
Cloud & Virtualization Class

Lab 5 · Azure Web App, Azure Function App, and Azure Logic App

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Contents

1	Introduction	3
1.1	Lab Objectives	3
2	Lab Walkthrough	4
2.1	Task 1 · Azure Web App	4
2.1.1	Create an Azure web app	4
2.1.2	Create Staging deployment Slot	5
2.1.3	Configure Web App Deployment Settings	7
2.1.4	Deploy Code to the Staging deployment slot	8
2.1.5	Swap Staging slots	11
2.1.6	Configure and test autoscaling	14
2.1.7	Delete Resource Group	17
2.2	Task 2 · Azure Function app and Logic apps	17
2.2.1	Create an Azure Function app	18
2.2.2	Create a function with HTTP trigger	19
2.2.3	Create a Logic App	21
2.2.4	Clean up resources	23

1 Introduction

In this lab, we will learn how to deploy and manage Azure Web Apps, Azure Function Apps, and Azure Logic Apps. We will also learn how to configure autoscaling for Azure Web Apps and Azure Function Apps.

1.1 Lab Objectives

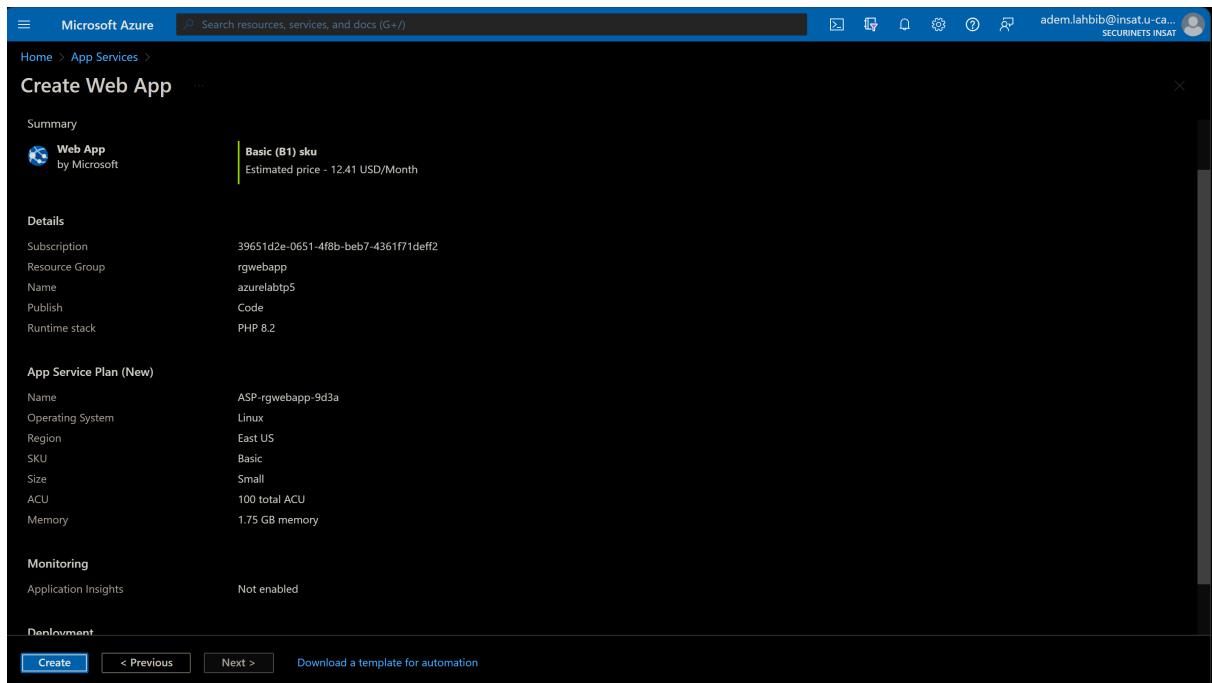
- Create and manage Azure Web Apps
- Create and manage Azure Function Apps
- Create and manage Azure Logic Apps
- Configure autoscaling for Azure Web Apps and Azure Function Apps
- Configure Azure Web Apps deployment slots
- Configure Azure Web Apps deployment settings
- Configure Azure Web Apps staging slots
- Configure Azure Web Apps autoscaling

2 Lab Walkthrough

2.1 Task 1 · Azure Web App

Azure web app is a service that enables you to build and host web apps, mobile back ends, and RESTful APIs in the programming language of your choice without managing infrastructure. It offers auto-scaling and high availability, supports both Windows and Linux, and enables automated deployments from GitHub, Azure DevOps, or any Git repo.

2.1.1 Create an Azure web app



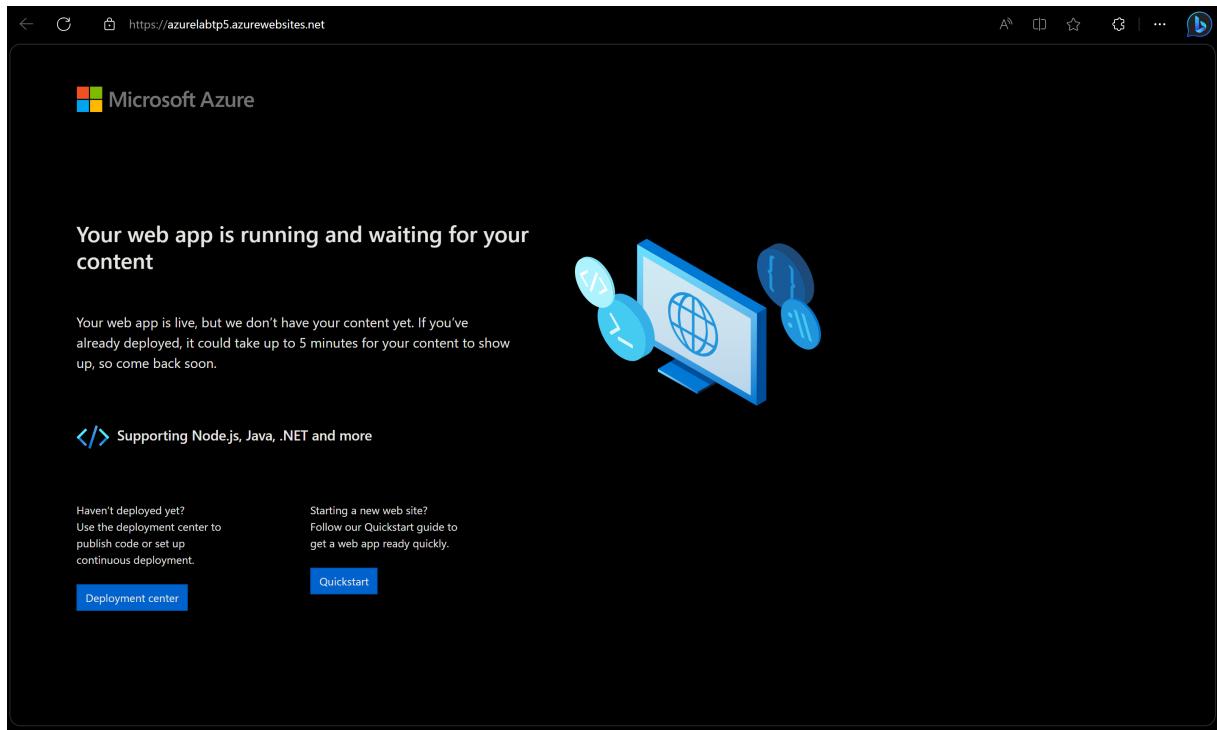
The screenshot shows the Microsoft Azure portal interface for creating a new web app. The top navigation bar includes 'Microsoft Azure', a search bar, and user information. Below the navigation is a breadcrumb trail: 'Home > App Services > Create Web App'. The main content area is titled 'Create Web App' with a sub-section 'Summary'. On the left, there's a sidebar with a 'Web App by Microsoft' icon. The summary section shows a 'Basic (B1) sku' selected, with a note: 'Estimated price - 12.41 USD/Month'. The 'Details' section lists the following configuration:

