Shaheed Zulfikar Ali Bhutto Institute of Science and Technology

Department of Software Engineering

Bisma Saeed – 2280108

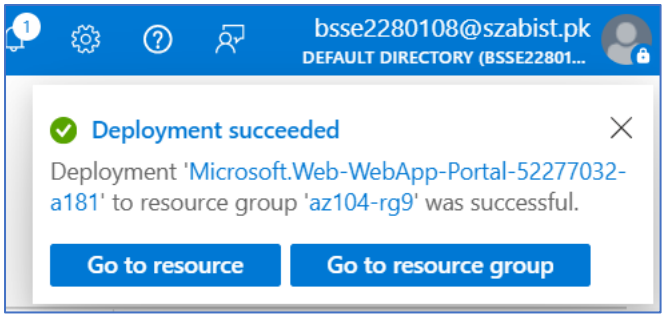
BSSE – 7A

Lab: 09 A

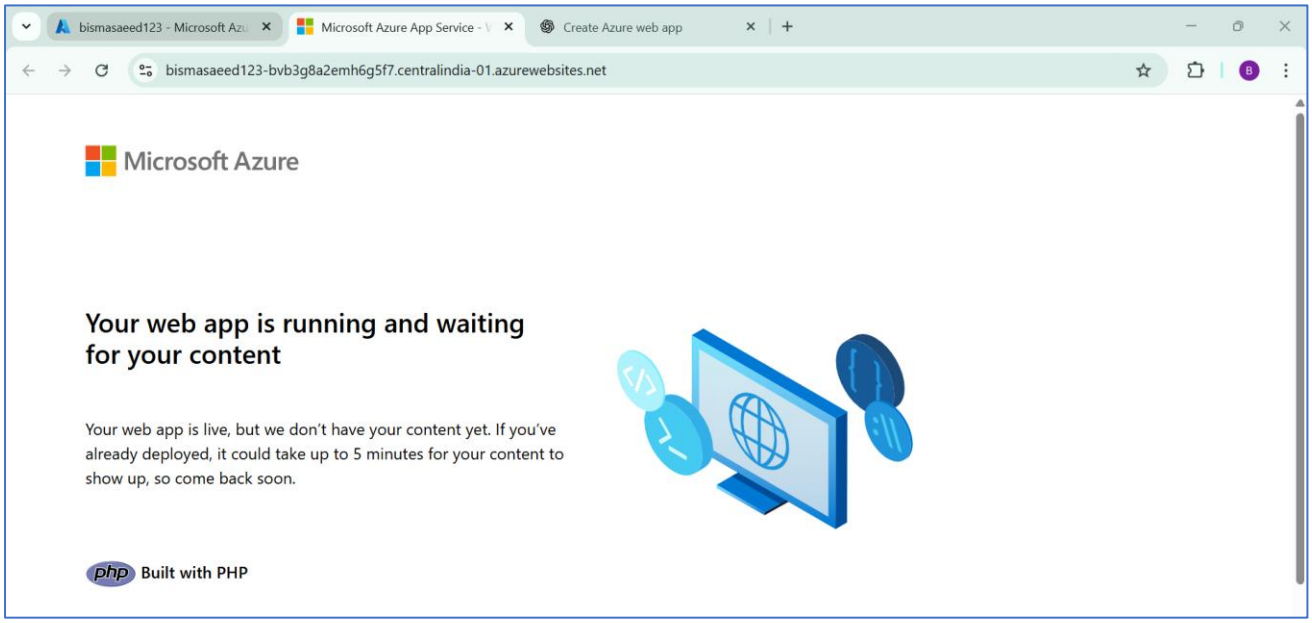
Implement Web Apps'
Administer PaaS Compute Options

+ Task 1: Create and configure an Azure web app.
+ Task 2: Create and configure a deployment slot.
+ Task 3: Configure web app deployment settings.
+ Task 4: Swap deployment slots.
+ Task 5: Configure and test autoscaling of the Azure web app.

