Error 45336 The operation could not be completed because is an invalid Server Key name

Last updated by | Vitor Tomaz | Nov 16, 2022 at 12:58 PM PST

Contents

Scenario

Error 45336: The operation could not be completed because 'unit-sale-sql-shrd-dev-001-sqlkey' is an invalid Server Key name. Please provide a key name in the format of 'vault_key_version'.

You will encounter this error if the server key name is formatted incorrectly.

Customer scenario: Although Azure SQL Managed Instances are deployed with TDE auto-enabled, according to customer's security requirement, they wanted to enable TDE using customer-managed keys with automation, but the ARM template deployment failed on 'Microsoft.Sql/managedInstances/keys'.

Client-side error:

```
{
  "code": "DeploymentFailed",
  "message": "At least one resource deployment operation failed. Please list deployment operations for details
  "details": [
    {
      "code": "InternalServerError",
      "message": "An unexpected error occured while processing the request. Tracking ID: 'd3e4458a-11ac-433d-a
    }
  ]
}
```

Troubleshooting

- Customer could enable TDE manually with success.
- Confirmed the key exists and was stored in the Azure key vault.

- Confirmed the server key name did not contain typos.
- Confirmed key vault was acessible--nested deployment granting access to the key vault ran successfully.

Kusto

Query:

```
// Check the running opertion
let subscription = '{SubscriptionId}';
let MI = '>{ResourceName}<';
cluster('{kustoCluster}').database('{kustoDatabase}').MonManagementOperations
| where subscription_id =~ subscription or SubscriptionId =~ subscription
| where TIMESTAMP >= datetime('{StartTimeUTC}') and TIMESTAMP <= datetime('{EndTimeUTC}')
| where event == 'management_operation_start'
| where operation_parameters contains MI
| project PreciseTimeStamp, request_id, operation_type, operation_parameters
| join kind = leftouter
(cluster('{kustoCluster}').database('{kustoDatabase}').MonManagementOperations
    | where subscription_id =~ subscription or SubscriptionId =~ subscription
    | where event != 'management_operation_start'
    | where operation_parameters contains MI
    | project PreciseTimeStamp, request_id, event, error_code, error_message, operation_result
    ) on request_id
    | extend Result=replace(@'management_operation_*', @'\1', event)
    | extend Input = tostring(parse_xml(operation_parameters))
    | extend Output = tostring(parse_xml(operation_result))
    | extend Input = replace(@'"@xmlns:xsd":"http://www.w3.org/2001/XMLSchema",', @'\1', Input)
    | extend Input = replace(@'"@xmlns:xsi":"http://www.w3.org/2001/XMLSchema-instance",', @'\1', Input)
    | extend Output = replace(@'"@xmlns:xsd":"http://www.w3.org/2001/XMLSchema",', @'\1', Output)
    | extend Output = replace(@'"@xmlns:xsi":"http://www.w3.org/2001/XMLSchema-instance",', @'\1', Output)
    | extend InputParams = iif(Input != '', parse_json(Input).InputParameters, '')
    | extend OutputParams = iif(Output != '', parse_json(Output).OutputParameters, '')
    | project PreciseTimeStamp, PreciseTimeStamp1, request_id, Result, operation_type, error_code, error_messa
    | project-rename StartTime = PreciseTimeStamp, EndTime = PreciseTimeStamp1
```

Error

```
"Result": management_operation_failure,
"operation_type": UpsertManagedServerEncryptionKeys,
"error_code": 45336,
"error_message": The operation could not be completed because 'customer-sales-unit-sql-shrd-dev-001-sqlkey' is
the format of 'vault_key_version'. For example, if the keyId is https://YourVaultName.vault.azure.net/keys/You
formatted as: YourVaultName_YourKeyName_YourKeyVersion.,
```

Mitigation

Format MI server key name as **YourVaultName_YourKeyName_YourKeyVersion**:

Ex: cxp-akv-001.vault.azure.net_sqlmi-key-001_718e1ef6f0a84acd90c6249656bcb312

Classification

Root Cause: Azure SQL v3/Security/TDE and Customer Managed Key (CMK)

How good have you found this content?