Setting	Value
Subscription	39651d2e-0651-4f8b-beb7-4361f71deff2
Resource Group	rgwebapp
Name	azurelabtp5
Publish	Code
Runtime stack	PHP 8.2

The 'App Service Plan (New)' section provides details for the new plan:

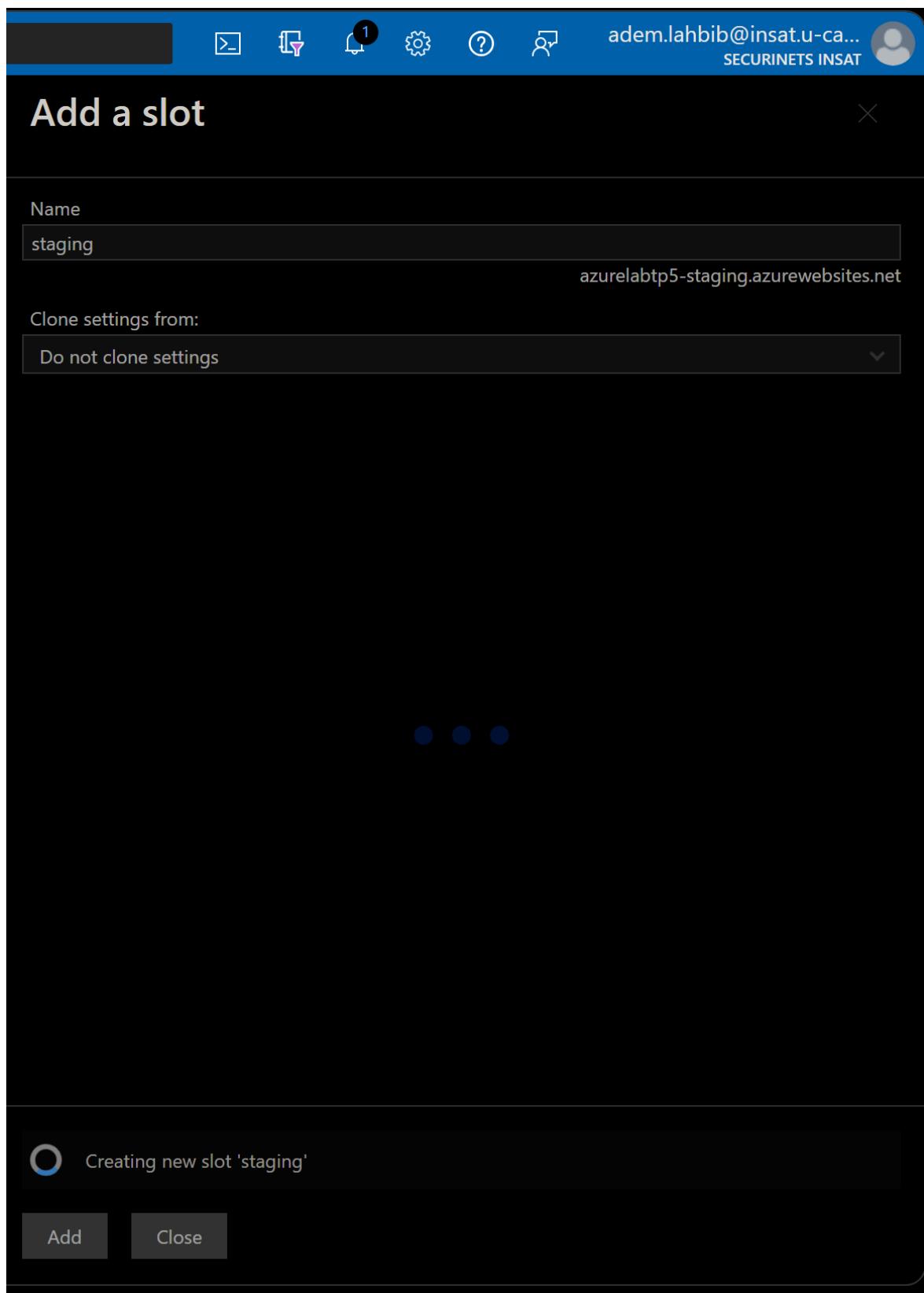
Setting	Value
Name	ASP-rgwebapp-9d3a
Operating System	Linux
Region	East US
SKU	Basic
Size	Small
ACU	100 total ACU
Memory	1.75 GB memory

The 'Monitoring' section indicates 'Application Insights' is 'Not enabled'. At the bottom, there are buttons for 'Create' (highlighted in blue), '< Previous', 'Next >', and 'Download a template for automation'.



2.1.2 Create Staging deployment Slot

Staging deployment slots are incredibly useful when you need to validate app changes against a real payload of data before swapping them to the production environment. You can deploy to a staging slot, then swap to production. This allows you to validate changes in your app before your customers see them.