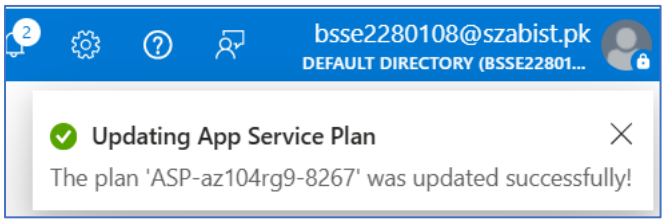
Task 1: Create and configure an Azure web app

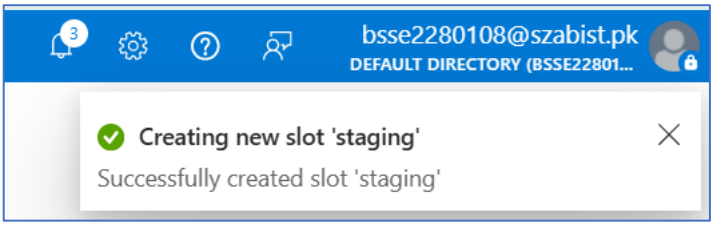


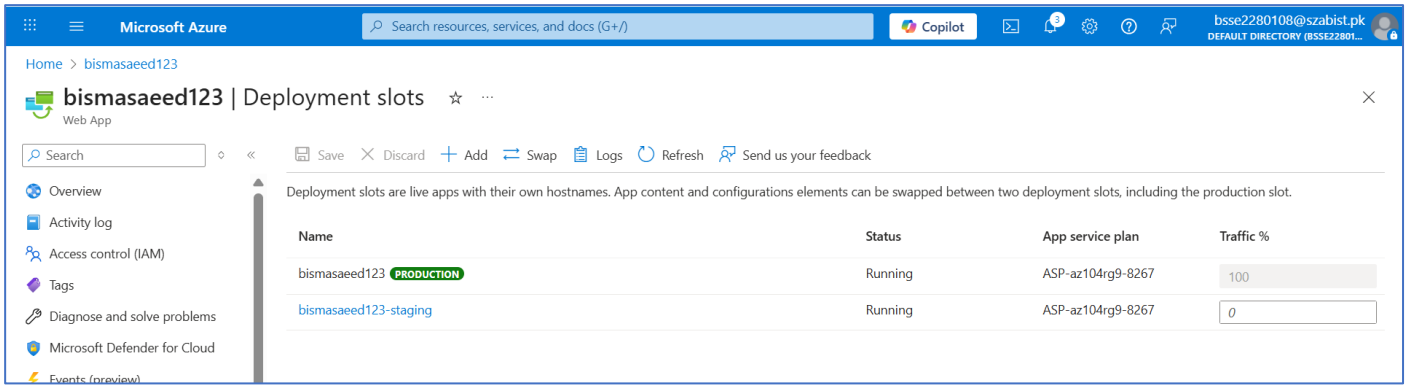
Task 2: Create and configure a deployment slot



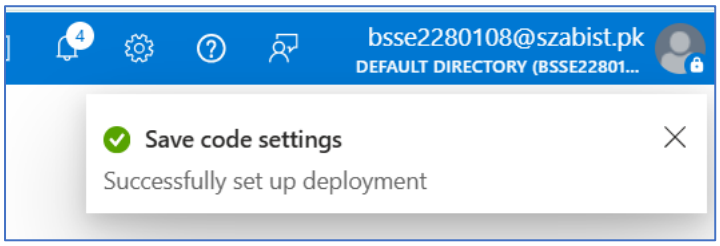
Upgrades to standard 1 from free for making slots.

