

DevOps Lab Activity 6

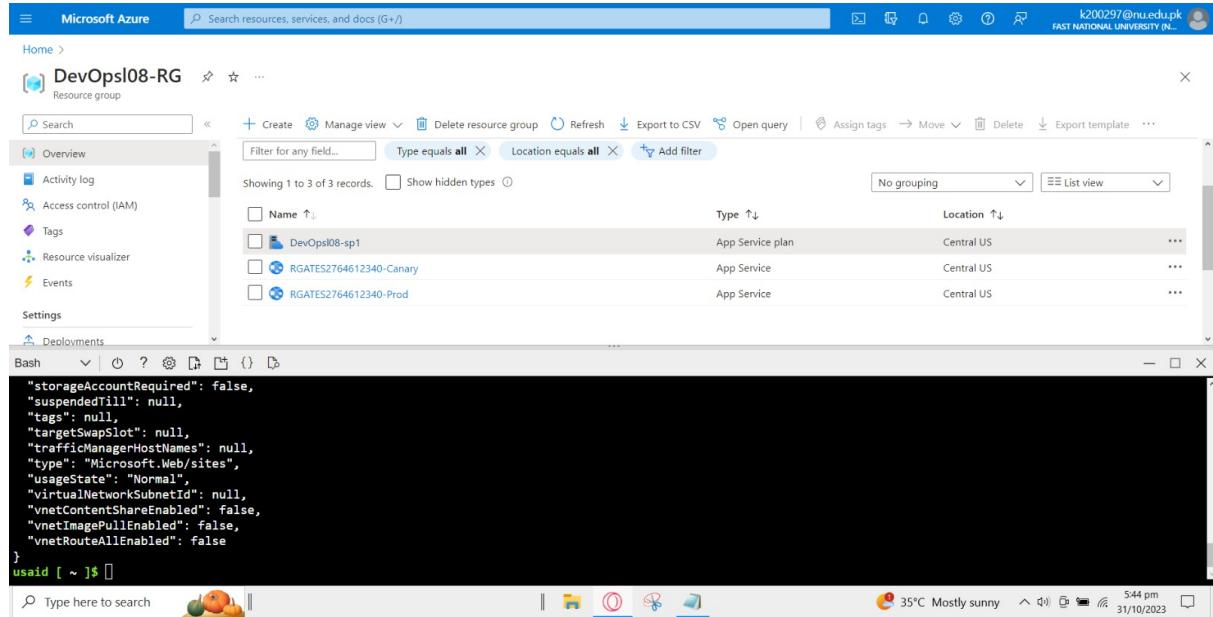
By: 20K-0297 of: CS-7A

Exercise 0

Already done in previous lab so skipped

Exercise 2

Task 1:



The screenshot shows the Microsoft Azure Resource Group overview page for the 'DevOps08-RG' group. The left sidebar includes options like Overview, Activity log, Access control (IAM), Tags, Resource visualizer, Events, and Settings. The main area displays a list of resources with columns for Name, Type, and Location. Three resources are listed:

Name	Type	Location
DevOps08-sp1	App Service plan	Central US
RGATES2764612340-Canary	App Service	Central US
RGATES2764612340-Prod	App Service	Central US

A Bash terminal window is open at the bottom, showing the command 'usaid [~]\$' and some JSON output related to the resources.

Task 2:

Microsoft Azure Search resources, services, and docs (G+/-) k200297@nu.edu.pk FAST NATIONAL UNIVERSITY (N...)