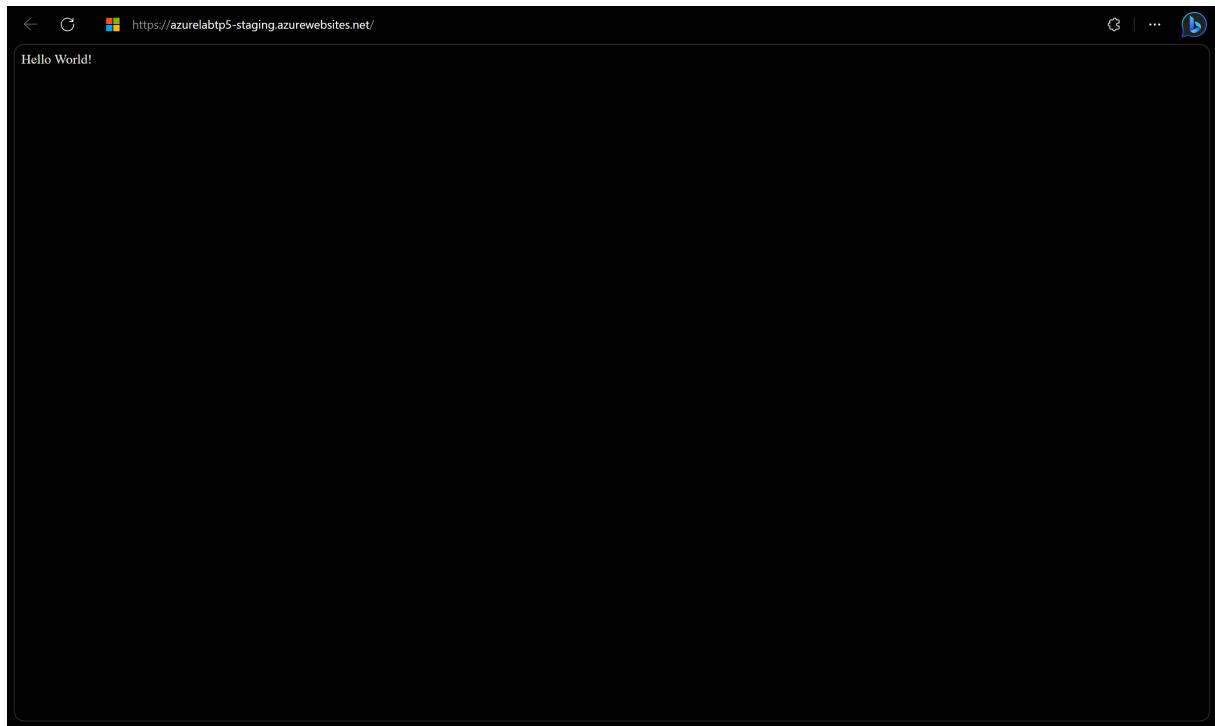
2.1.3 Configure Web App Deployment Settings

<https://azurelabtp5-staging.scm.azurewebsites.net:443/azurelabtp5.git>

2.1.4 Deploy Code to the Staging deployment slot

```
PS /home/adem_lahbib/php-docs-hello-world> git remote add admoun https://azurelabtp5-staging.scm.azurewebsites.net:443/azurelabtp5.git
PS /home/adem_lahbib/php-docs-hello-world> git push admoun master
Username for "https://azurelabtp5-staging.scm.azurewebsites.net:443": admoun
Password for "https://admoun@azurelabtp5-staging.scm.azurewebsites.net:443":
Enumerating objects: 26, done.
Counting objects: 100% (26/26), done.
Delta compression using up to 2 threads
Compressing objects: 100% (17/17), done.
Writing objects: 100% (26/26), 5.64 KiB | 5.64 MiB/s, done.
Total 26 (delta 6), reused 26 (delta 6), pack-reused 0
remote: Deploy Async
remote: Updating branch 'master'.
remote: Updating submodules.
remote: Preparing deployment for commit id 'df425ea6ef'.
remote: PreDeployment: context.CleanOutputPath False
remote: PreDeployment: context.OutputPath /home/site/wwwroot
remote: Repository path is /home/site/repository
remote: Running oryx build...
remote: Operation performed by Microsoft Oryx, https://github.com/Microsoft/Oryx
remote: You can report issues at https://github.com/Microsoft/Oryx/issues
remote:
remote: Oryx Version: 0.2.20230210.1, Commit: a49c8f6b8abbe95b4356552c4c884dea7fd0d86e, ReleaseTagName: 20230210.1
remote:
remote: Build Operation ID: c3ca455581c67e46
remote: Repository Commit : df425ea6ef61f981c71537ec89d1d821a2de975c
remote: OS Type       : bullseye
remote: Image Type    : githubactions
remote:
remote: Detecting platforms...
remote: Detected following platforms:
remote:   php: 8.2.5
```

```
remote:
remote: PHP executable: /tmp/oryx/platforms/php/8.2.5/bin/php
remote: No 'composer.json' file found; not running 'composer install'.
remote: Preparing output...
remote:
remote: Copying files to destination directory '/home/site/wwwroot'...
remote: Done in 0 sec(s).
remote:
remote: Removing existing manifest file
remote: Creating a manifest file...
remote: Manifest file created.
remote: Copying .ostype to manifest output directory.
remote:
remote: Done in 4 sec(s).
remote: Running post deployment command(s)...
remote:
remote: Generating summary of Oryx build
remote: Parsing the build logs
remote: Found 0 issue(s)
remote:
remote: Build Summary :
remote: =====
remote: Errors (0)
remote: Warnings (0)
remote:
remote: Triggering recycle (preview mode disabled).
remote: Deployment successful. deployer = deploymentPath =
remote: Deployment Logs : 'https://azurelabtp5-staging.scm.azurewebsites.net/newui/jsonviewer?view_url=/api/deployments/df425ea6ef61f981c71537ec89d1d821a2de975c/log
To https://azurelabtp5-staging.scm.azurewebsites.net:443/azurelabtp5.git
 * [new branch]      master -> master
PS /home/adem_lahbib/php-docs-hello-world> █
```