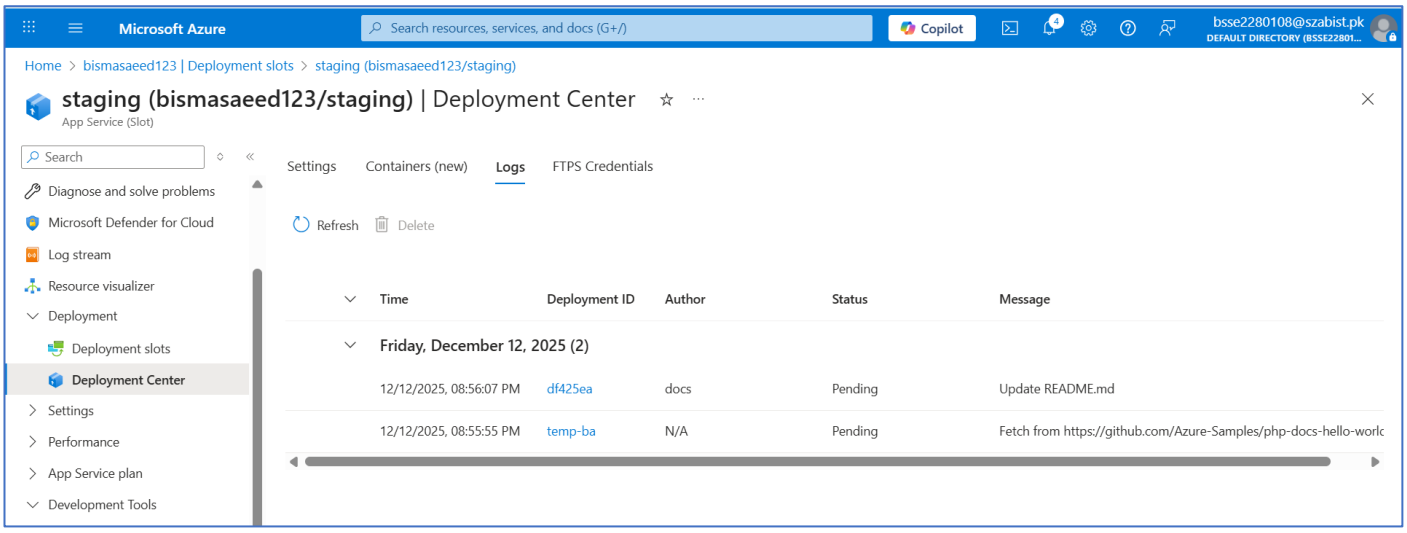


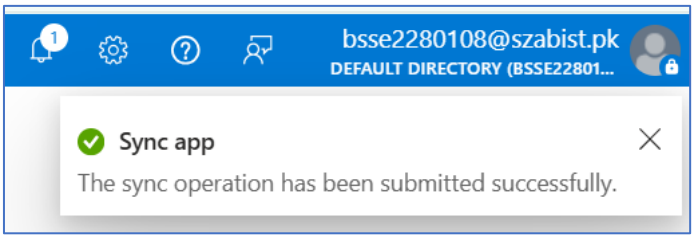


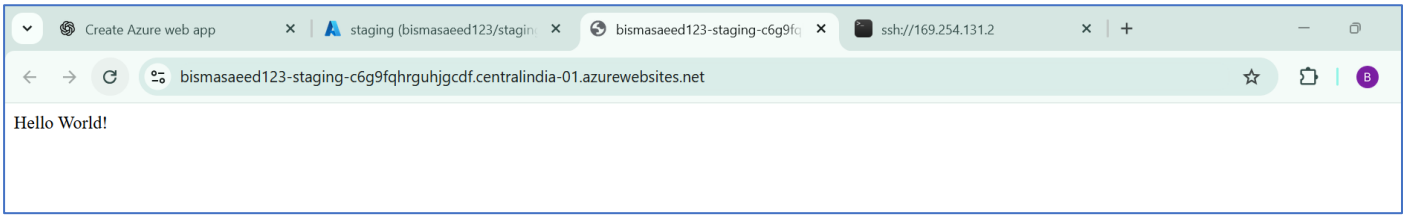


Deployment Center:





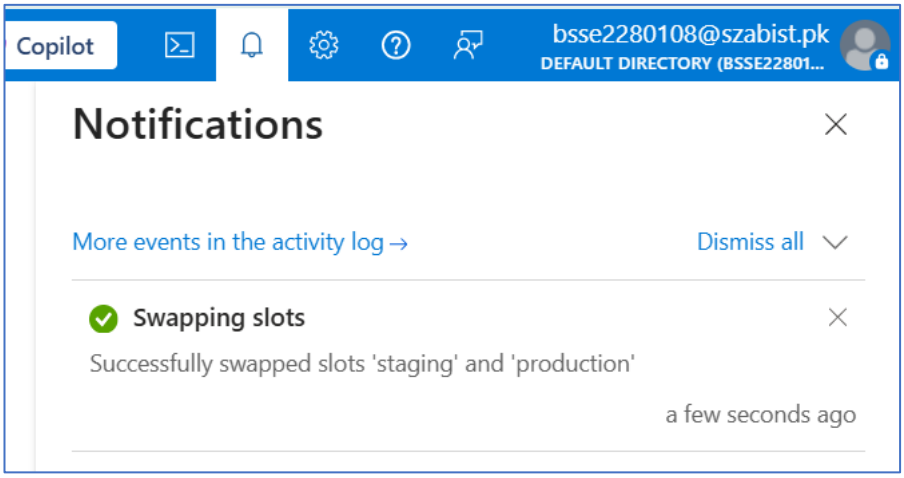


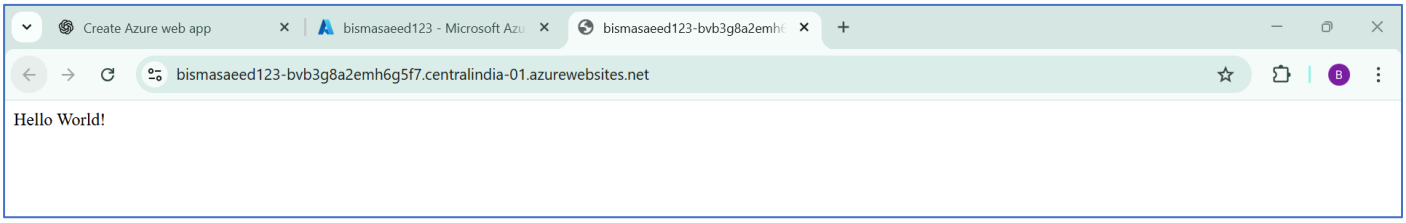


Task 3: Configure Web App deployment settings

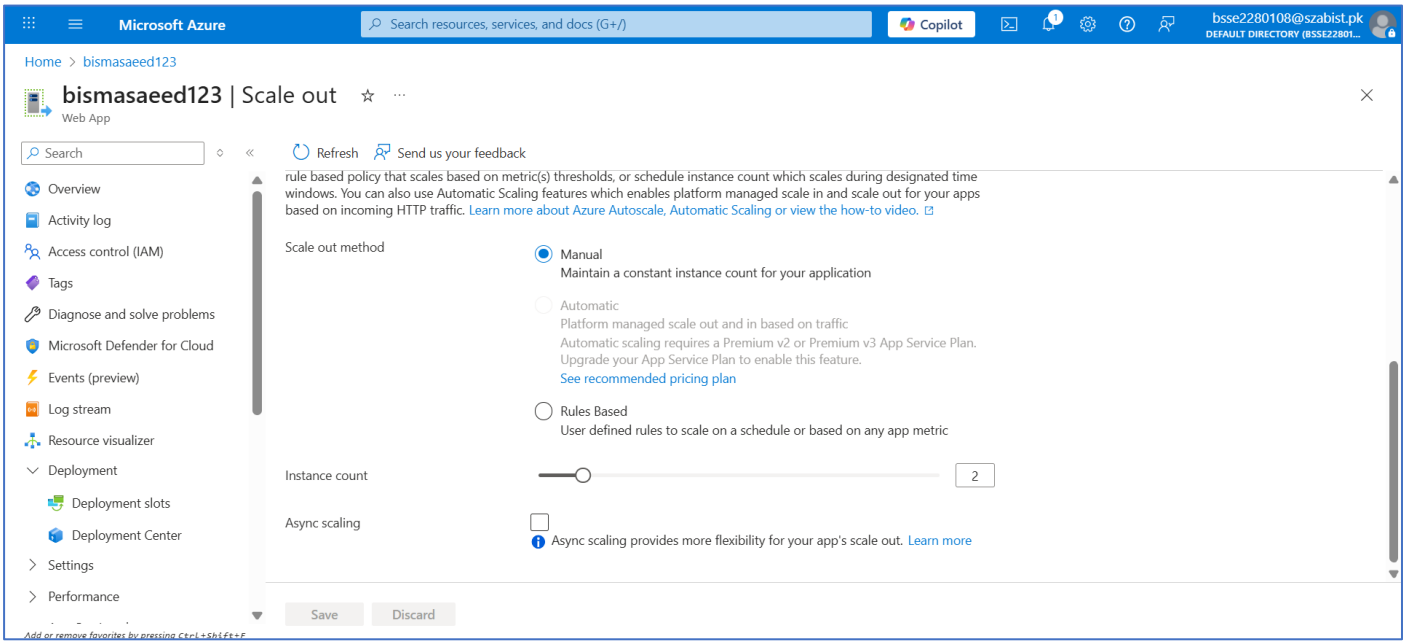