Home > Microsoft.AppInsights | Overview

Deployment

Search Delete Cancel Redeploy Download Refresh

Your deployment is complete

Deployment name : Microsoft.AppInsights
Subscription : Azure for Students
Resource group : DevOpsl08-RG

Start time : 10/31/2023, 5:48:46 PM
Correlation ID : 0a9edc2b-7a1d-4853-9910-65bef05c5984

Deployment details
Next steps Go to resource

Give feedback Tell us about your experience with deployment

https://portal.azure.com/#view/HubsExtension/DeploymentDetailsBlade/~/inputs/id/%2Fsubscriptions%2F3b86766b-76cf-441b-bd81-da629bcb5a3d%2FresourceGroups%2FDevOpsl08-RG%2Fproviders%2FMicrosoft.Resources%2Fdeployments%2FMicroso...
Type here to search 549 pm 31/10/2023

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Home > DevOpsl08-RG > RGATES2764612340-Canary

RGATES2764612340-Canary | Application Insights

Web App

Search Enable Disable Feedback

Application Insights

Collect application monitoring data using Application Insights

Link to an Application Insights resource

Your app is connected to Application Insights resource: **Canary**

As part of using Application Insights instrumentation, we collect and send diagnostic data to Microsoft. This data helps us run and improve Application Insights. You have the option to disable non-essential data collection. [Learn more](#)

Change your resource

Instrument your application

Info .NET .NET Core Node.js Java Python

Please select the language you chose during creation of the application to see instrumentation details and additional configurations if available.

Apply

Apply Changes Changes are applied.

Create an alert rule

Project details

Select the subscription and resource group in which to save the alert rule.

Subscription * Resource group * Create new

Alert rule details

Severity * Alert rule name * Alert rule description

Advanced options

Settings

Enable upon creation Automatically resolve alerts

Review + create Previous Next: Tags >

29°C Partly cloudy 9:33 pm 31/10/2023

Notifications

More events in the activity log → Dismiss all

Alert rule created

Alert rule RGATESCanary_FailedRequests successfully created. It might take a few minutes for changes to be shown.

a minute ago

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Exercise 3

Azure DevOps k200297 / eShopOnWeb / Pipelines / Releases

All pipelines > New release pipeline

Pipeline Tasks Variables Retention Options History

Canary Deployment process

Run on agent Run on agent

Deploy Azure App Service Azure App Service deploy

Stage name Canary

Parameters | Unlink all

Azure subscription * | Manage

Azure for Students (3b86766b-76cf-441b-bd81-da629bcb5a3d)

Scoped to subscription 'Azure for Students'

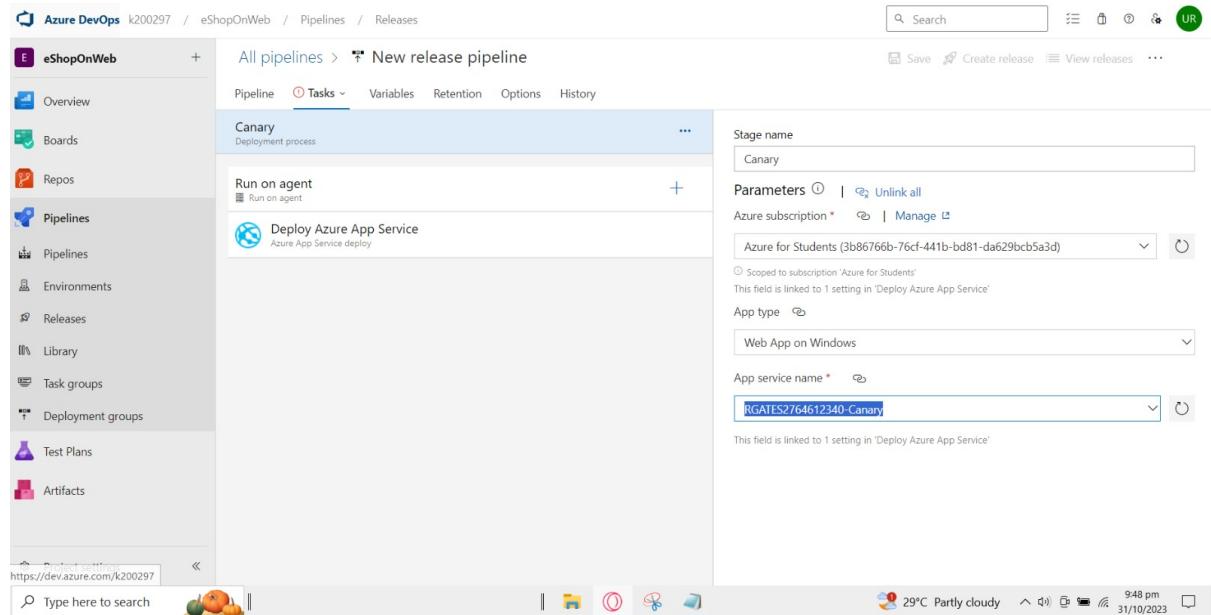
This field is linked to 1 setting in 'Deploy Azure App Service'