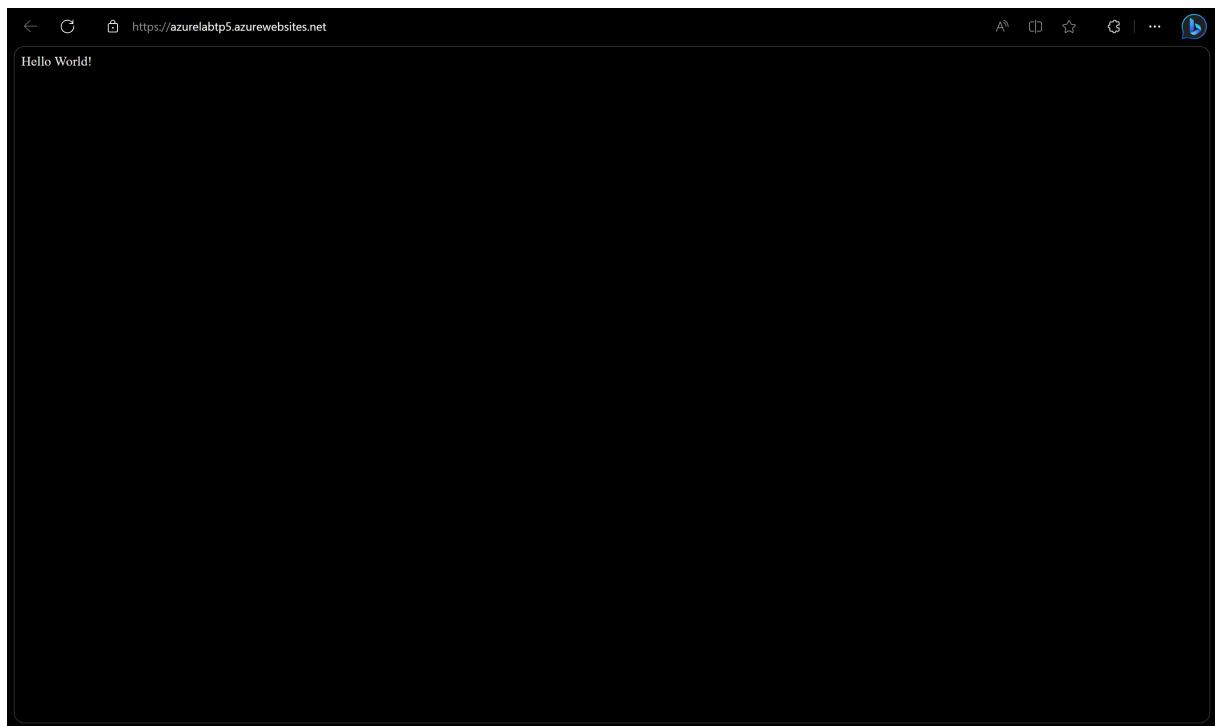


2.1.5 Swap Staging slots

The screenshot shows the 'Swap' dialog box in the Azure portal. At the top, there are icons for back, forward, refresh, settings, help, and search, followed by the user email 'adem.lahbib@insat.u-ca...' and the 'SECURINETS INSAT' logo. The main title is 'Swap'. Below it, there are two dropdown menus: 'Source' set to 'azurelabtp5-staging' and 'Target' set to 'PRODUCTION' (highlighted in green) with 'azurelabtp5' selected. A note says 'Swap with preview can only be used with sites that have deployment slot settings enabled'. There is also an unchecked checkbox for 'Perform swap with preview'. A 'Config Changes' section follows, stating 'This is a summary of the final set of configuration changes on the source and target deployment slots after the swap has completed.' It shows a table with 'Source Changes' and 'Target Changes' sections, both indicating 'No Changes'. At the bottom are 'Swap' and 'Close' buttons.

Source Changes		Target Changes	
SETTING	TYPE	OLD VALUE	NEW VALUE
No Changes			

Swap **Close**



2.1.6 Configure and test autoscaling

The screenshot shows the 'Scale rule' configuration page in the Azure portal. At the top, there are navigation icons and a user profile for 'adem.lahbib@insat.u-ca... SECURINETS INSAT'. The main title is 'Scale rule'. Below it, the 'Metric source' is set to 'Current resource (ASP-rgwebapp-9d3a)'. The 'Resource type' is 'App Service plans' and the 'Resource' is 'ASP-rgwebapp-9d3a'. A checkbox for 'Criteria' is checked. Under 'Criteria', the 'Metric namespace *' is 'Standard metrics' and the 'Metric name' is 'CPU Percentage'. The 'Dimension Name' is 'Instance', the 'Operator' is '=', and the 'Dimension Values' is 'All values'. A note says: 'If you select multiple values for a dimension, autoscale will aggregate the metric across the selected values, not evaluate the metric for each values individually.' Below this is a chart showing CPU percentage over time, with a maximum value of 28%. There is a checkbox for 'Enable metric divide by instance count'. At the bottom, the 'Operator *' is 'Greater than' and the 'Metric threshold to trigger scale action *' is '10 %'. A large blue 'Add' button is at the bottom left.

Metric source

Current resource (ASP-rgwebapp-9d3a)

Resource type

Resource

App Service plans

ASP-rgwebapp-9d3a

Criteria

Metric namespace *

Standard metrics

Metric name

CPU Percentage

1 minute time grain

Dimension Name

Operator

Dimension Values

Add

Instance

=

All values

If you select multiple values for a dimension, autoscale will aggregate the metric across the selected values, not evaluate the metric for each values individually.

30%

25%

20%

15%

10%

8:46 PM

15

30

45

UTC+01:00

CpuPercentage (Maximum)

28 %

Enable metric divide by instance count (i)

Operator *

Greater than

Metric threshold to trigger scale action * (i)

10 %

Add

Scale rule

CpuPercentage (Maximum)

28 %

Enable metric divide by instance count (i)

Operator * Metric threshold to trigger scale action * (i)

Greater than 10 %

Duration (minutes) * (i) Time grain (minutes) (i)

1 1

⚠ Setting a duration less than 5 minutes may generate transient metric spikes that leads to unexpected scaling actions. For best results, the duration should be set at least to 5 minutes.

Time grain statistic * (i) Time aggregation * (i)

Maximum Maximum

Action

Operation * Cool down (minutes) * (i)

Increase count by 5

instance count *

1

Add

Default* Auto created default scale condition

Delete warning: The very last or default recurrence rule cannot be deleted. Instead, you can disable autoscale to turn off autoscale.

Scale mode: Scale based on a metric (selected)

Rules: It is recommended to have at least one scale in rule. To create new rules, click Add a rule.

Scale out: When ASP-rgwebapp-9d3a (Maximum) CpuPercentage > 10 Increase count by 1

Instance limits: Minimum * 1, Maximum * 3, Default * 1

Schedule: This scale condition is executed when none of the other scale condition(s) match

+ Add a rule

+ Add a scale condition

PowerShell | Succeeded. Connecting terminal...

```
MOTD: Azure Cloud Shell now includes Predictive IntelliSense! Learn more: https://aka.ms/CloudShell/IntelliSense

VERBOSE: Authenticating to Azure ...
VERBOSE: Building your Azure drive ...
PS /home/adem_lahbib> $rgName = 'rgwebapp'
PS /home/adem_lahbib> $webapp = Get-AzWebApp -ResourceGroupName $rgName
PS /home/adem_lahbib> while ($true) { Invoke-WebRequest -Uri $webapp.DefaultHostName }

StatusCode : 200
StatusCode : 200
StatusDescription : OKlo World!
Content : Hello World! OK
RawContent : HTTP/1.1 200 Okay 2023 19:50:32 GMT
Date: Sun, 07 May 2023 19:50:34 GMT
Server: nginx/1.22.1hunked
Transfer-Encoding: chunked
X-Powered-By: PHP/8.2.5; charset=utf-8
Content-Type: text/html; charset=utf-8
Hello World!
Hello World!em.String[], [Server, System.String[], [Transfer-Encoding, System.String[], [X-Powered-By, System.String[]..]
Headers : {[Date, System.String[], [Server, System.String[], [Transfer-Encoding, System.String[], [X-Powered-By, System.String[]..]
Images : {}
InputFields : {}
Links : {}
RawContentLength : 12
RelationLink : {}
```

2.1.7 Delete Resource Group

Id	Name	PSJobTypeName	State	HasMoreData	Location	Command
2	Long Running O...	AzureLongRunni...	Running	True	localhost	Remove-AzResourceGroup

