

# Failed to deploy CMK-BYOK

Last updated by | Hamza Aqel | Nov 20, 2020 at 11:01 AM PST

**ISSUE or ERROR:** Failed to save Data Encryption settings The provided Key Vault uri '<https://keyvaultformysql.vault.azure.net/keys/keyvaultformysql8test/545a541b5dca48a9b1acb12071075bdd>' is not valid. Please ensure the key vault has been configured with soft-delete.

**Investigation/Analysis** Reviewed the Documentation links and reproduced in our environment

## Mitigation:

Enable purge protection under properties under setting blade of key vault. If you don't enable purge protection you will have the above error.

**Public Doc Reference** <https://docs.microsoft.com/en-us/azure/mysql/concepts-data-encryption-mysql>

## Screen Shots:

The top screenshot shows the 'Data encryption' settings for an Azure Database for MySQL server. The 'Key vault' field contains the URI 'https://keyvaultformysql.vault.azure.net/keys/keyvaultformysql8test/545a541b5dca48a9b1acb12071075bdd', which is highlighted in yellow. The 'Key' field also contains the same URI. A notification on the right indicates 'Failed to save Data Encryption settings' with the same error message.

The bottom screenshot shows the 'Properties' blade for the 'keyvaultformysql' Key Vault. The 'Soft delete' section shows 'Soft delete has been enabled on this key vault'. The 'Purge protection' section shows 'Purge protection' is enabled, with a note: 'Enable purge protection to enforce a mandatory retention period for deleted vaults and vault objects.'

If all of the above settings are correct, which you can check too from ASC , by going to resource explorer and select the key vault resource , you will see the below properties:

Skus	Premium
TenantId	72f988bf-86f1-41af-91ab-2d7cd011db47
AccessPolicies	
EnabledForDeployment	False
EnabledForDiskEncryption	False
EnabledForTemplateDeployment	False
EnableSoftDelete	True
EnablePurgeProtection	True
EnableRbacAuthorization	False

Please check the CMK key recoveryLevel , you can do that by running the below AZ command :

**az keyvault key show --vault-name keyvaultname -n keyname**

the expected result should be :

```
{
  "attributes": {
    "created": "2020-09-28T10:30:54+00:00",
    "enabled": true,
    "expires": null,
    "notBefore": null,
    "recoveryLevel": "Recoverable",
    "updated": "2020-09-28T10:30:54+00:00"
  },
}
```

We currently supporting only the Recoverable options, other options like:

```
{
  "attributes": {
    "created": "2020-04-22T09:49:53+00:00",
    "enabled": true,
    "expires": null,
    "notBefore": null,
    "recoveryLevel": "Recoverable+Purgeable",
    "updated": "2020-04-22T09:49:53+00:00"
  },
}
```

Here the purge protection is not enabled, ask the customer to enable it.

```
{
  "attributes": {
    "created": "2020-11-20T15:56:01+00:00",
    "enabled": true,
    "expires": null,
    "notBefore": null,
    "recoveryLevel": "CustomizedRecoverable",
    "updated": "2020-11-20T15:56:01+00:00"
  },
}
```

Here the customer created a key vault with retention less than 90 days, which we don't

support too, please ask the customer to create a new keyvault with 90 days of retention.

**Root Cause Classification** Advisory: How to use key vault for Azure mysql server

**How good have you found this content?**



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