App type Web App on Windows

App service name * RGATES2764612340-Canary

This field is linked to 1 setting in 'Deploy Azure App Service'

29°C Partly cloudy 9:48 pm 31/10/2023



Azure DevOps k200297 / eShopOnWeb / Pipelines / Releases / New release pipeline

All pipelines > New release pipeline

Pipeline Tasks Variables Retention Options History

Canary Deployment process

Run on agent Run on agent

Deploy Azure App Service Azure App Service deploy

Display name * Deploy Azure App Service

Connection type * Azure Resource Manager

Azure subscription * | Manage

Azure for Students (3b86766b-76cf-441b-bd81-da629bcb5a3d)

Scoped to subscription 'Azure for Students'

App Service type * Web App on Windows

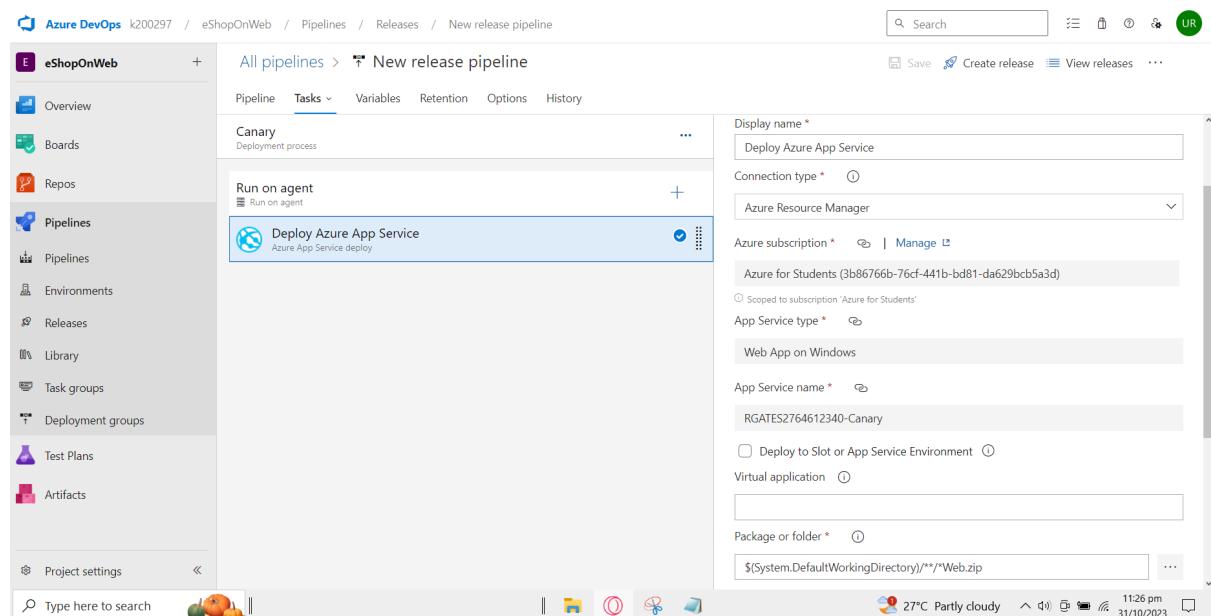
App Service name * RGATES2764612340-Canary

Deploy to Slot or App Service Environment

Virtual application

Package or folder * \$(System.DefaultWorkingDirectory)/**/*Web.zip

27°C Partly cloudy 11:26 pm 31/10/2023



Azure DevOps k200297 / eShopOnWeb / Pipelines / Releases / New release pipeline / Release-3

New release pipeline > Release-3

Pipeline Variables History + Deploy Cancel Refresh Edit ...