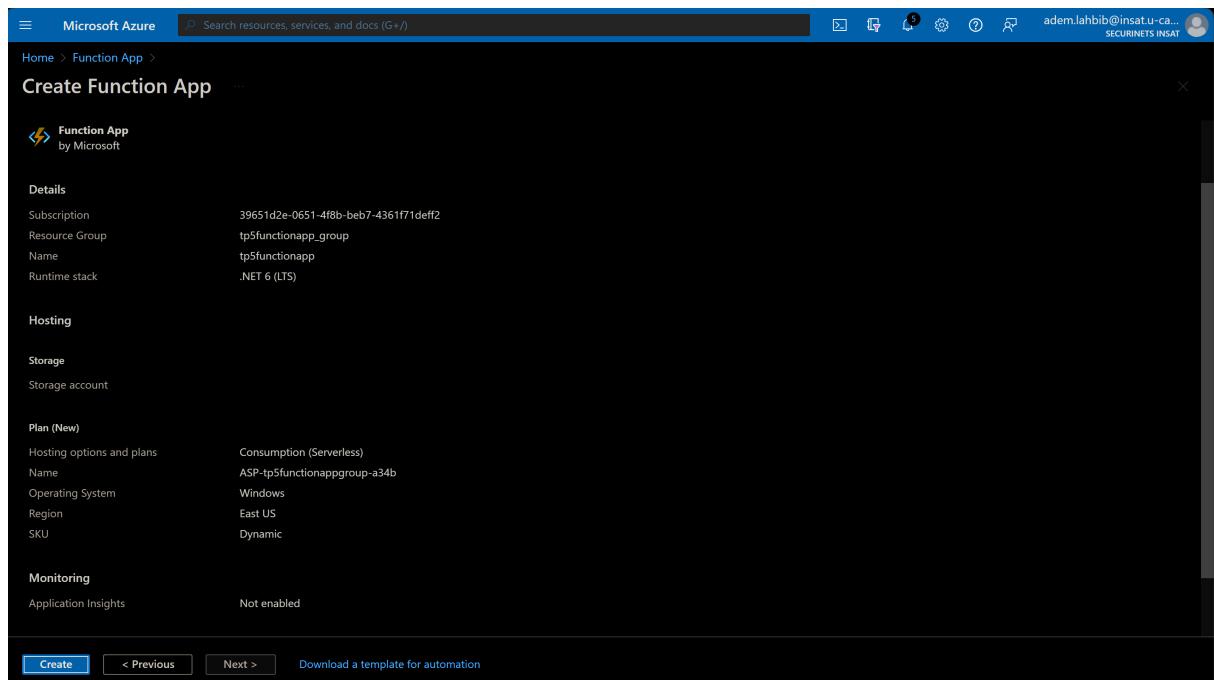
2.2 Task 2 · Azure Function app and Logic apps

Azure Function is a serverless compute service that enables you to run code on-demand without having to explicitly provision or manage infrastructure. Use Azure Functions to run a script or piece of code in response to a variety of events. It is a perfect solution for processing data, integrating systems, working

with the internet-of-things (IoT), and building simple APIs and microservices.

Logic App is a serverless solution that allows developers to create workflows and integrate systems and data across clouds without writing code. It provides a visual designer to model and automate your process as a series of steps known as a workflow. There are many connectors across cloud and on-premises services that make it easy to integrate Logic Apps into your business processes.

2.2.1 Create an Azure Function app



The screenshot shows the 'Create Function App' wizard in the Microsoft Azure portal. The page is titled 'Create Function App' and includes a 'Function App by Microsoft' logo. The configuration is divided into several sections:

- Details:** Subscription: 39651d2e-0651-4f8b-beb7-4361f71deff2; Resource Group: tp5functionapp_group; Name: tp5functionapp; Runtime stack: .NET 6 (LTS).
- Hosting:** Storage account: (not specified).
- Plan (New):** Hosting options and plans: Consumption (Serverless); Name: ASP-tp5functionappgroup-a34b; Operating System: Windows; Region: East US; SKU: Dynamic.
- Monitoring:** Application Insights: Not enabled.

At the bottom, there are buttons for 'Create' (highlighted in blue), '< Previous', 'Next >', and 'Download a template for automation'.

2.2.2 Create a function with HTTP trigger

The screenshot shows the 'Create function' dialog in the Azure portal. At the top, there's a header bar with icons for search, refresh, notifications (6), settings, help, and user profile (adem.lahbib@insat.u-ca... SECURINETs INSAT). Below the header, the title 'Create function' is displayed.

Select development environment
Instructions will vary based on your development environment. [Learn more](#)

Development environ... 🌐 Develop in portal

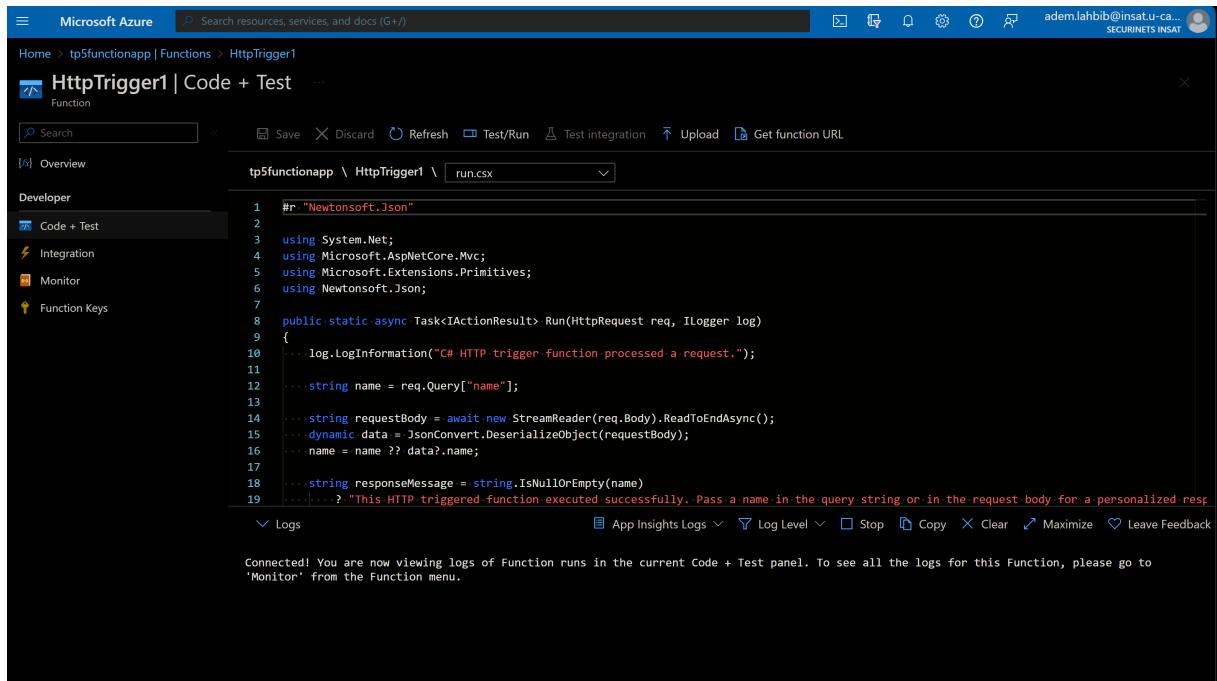
Select a template
Use a template to create a function. Triggers describe the type of events that invoke your functions. [Learn more](#)

Filter

Template	Description
HTTP trigger	A function that will be run whenever it receives an HTTP request, responding based on data in the body or query string
Timer trigger	A function that will be run on a specified schedule
Azure Queue Storage trigger	A function that will be run whenever a message is added to a specified Azure Storage queue
Azure Service Bus Queue trigger	A function that will be run whenever a message is added to a specified Service Bus queue
Azure Service Bus Topic trigger	A function that will be run whenever a message is added to the specified Service Bus topic
Azure Blob Storage trigger	A function that will be run whenever a blob is added to a specified container
Azure Event Hub trigger	A function that will be run whenever an event hub receives a new event