Same as I have done in task 2

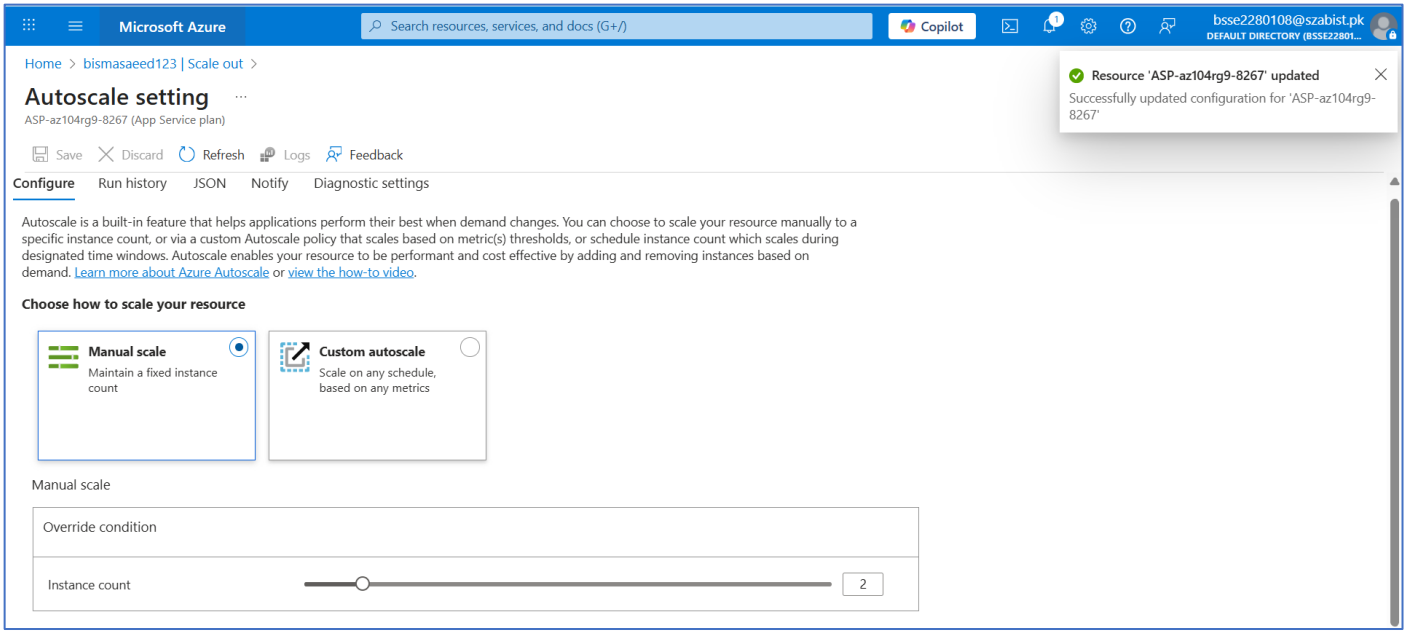
Task 4: Swap deployment slots

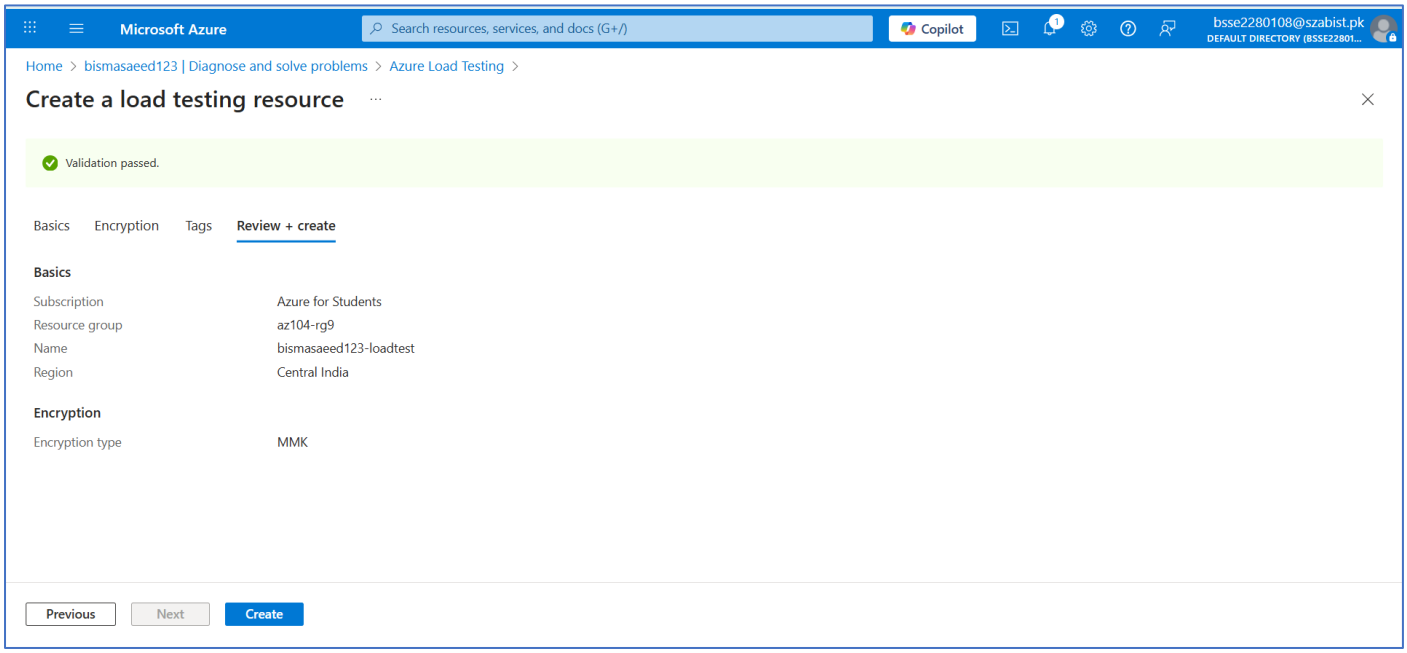


