**QUICKKART – THE E-COMMERCE APPLICATION**

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**-: Quickkart** is an *E-Commerce Web Application*.

Users can buy products and commodities using this web app.

**Ultimate Requirement:**

This web app needs to be fully architected in Azure Cloud.

**Technology Stack:**

**Front-End:** Angular 13

**Backend**: Dotnet 3.1

**DB**: Azure SQL Server.

**Blob**: Azure Blob Container.

**TASK-3: IMPLEMENTING CONTINUOUS DEPLOYMENT PIPELINE**

**Goal**:

* Learn to build CD mechanism using Classic Interface.
* Understand Approval mechanism + Gates.

**1.** Make sure the Source code is present in the Azure Repos.

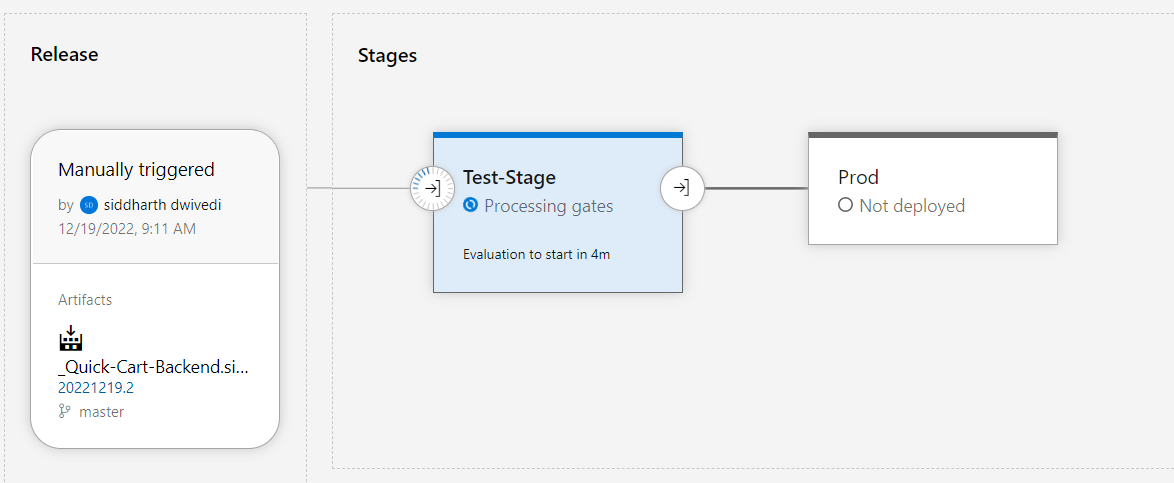
**2.** Make sure the CI Pipeline is building the solution and keeping the Binaries in Artifact.

**3**. Create a new Release Pipeline, which will deploy the changes to Azure App Service. **Artifact CI pipeline -> deploy the app – app service**

**4**. There should be 2 stages, Test and Prod.

Test stage- deploy artifact – test slot in app svc

Prod stage – prod slot



Service principal-

{

"clientId": "b874dded-0ac3-48a4-82f9-97e0d9f57c99",

"clientSecret": "ON98Q~pqwOnPxFNlac0H48XEQ1aLr2smUz5a2alE",

"subscriptionId": "e6b761fc-f852-4952-a285-9edfc03004db",

"tenantId": "020b8790-e5af-4bd7-963f-edff530c1907",

"activeDirectoryEndpointUrl": "https://login.microsoftonline.com",

"resourceManagerEndpointUrl": "https://management.azure.com/",

"activeDirectoryGraphResourceId": "https://graph.windows.net/",

"sqlManagementEndpointUrl": "https://management.core.windows.net:8443/",

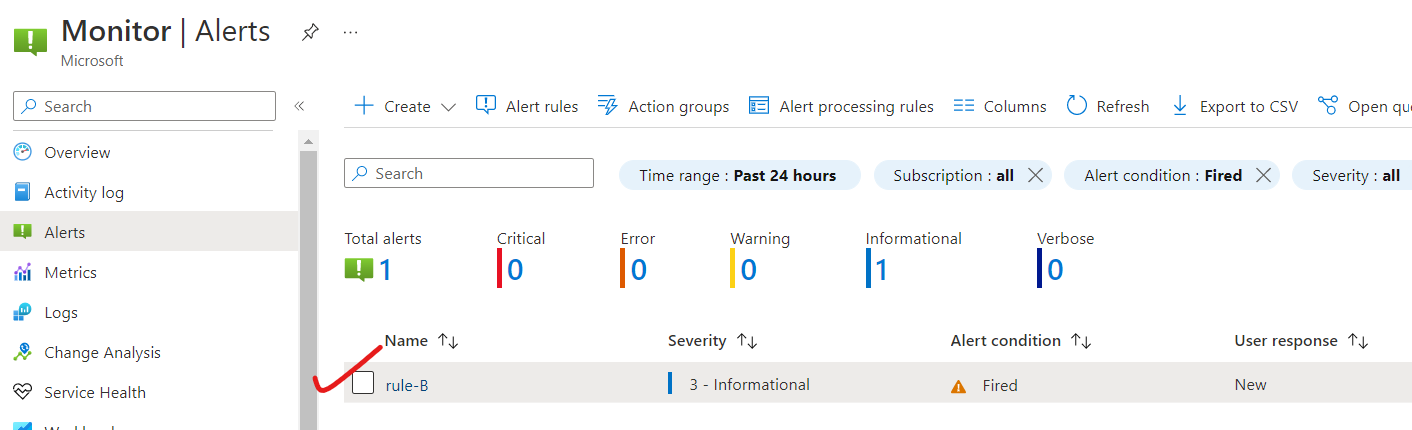
"galleryEndpointUrl": "https://gallery.azure.com/",

"managementEndpointUrl": "https://management.core.windows.net/"

}

**5**. Test Stage should also have a **Post-deployment Condition (GATE**) that if there is any **Azure Monitor Alerts** raised on the Test-App Service (Average Working Memory Set > 1 Byte) then the further deployment should stop.

**Gate- - before code moves to prod**



**6**. **Prod Stage** should have an **Approval (Pre-deployment condition)** in place which would always ask one person for **manual approval** before the Prod deployment.

Keep the timeout to be 5 mins.

**7**. Make sure that the DB Value is coming from the Keyvault.

"DBConnectionString": "Server=tcp:ctb35komal.database.windows.net,1433;Initial Catalog=DB-CT35-Komal;Persist Security Info=False;User ID=komal;Password=Cloudthat@123;MultipleActiveResultSets=False;Encrypt=True;TrustServerCertificate=False;Connection Timeout=30;"

**Create App insights dashboard – display key metrics**