Template details
We need more information to create the HTTP trigger function. [Learn more](#)

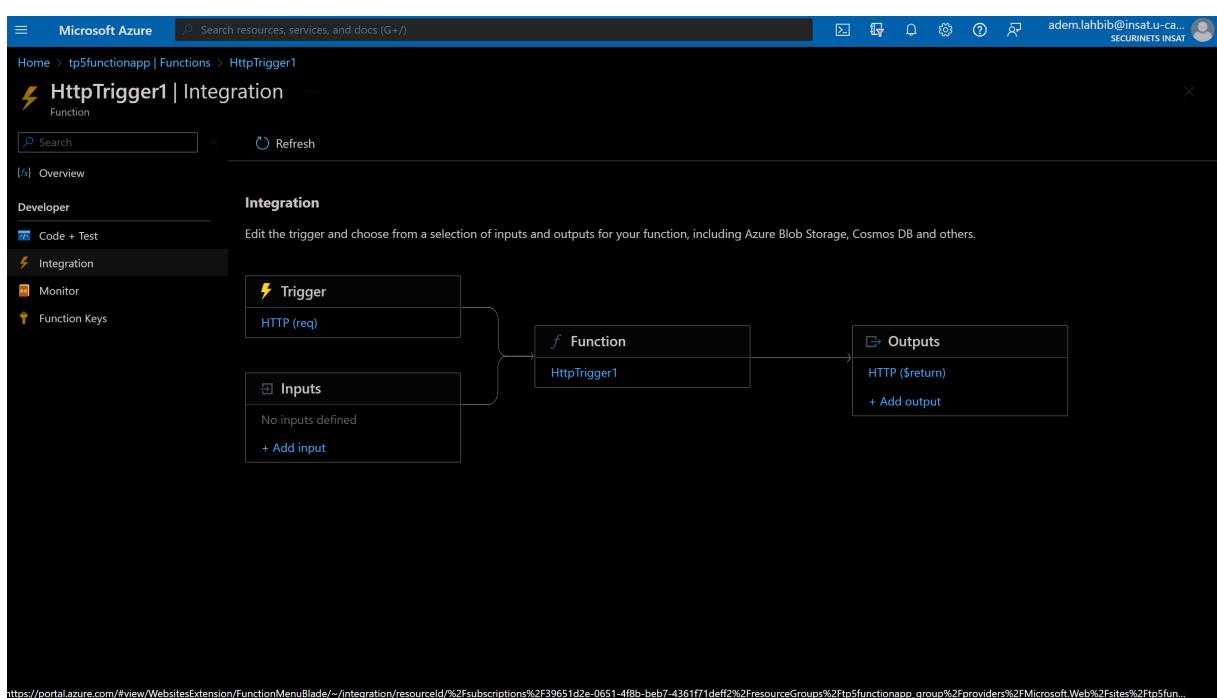
[Create](#) [Cancel](#)



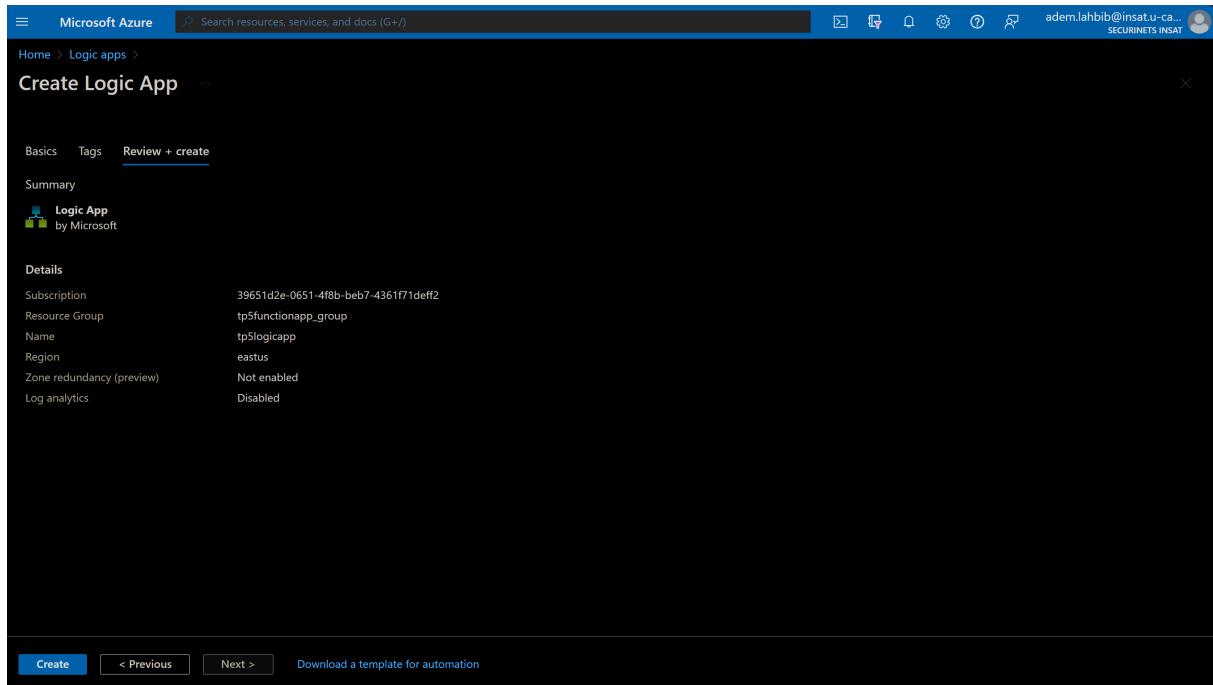
```

1  #> "Newtonsoft.Json"
2
3  using System.Net;
4  using Microsoft.AspNetCore.Mvc;
5  using Microsoft.Extensions.Primitives;
6  using Newtonsoft.Json;
7
8  public static async Task<IActionResult> Run(HttpContext req, ILogger log)
9  {
10    log.LogInformation("C# HTTP trigger function processed a request.");
11
12    string name = req.Query["name"];
13
14    string requestBody = await new StreamReader(req.Body).ReadToEndAsync();
15    dynamic data = JsonConvert.DeserializeObject(requestBody);
16    name = name ?? data?.name;
17
18    string responseMessage = string.IsNullOrEmpty(name)
19    ? "This HTTP triggered function executed successfully. Pass a name in the query string or in the request body for a personalized response."
      
```

Connected! You are now viewing logs of Function runs in the current Code + Test panel. To see all the logs for this Function, please go to 'Monitor' from the Function menu.