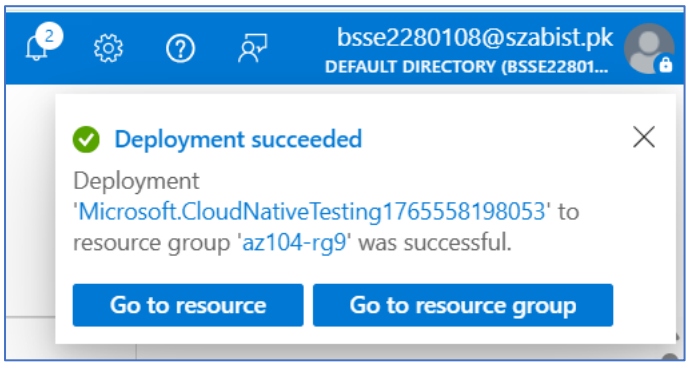


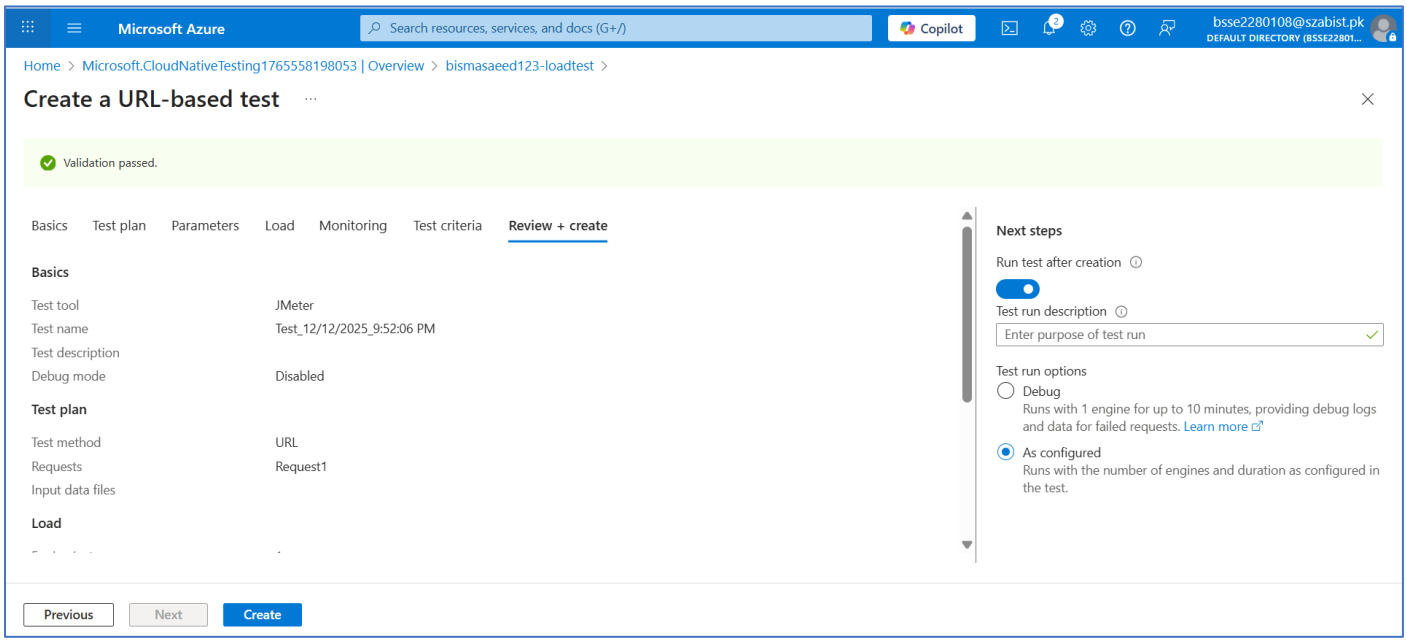
Task 5: Configure and test autoscaling of the Azure Web App

