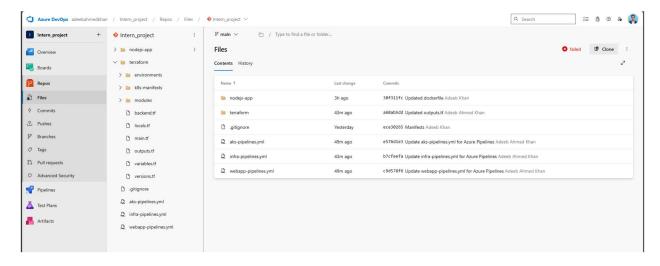
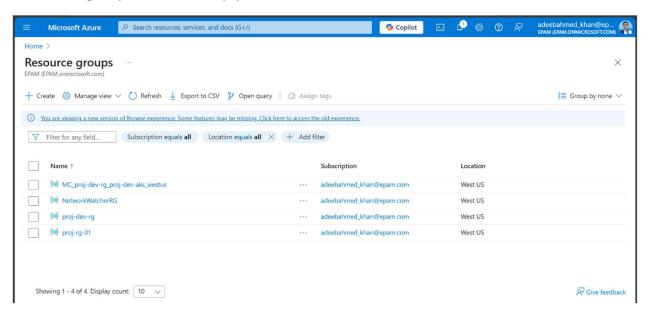
Intern Project: Azure Cloud Infrastructure & CI/CD Implementation

Task 1: Infrastructure Deployment with Terraform

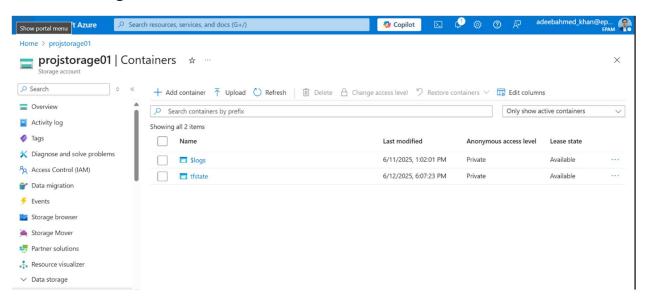
Repository structure on Azure DevOps portal:



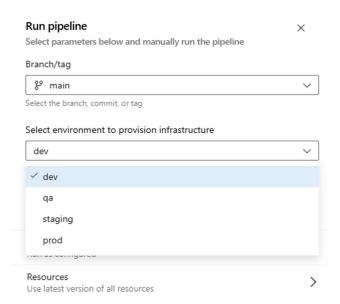
Resource groups created via pipeline:



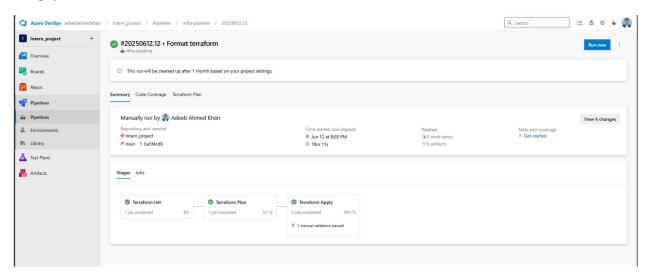
Backend storage container:



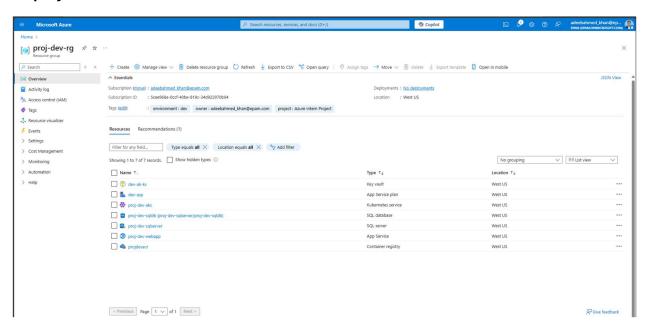
Environments configured:



Successful execution of infrastructure pipeline (with manual validation on apply stage):



Deployment of each resource:



Intern Name: Adeeb Ahmed Khan UID: 661425

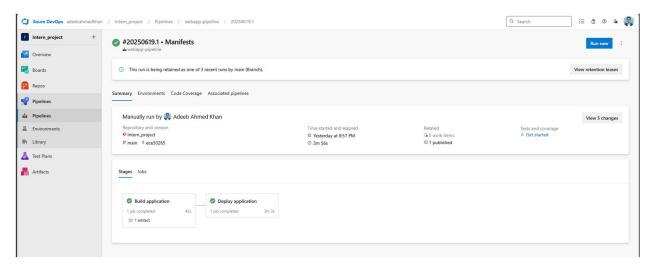
Task 2: CI/CD Pipeline Setup

a) Web-app CI/CD:

Agents configured to execute jobs:



Successful execution of web-app pipeline (build and deployed via artifact):



Node.js web-app deployed on App Service (with database connection):



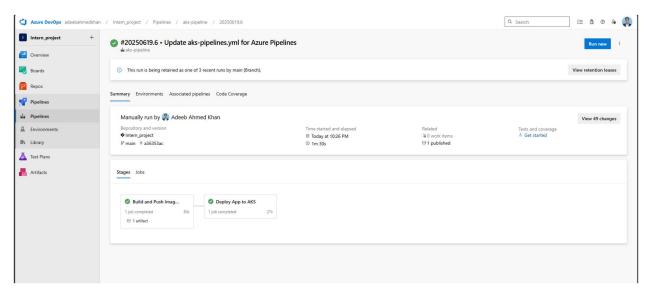
```
Pretty-print  ("UserID": 1,
    "FirstName": "Alice",
    "LastName": "Johnsone",
    "Bail": "alice: 3phnson@example.com",
    "DateOfBirth": "1990-05-12100:00:00.0002",
    "CreatedAt": "2025-06-17113:59:25.4102",
    "IsActive": true
},
{
    "UserID": 2,
    "FirstName": "Bob",
    "LastName": "Snith",
    "Bail": "bob.smith@example.com",
    "DateOfBirth": "1905-09-23100:00:00.0002",
    "CreatedAt": "2025-06-17113:59:25.4102",
    "IsActive": true
},
{
    "UserID": 3,
    "FirstName": "Brown",
    "Email": "charlie.lprown@example.com",
    "DateOfBirth": "2000-01-15100:00:00.0002",
    "CreatedAt": "2025-06-17113:59:25.4102",
    "IsActive": true
},

**IsActive": true

**IsActive": true
```

b) Docker App to AKS - CI/CD:

Successful execution of aks pipeline (pushed image to ACR and deployed to AKS):



Intern Name: Adeeb Ahmed Khan

UID: 661425

AKS utilities:

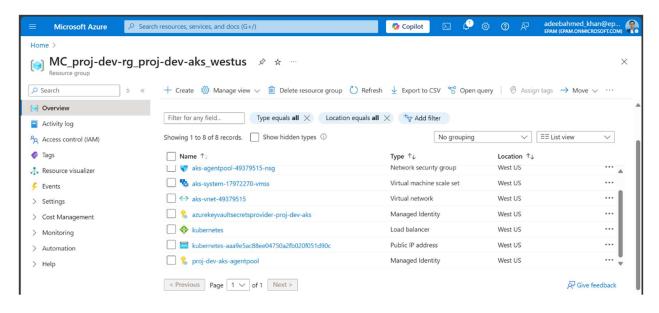
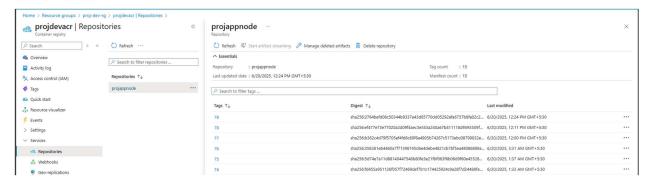
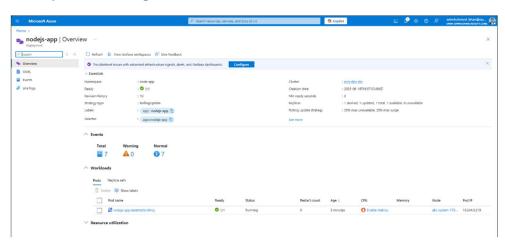


Image pushed to ACR repository:



Pod up and running:

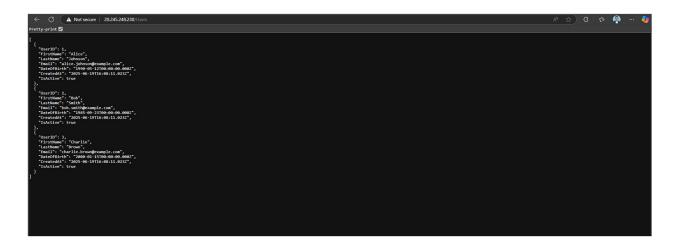


Intern Name: Adeeb Ahmed Khan

UID: 661425

App deployed to AKS:





Branch policies for approval:

