jq -r '.['$i']. SPName'); echo $SPName; Requester=$(cat ./output.json | jq -r '.['$i']. SPName'); echo $SPName; Requester=$(cat ./output.json | jq -r '.['$i']. SPName'); echo $SPName; Requester=$(cat ./output.json | jq -r '.['$i']. SPName'); echo $SPName; Requester=$(cat ./output.json | jq -r '.['$i']. SPName'); echo $SPName; Requester=$(cat ./output.json | jq -r '.['$i']. SPName'); echo $SPName; Requester=$(cat ./output.json | jq -r '.['$i']. SPName'); echo $SPName; Requester=$(cat ./output.json | jq -r '.['$i']. SPName'); echo $SPName; Requester=$(cat ./output.json | jq -r '.['$i']. SPName'); echo $SPName; Requester=$(cat ./output.json | jq -r '.['$i']. SPName'); echo $SPName; Requester=$(cat ./output.json | jq -r '.['$i']. SPName'); echo $SPName; Requester=$(cat ./output.json | jq -r '.['$i']. SPName'); echo $SPName; Requester=$(cat ./output.json | jq -r '.['$i']. SPName'); echo $SPName; Requester=$(cat ./output.json | jq -r '.['$i']. SPName'); echo $SPName; Requester=$(cat ./output.json | jq -r '.['$i']. SPName'); echo $SPName; Requester=$(cat ./output.json | jq -r '.['$i']. SPName'); echo $SPName; Requester=$(cat ./output.json | jq -r '.['$i']. SPName'); echo $SPName; Requester=$(cat ./output.json | jq -r '.['$i']. SPName'); echo $SPName; Requester=$(cat ./output.json | jq -r '.['$i']. SPName'); echo $SPName; Requester=$(cat ./output.json | jq -r '.['$i']. SPName*(cat ./output.json | jq -r '.['$i'].
```

Create service connection using Service Principal as below