Release Stages

Continuous deployment for Usaid Bin Rehan 10/31/2023, 10:26 PM

Canary Succeeded on 10/31/2023, 10:30 PM

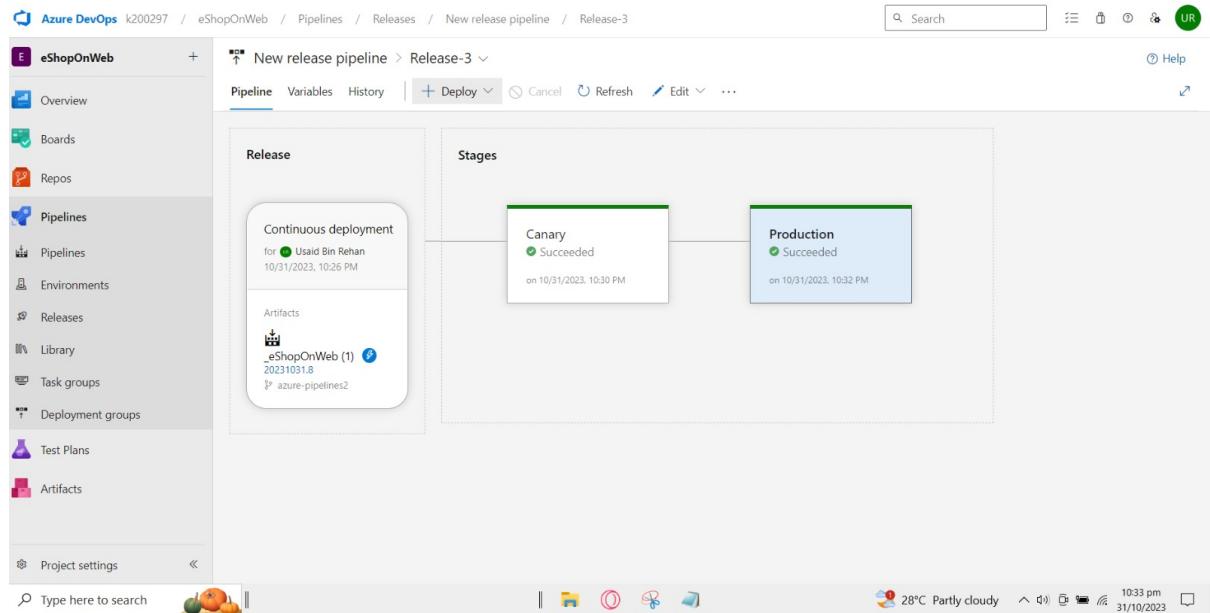
Production Succeeded on 10/31/2023, 10:32 PM