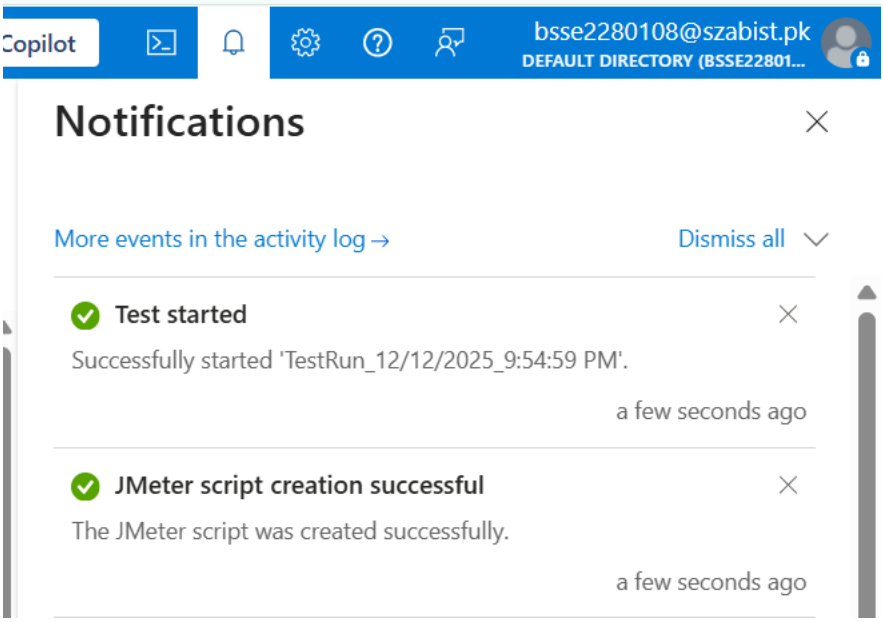


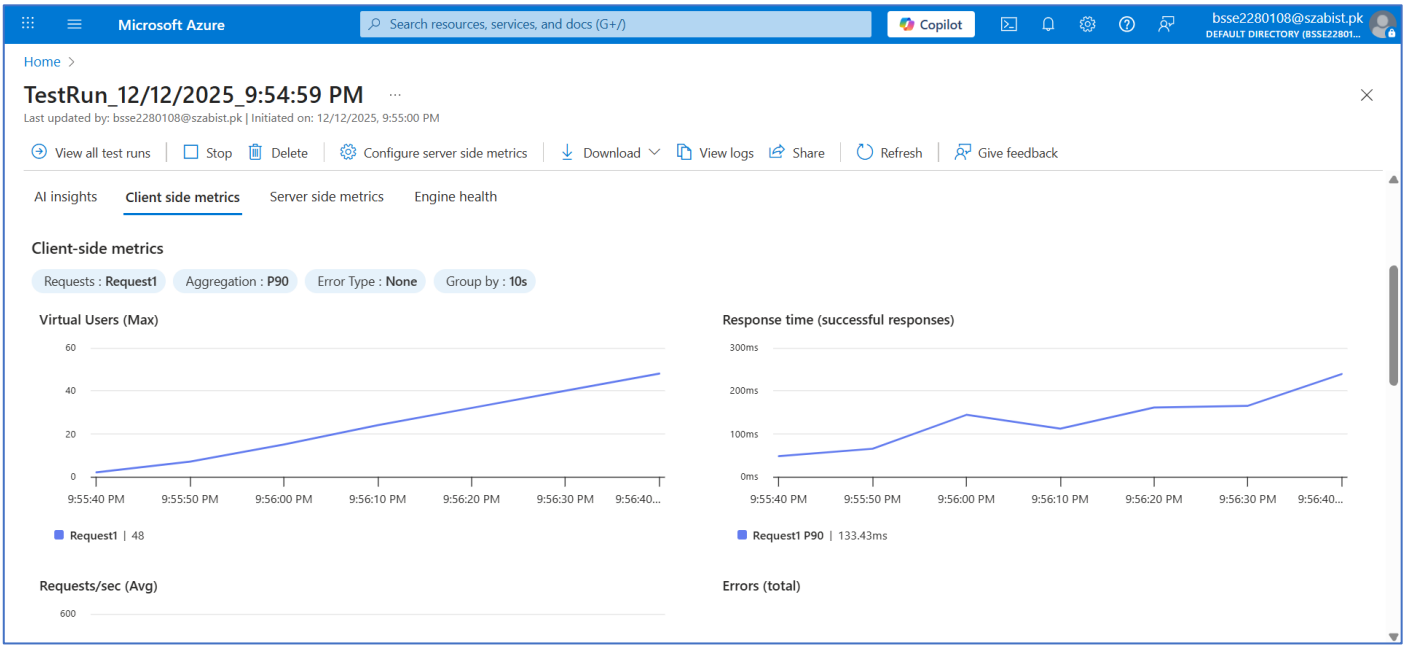

Microsoft Azure
Search resources, services, and docs (G+/)
Copilot
bsse2280108@szabist.pk
DEFAULT DIRECTORY (BSSE22801...
Home > bismasaeed123 | Scale out >
Autoscale setting
ASP-az104rg9-8267 (App Service plan)
Resource 'ASP-az104rg9-8267' updated
Successfully updated configuration for 'ASP-az104rg9-8267'
Save
Discard
Refresh
Logs
Feedback
Configure
Run history
JSON
Notify
Diagnostic settings
Autoscale is a built-in feature that helps applications perform their best when demand changes. You can choose to scale your resource manually to a specific instance count, or via a custom Autoscale policy that scales based on metric(s) thresholds, or schedule instance count which scales during designated time windows. Autoscale enables your resource to be performant and cost effective by adding and removing instances based on demand. Learn more about Azure Autoscale or view the how-to video.
Choose how to scale your resource
Manual scale
Maintain a fixed instance count
Custom autoscale
Scale on any schedule, based on any metrics
Manual scale
Override condition
Instance count
2


Microsoft Azure
Search resources, services, and docs (G+/)
Copilot
bsse2280108@szabist.pk
DEFAULT DIRECTORY (BSSE22801...
Home > bismasaeed123 | Diagnose and solve problems > Azure Load Testing >
Create a load testing resource
Validation passed.
Basics
Encryption
Tags
Review + create
Basics
Subscription
Azure for Students
Resource group
az104-rg9
Name
bismasaeed123-loadtest
Region
Central India
Encryption
Encryption type
MMK
Previous
Next
Create


bsse2280108@szabist.pk
DEFAULT DIRECTORY (BSSE22801...
Deployment succeeded
Deployment 'Microsoft.CloudNativeTesting1765558198053' to resource group 'az104-rg9' was successful.
Go to resource
Go to resource group


Microsoft Azure
Search resources, services, and docs (G+/)
Copilot
bsse2280108@szabist.pk
DEFAULT DIRECTORY (BSSE22801...
Home > Microsoft.CloudNativeTesting1765558198053 | Overview > bismasaeed123-loadtest >
Create a URL-based test
Validation passed.
Basics
Test plan
Parameters
Load
Monitoring
Test criteria