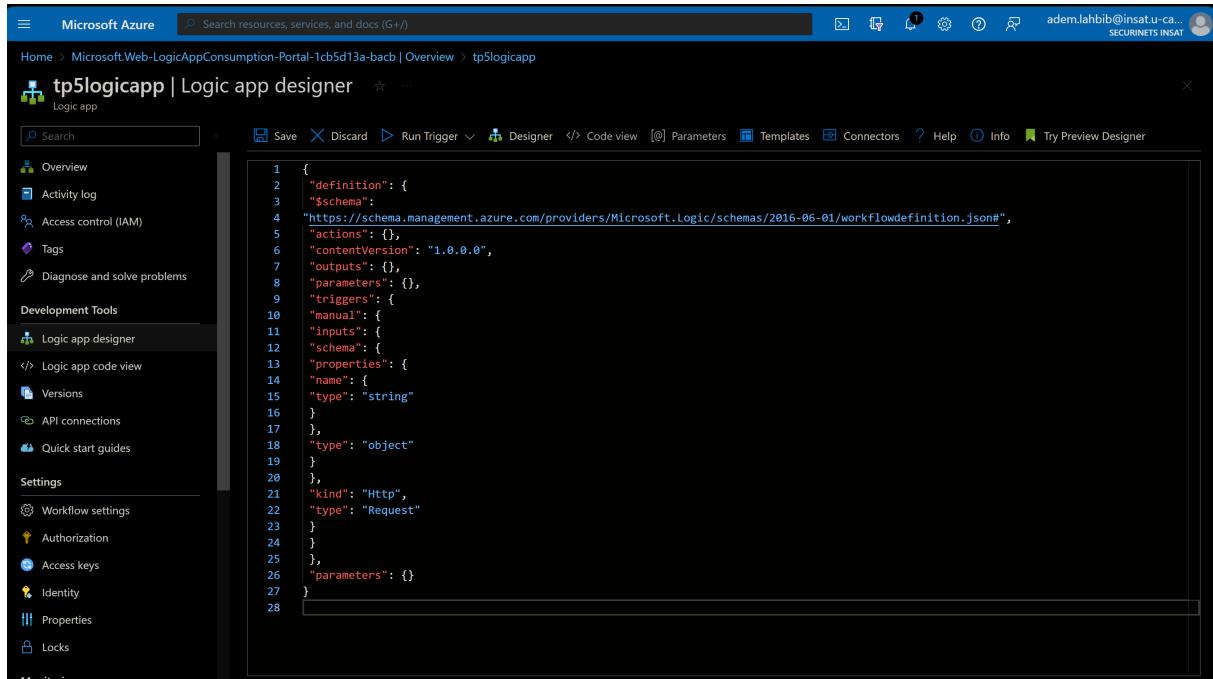
2.2.3 Create a Logic App



The screenshot shows the 'Create Logic App' wizard in the Microsoft Azure portal. The current step is 'Review + create'. The 'Details' section shows the following configuration:

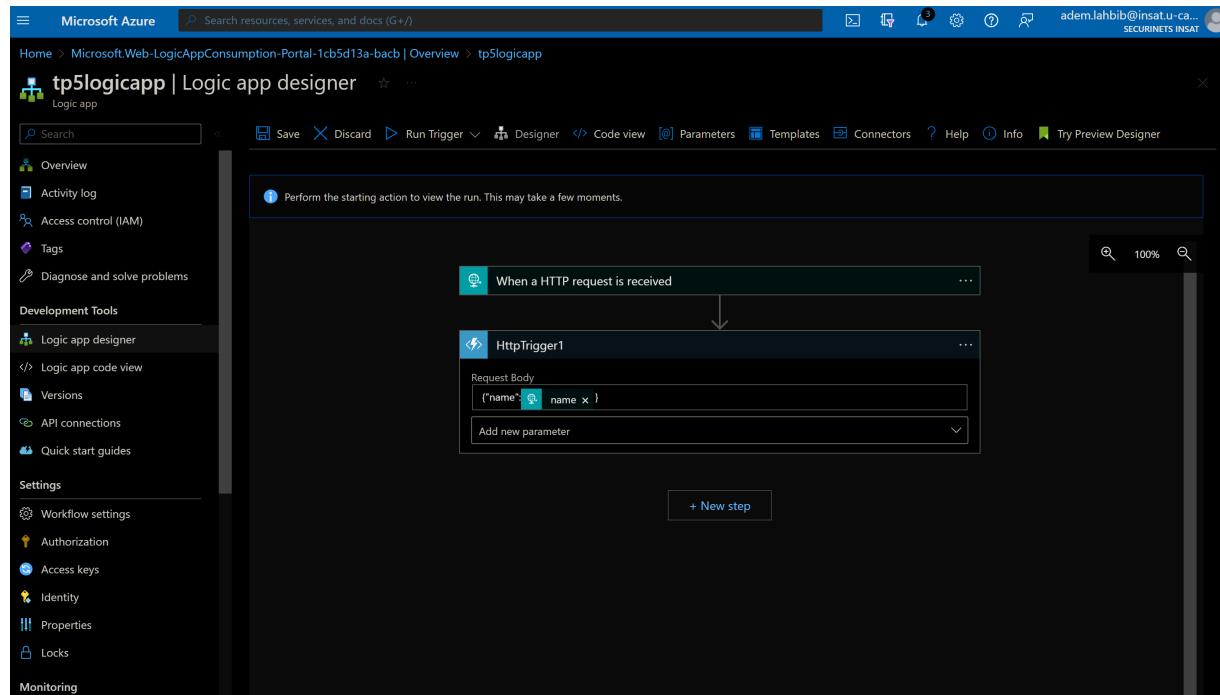
Setting	Value
Subscription	39651d2e-0651-4f8b-beb7-4361f71def2
Resource Group	tp5functionapp_group
Name	tp5logicapp
Region	eastus
Zone redundancy (preview)	Not enabled
Log analytics	Disabled

At the bottom, there are buttons for 'Create', '< Previous', 'Next >', and 'Download a template for automation'.