Artifacts eShopOnWeb (1) 20231031.8 azure-pipelines

Type here to search

Project settings

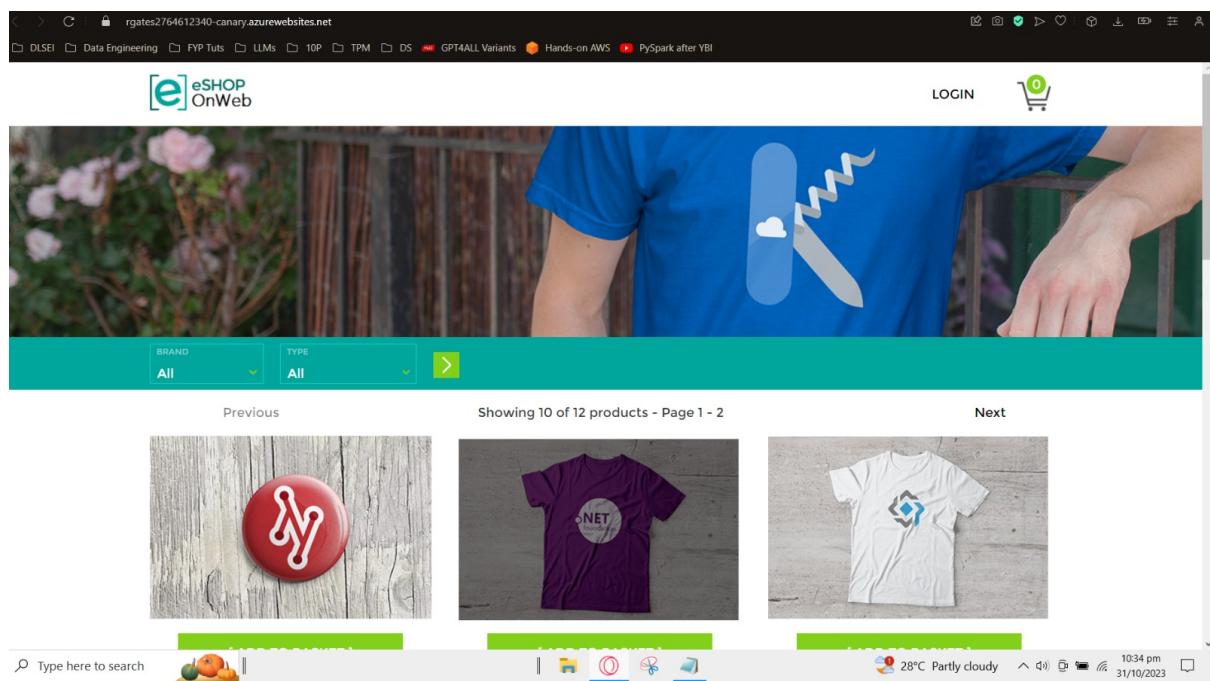
28°C Partly cloudy 10:33 pm 31/10/2023

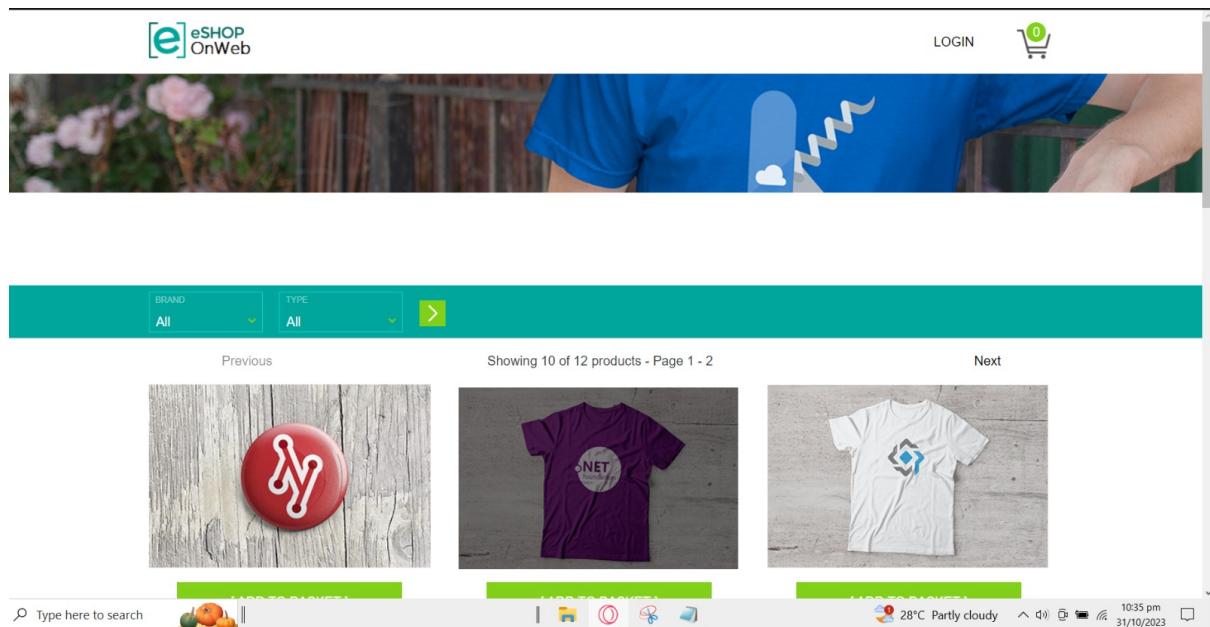


rgates2764612340-canary.azurewebsites.net

DSEI Data Engineering FYP Tuts LLMs 10P TPM DS GPT4ALL Variants Hands-on AWS PySpark after YBI

eSHOP OnWeb LOGIN 0





Exercise 4

Task 1:

A screenshot of the Azure DevOps Pipelines interface. The left sidebar shows project navigation with 'eShopOnWeb' selected. Under 'Pipelines', 'New release pipeline' is being created. The main pane shows the 'Pipeline' tab with a 'Stages' section. It contains an 'Artifacts' step pointing to '_eShopOnWeb (1)' and a 'Stages' step labeled 'Canary' which contains '1 job, 1 task'. To the right, there are sections for 'Pre-deployment conditions' (with 'Canary' selected), 'Triggers' (disabled), 'Pre-deployment approvals' (enabled, with 'Usaid Bin