Review + create
Basics
Test tool JMeter
Test name Test_12/12/2025_9:52:06 PM
Test description
Debug mode Disabled
Test plan
Test method URL
Requests Request1
Input data files
Load
Next steps
Run test after creation
Test run description
Enter purpose of test run
Test run options
Debug
Runs with 1 engine for up to 10 minutes, providing debug logs and data for failed requests. Learn more
As configured
Runs with the number of engines and duration as configured in the test.
Previous
Next
Create


Copilot
bsse2280108@szabist.pk
DEFAULT DIRECTORY (BSSE22801...
Notifications
More events in the activity log →
Dismiss all
Test started
Successfully started 'TestRun_12/12/2025_9:54:59 PM'.
a few seconds ago
JMeter script creation successful
The JMeter script was created successfully.
a few seconds ago


Microsoft Azure
Search resources, services, and docs (G+/)
Copilot
bsse2280108@szabist.pk
DEFAULT DIRECTORY (BSSE22801...
Home >
TestRun_12/12/2025_9:54:59 PM
Last updated by: bsse2280108@szabist.pk | Initiated on: 12/12/2025, 9:55:00 PM
View all test runs
Stop
Delete
Configure server side metrics
Download
View logs
Share
Refresh
Give feedback
AI insights
Client side metrics
Server side metrics
Engine health
Client-side metrics
Requests : Request1
Aggregation : P90
Error Type : None
Group by : 10s
Virtual Users (Max)
60
40
20
0
9:55:40 PM
9:55:50 PM
9:56:00 PM
9:56:10 PM
9:56:20 PM
9:56:30 PM
9:56:40...
Request1 | 48
Response time (successful responses)
300ms
200ms
100ms
0ms
9:55:40 PM
9:55:50 PM
9:56:00 PM
9:56:10 PM
9:56:20 PM
9:56:30 PM
9:56:40...
Request1 P90 | 133.43ms
Requests/sec (Avg)
600
Errors (total)

Key takeaways

Congratulations on completing the lab. Here are the main takeaways for this lab.

+ Azure App Services lets you quickly build, deploy, and scale web apps.
+ App Service includes support for many developer environments including ASP.NET, Java, PHP, and Python.
+ Deployment slots allow you to create separate environments for deploying and testing your web app.
+ You can manually or automatically scale a web app to handle additional demand.
+ A wide variety of diagnostics and testing tools are available.