

- 1. In the previous lab we used the parameters as secure strings to secure our password.
- 2. Now in this lab we will see another method to secure our password by using the key vault service which we can find in Azure Portal.
- 3. First in your Azure Portal search for key vaults and create a vault for yourself.
- 4. Now while creating your Vault remember to turn on **Azure resource manager for template deployment.**
- 5. After that just create your vault.

Basics	Access configuration	Networking	Tags	Review + create

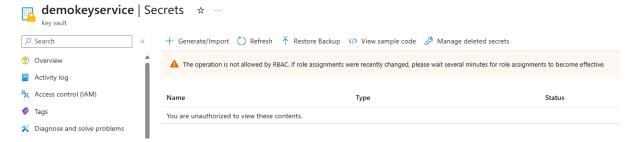
## Configure data plane access for this key vault

To access a key vault in data plane, all callers (users or applications) must have proper authentication and authorization.

## Permission model

Grant data plane access by using a Azure RBAC or Key Vault access policy

- Azure role-based access control (recommended) 
  Vault access policy
- Resource access
- Azure Virtual Machines for deployment <sup>①</sup>
  ✓ Azure Resource Manager for template deployment <sup>①</sup>
  Azure Disk Encryption for volume encryption <sup>①</sup>
  - 6. Once your deployment is complete click on go to resource.
  - 7. Then from the secrets tab go towards it and generate a new secret.



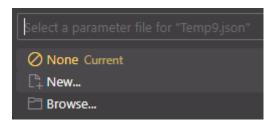
8. Give it a name and password of your choice and then just create your secret.

Upload options	Manual
Name * ①	vmpassword
Secret value * ①	
Content type (optional)	
Set activation date ①	
Set expiration date ①	
Enabled	Yes No
Tags	0 tags

- 9. Now come back to VS Code and create a new file for this lab.
- 10. Then copy the code from the previous lab.
- 11. There is a small change instead of secure string this time we will use only string.

- 12. The only thing now is we need to pass the value. So, instead of us entering a value, the template needs to pick up the value from the Azure Key vault.
- 13. For this, we need to again create a parameter file. I'll click here in Visual Studio code to create a new parameter file.

14. Then you have to click on new after that choose all parameters then click on save.





15. Below you can see in the parameter file we have defined a password which is referring to our key vault and we have mentioned its ID.

16. Now to get your key vault ID, from your left pane choose properties.

## Settings

- Access configuration
- Networking
- Microsoft Defender for Cloud
- Properties
- Locks
  - 17. Then choose the resource ID.



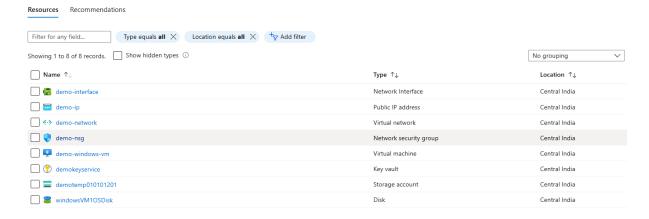
- 18. Once all this is done now you are going to deploy this template using power shell.
- 19. Click on terminal and choose new terminal and there you need to run this command mentioned below.

New-AzResourceGroupDeployment -ResourceGroupName demo-template-group - TemplateFile Temp9.json -TemplateParameterFile temp9.parameters.json

20. Now after some time you can see that the deployment was successful.



21. Now you have to go back to Portal and check for your resources and there you can see everything.



22. Now you can try to login to your VM and there you will see that everything executed successfully.