Rehan' listed as an approver), and 'Approval policies' (checkboxes for skipping approval if the same user approves again). The bottom of the screen shows a weather widget and system status indicators.

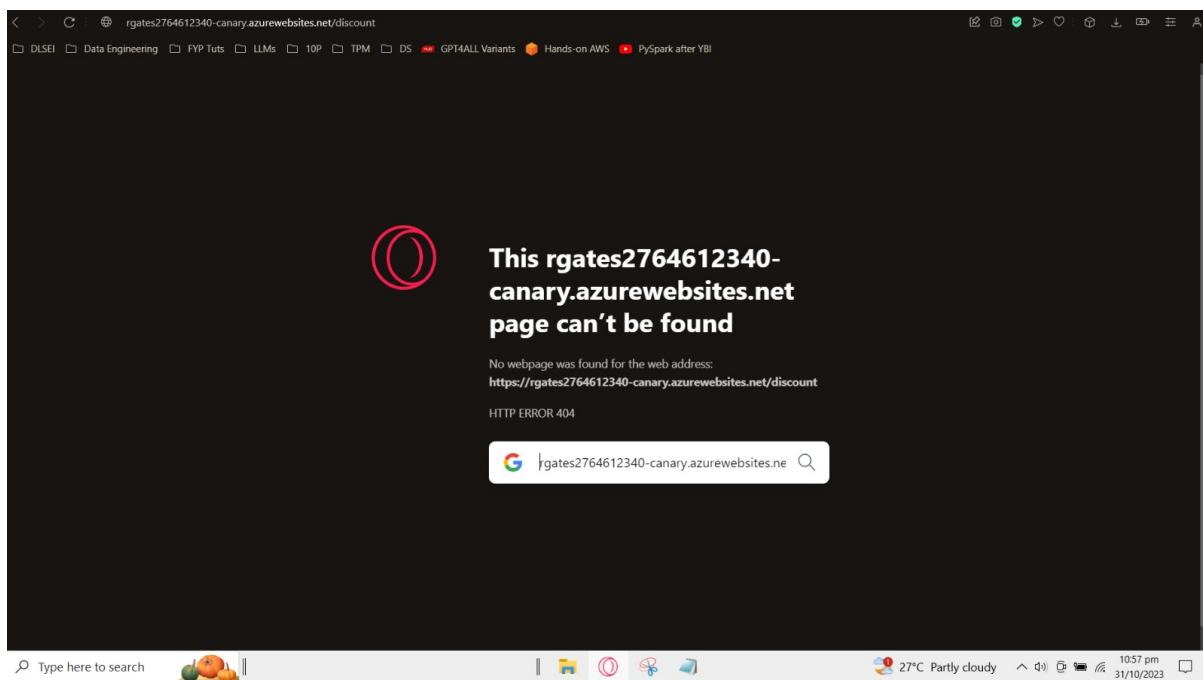
The screenshot shows the Azure DevOps interface for a project named 'eShopOnWeb'. The left sidebar is open, showing various navigation options like Overview, Boards, Repos, Pipelines, Environments, Releases, Library, Task groups, Deployment groups, Test Plans, and Artifacts. The 'Pipelines' option is selected. In the main area, a pipeline named 'New release pipeline > Release-5' is displayed. The pipeline has a single stage named 'Canary'. The stage is triggered by a manual trigger (Usaid Bin Rehan on 10/31/2023, 10:41 PM). The stage contains an artifact named 'eShopOnWeb (1)'. The stage status is 'Approved' (Usaid Bin Rehan on 10/31/2023, 10:41 PM). The pipeline summary indicates it was manually triggered.

