

# Install required modules if not already installed

Install-Module -Name Microsoft.PowerShell.SecretManagement -Force -AllowClobber

Install-Module -Name Microsoft.PowerShell.SecretStore -Force -AllowClobber

# Import the required modules

Import-Module Microsoft.PowerShell.SecretManagement

Import-Module Microsoft.PowerShell.SecretStore

# Set up HashiCorp Vault connection details

$vaultAddress = "https://your-vault-address"

$vaultTokenSecretName = "VaultToken" # Replace with the name of your secret containing the Vault token

# Set up MongoDB Atlas connection details

$mongoUriSecretName = "MongoUri" # Replace with the name of your secret containing the MongoDB Atlas connection string

$mongoDatabase = "your\_mongo\_database"

$mongoCollection = "your\_mongo\_collection"

# Set up SQL Server connection details

$sqlServerSecretName = "SqlServer" # Replace with the name of your secret containing the SQL Server connection details

# Fetch secret from HashiCorp Vault

function Get-VaultSecret {

param(

[string]$secretName

)

$vaultSecret = Get-Secret -Name $secretName -Vault $vaultAddress

return $vaultSecret.Secret

}

# Fetch MongoDB Atlas connection string from HashiCorp Vault

$mongoUri = Get-VaultSecret -secretName $mongoUriSecretName

# Fetch SQL Server connection details from HashiCorp Vault

$sqlServerSecret = Get-VaultSecret -secretName $sqlServerSecretName

$sqlServer = $sqlServerSecret.Server

$sqlDatabase = $sqlServerSecret.Database

$sqlUsername = $sqlServerSecret.Username

$sqlPassword = $sqlServerSecret.Password

# MongoDB Atlas API endpoint for real-time metrics

$metricsUrl = "https://cloud.mongodb.com/api/atlas/v1.0/groups/{group\_id}/clusters/{cluster\_name}/processes"

# MongoDB Atlas API key

$atlasApiKeySecretName = "AtlasApiKey" # Replace with the name of your secret containing the MongoDB Atlas API key

$atlasApiKey = Get-VaultSecret -secretName $atlasApiKeySecretName

# SQL Server connection string

$sqlConnectionString = "Server=$sqlServer;Database=$sqlDatabase;Integrated Security=False;User ID=$sqlUsername;Password=$sqlPassword;"

# Fetch real-time metrics from MongoDB Atlas

function Fetch-Metrics {

$headers = @{

"Content-Type" = "application/json"

"Atlas-Api-Key" = $atlasApiKey

}

$response = Invoke-RestMethod -Uri $metricsUrl -Headers $headers -Method Get

return $response

}

# Insert metrics into SQL Server

function Insert-Metrics($metricsData) {

foreach ($metric in $metricsData) {

$timestamp = Get-Date

$metricName = $metric.name

$metricValue = $metric.value

$query = "INSERT INTO YourMetricsTable (Timestamp, MetricName, Value) VALUES ('$timestamp', '$metricName', '$metricValue')"

Invoke-Sqlcmd -ServerInstance $sqlServer -Database $sqlDatabase -Username $sqlUsername -Password $sqlPassword -Query $query

}

}

# Fetch and insert metrics

$metricsData = Fetch-Metrics

Insert-Metrics $metricsData