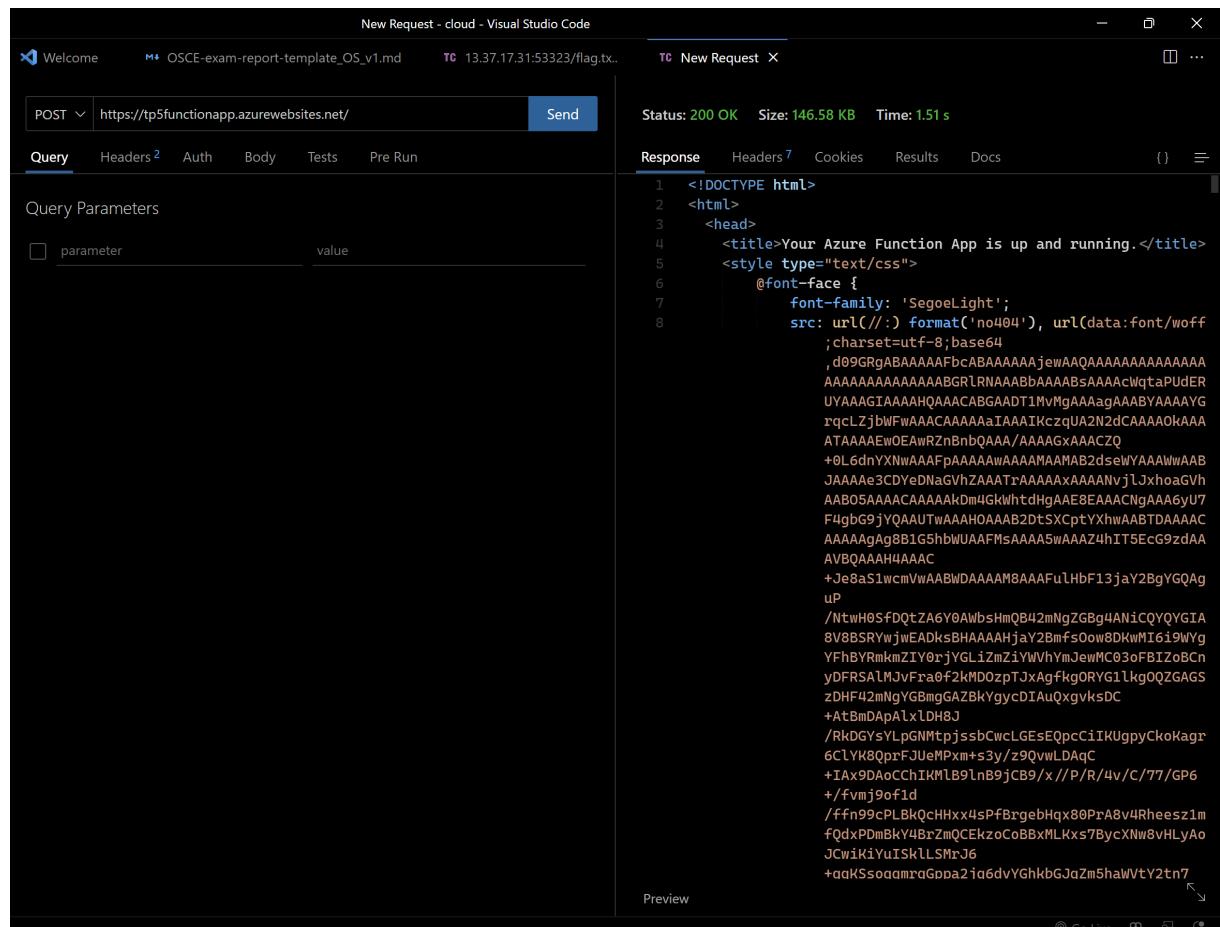


The screenshot shows the 'Logic app designer' interface for the 'tp5logicapp' logic app. The left sidebar lists various management tools like Overview, Activity log, and Development Tools (Logic app designer is selected). The main area displays the workflow definition code:

```
1 {
2   "definition": {
3     "$schema": "https://schema.management.azure.com/providers/Microsoft.Logic/schemas/2016-06-01/workflowdefinition.json#",
4     "actions": {},
5     "contentVersion": "1.0.0.0",
6     "outputs": {},
7     "parameters": {},
8     "triggers": {
9       "manual": {
10         "inputs": {
11           "schema": {
12             "properties": {
13               "name": {
14                 "type": "string"
15               }
16             }
17           },
18           "type": "object"
19         }
20       },
21       "kind": "Http",
22       "type": "Request",
23     }
24   },
25 },
26 "parameters": {}
27 }
```



The screenshot shows the Microsoft Azure Logic App designer interface. On the left, a sidebar lists various options like Overview, Activity log, Access control (IAM), Tags, Diagnose and solve problems, Development Tools (Logic app designer selected), Versions, API connections, Quick start guides, Settings (Workflow settings, Authorization, Access keys, Identity, Properties, Locks), and Monitoring. The main workspace displays a logic app step: "When a HTTP request is received" followed by "HttpTrigger1". The "HttpTrigger1" step has a "Request Body" parameter with the value "{name}" and a "name" placeholder. A "Add new parameter" button is also visible. A "New step" button is located at the bottom right of the workspace.



The screenshot shows a "New Request - cloud - Visual Studio Code" window. The URL is "https://tp5functionapp.azurewebsites.net/" and the method is "POST". The response status is "200 OK", size is "146.58 KB", and time is "1.51 s". The response body contains the following HTML code:

```

<!DOCTYPE html>
<html>
<head>
<title>Your Azure Function App is up and running.</title>
<style type="text/css">
@font-face {
    font-family: 'SegoeLight';
    src: url(//) format('no404'), url(data:font/woff
    ;charset=utf-8;base64
    ,d09RgRgABAAAAAFbcABA
    AAAA
    jewAAQAAAAAAA
    wQgtapUdER
    UYAAAGIAAAAHQ
    AACABGAADT1MvMgAA
    AgAA
    BYAAA
    YG
    r
    cLZj
    bW
    F
    WAAA
    CAAAA
    A
    IAA
    1Kc
    zq
    uA
    2n
    dC
    AAA
    AOK
    AAA
    AT
    AAAAEwOE
    wRZnBnbQ
    AAAA
    AAC
    xAA
    CzQ
    +O
    6dnYX
    Nw
    AAA
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    AAA
    AA
    MAM
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    F
    R
    S
    A
    L
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    k
    M
    D
    O
    z
    p
    T
    J
    x
    A
    g
    f
    q
    k
    o
    R
    Y
    G
    1
    k
    g
    Q
    0
    Z
    G
    A
    G
    z
    D
    H
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```

The "Preview" tab at the bottom of the VS Code window shows the raw JSON response from the Azure Function.

The screenshot shows the Microsoft Azure Logic App Designer interface. On the left, there's a sidebar with options like Overview, Activity log, Access control (IAM), Tags, Diagnose and solve problems, Development Tools (Logic app designer selected), Versions, API connections, Quick start guides, Settings, Workflow settings, Authorization, Access keys, Identity, Properties, and Locks. The main area displays an 'HttpTrigger1' function. The 'INPUTS' tab shows a 'Function name' of 'tp5functionapp/HttpTrigger1' and a 'Body' JSON object with a single field 'name' set to 'null'. The 'OUTPUTS' tab shows a 'Status code' of '200' and a 'Headers' section with 'Transfer-Encoding' as 'chunked' and 'Accept-Encoding' as 'gzip'. A message in the body says, 'This HTTP triggered function executed successfully. Pass a name in ...'.

Ok, I didn't sent name so it is NULL :)

2.2.4 Clean up resources

The screenshot shows the Microsoft Azure Resource Group overview page for 'tp5functionapp_group'. The sidebar includes sections for Overview, Activity log, Access control (IAM), Tags, Resource visualizer, Events, Deployments, Security, Policies, Properties, Locks, Cost analysis, Cost alerts (preview), Budgets, Advisor recommendations, and Insights (preview). The main area shows the 'Essentials' tab with information about the subscription (move to: n0s), subscription ID (39651d2e-0651-4f8b-beb7-436f71deff2), and tags (Click here to add tags). A large warning dialog box asks if the user is sure they want to delete the resource group, stating that the action is irreversible and cannot be undone. It also lists 'Affected Resources' which include Application Insights Smart Detection, ASP-tp5functionappgroup-a34b, Failure Anomalies - tp5functionapp, tp5functionapp, tp5functionapp, tpfunctionappgroup8a1a, and tp5logicapp. At the bottom, there are 'Delete' and 'Cancel' buttons.