Task 2:

This screenshot shows the configuration of a new release pipeline. The left sidebar is identical to the previous screenshot. In the main area, the pipeline configuration screen is shown. It includes sections for 'Artifacts' (with an artifact named 'eShopOnWeb (1)' and a note about 'Schedule not set') and 'Stages' (with a single stage named 'Canary' containing one job and one task). On the right side, there are sections for 'Output Variables', 'Evaluation options' (including time between re-evaluation of gates at 5 minutes), 'Gates and approvals' (set to 'On successful gates, ask for approvals'), and an 'Auto-redeploy trigger' section which is currently disabled. The pipeline is set to 'Save'.

Exercise 5

Task 1:



Home > Canary

Canary | Alerts

Application Insights

Search

View as timeline (preview) | + Create | Alert rules | Action groups | Alert processing rules | Change user response | Actions | Refresh

New: View alerts visualized on a timeline for a clearer picture of your events. You can switch between views anytime. [View as timeline \(preview\)](#)

Search

Resource name: Canary

Time range: Past 24 hours

Alert condition: Fired

Severity: all

Add filter

Total alerts: 1

Name	Severity	Affected resource	Alert condition	User response	Fire time
RGATEScanary_FailedRequests	Warning	canary	Fired	New	10/31/2023, 10:58 PM

Give feedback

Type here to search

27°C Partly cloudy 10:57 pm 31/10/2023

Azure DevOps k200297 / eShopOnWeb / Pipelines / Releases / New release pipeline / Release-6

Pipeline Variables History + Deploy Cancel Refresh Edit ...

Stages

Canary

No samples yet 5m to next sample

Gates View logs

No samples have yet arrived Waiting for all gates to succeed within the same sample interval

Deployment gates \ samples 11:01 PM 11:06 PM 11:11 PM Next in 5m

Query Azure Monitor alerts X X X

Project settings

Type here to search

27°C Partly cloudy 11:11 pm 31/10/2023

Exercise 6

Microsoft Azure Search resources, services, and docs (G+/)

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Create a resource Subscriptions Application Insights Resource groups Tenant properties Microsoft Defender for... Kubernetes services Function App Quickstart Center More services

Resources

Recent Favorite

Name	Type	Last Viewed
Canary	Application Insights	5 minutes ago
RGATES2764612340-Prod	App Service	37 minutes ago

Bash Requesting a Cloud Shell.Succeeded. Connecting terminal... Welcome to Azure Cloud Shell Type "az" to use Azure CLI Type "help" to learn about Cloud Shell usaid [~]\$ az group list --query "[?starts_with(name,'DevOps108-RG')].name" --output tsv DevOps108-RG usaid [~]\$ az group list --query "[?starts_with(name,'DevOps108-RG')].[name]" --output tsv | xargs -L1 bash -c 'az group delete --name \$0 --no-wait --yes' usaid [~]\$ https://portal.azure.com/#home

Type here to search 27°C Partly cloudy 11:13 pm 31/10/2023