

untitled Practical Task 3- Configuring an Azure Load Balancer.java X Here's a step-by-step guide to creating and deploy untitle План демонстрації та тези реалізації фінального X

1 Practical Task 6: Creating and Deploying an Azure Function to Process HTTP Requests

2 Set up and deploy an Azure Function that processes HTTP requests directly from the Azure portal.

3

4 Requirements:

5

6 1. Set Up the Function App:

7 o Access the Azure portal and navigate to Azure Functions.

8 o Create a new Function App using the Consumption (Serverless) plan within the free

9 tier.

10

11 2. Create a Function:

12 o Select the HTTP trigger template.

13 o Choose a language of your choice (e.g., C#, JavaScript, or Python).

14

15 3. Customize the Function:

16 o Modify the default code to return the following response:

17 Hello, [name]! Welcome to Azure Functions.

18 o If no name parameter is provided in the query string or request body, the response

19 should be:

20 Hello! Please provide your name.

21

22 4. Test the Function:

23 o Use the Test/Run feature in the Azure portal to send HTTP requests.

24 o Verify the Function responds appropriately with and without the name parameter.

25

26 5. Verify External Access:

27 o Retrieve the public URL of the Azure Function.

28 o Test the Function using a browser or a tool like Postman to ensure it's externally

29 accessible.

30

31 6. Monitor and Inspect:

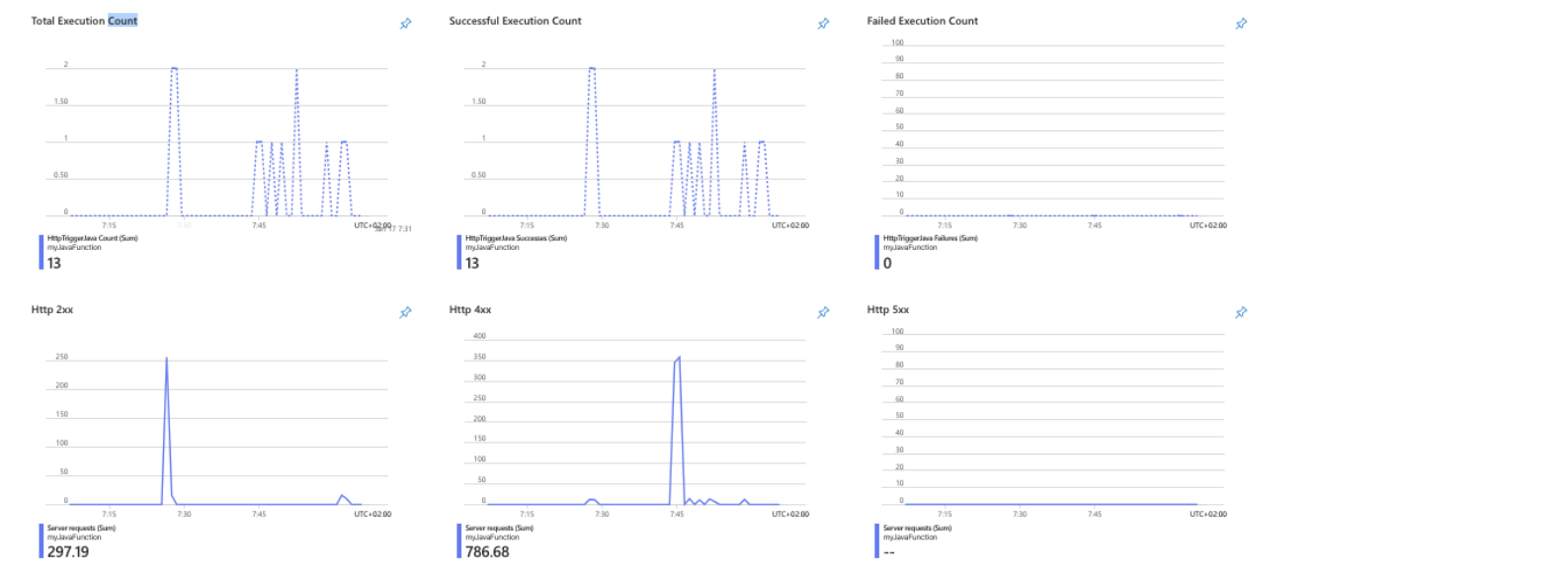
32 o Navigate to the Monitor tab of the Function App.

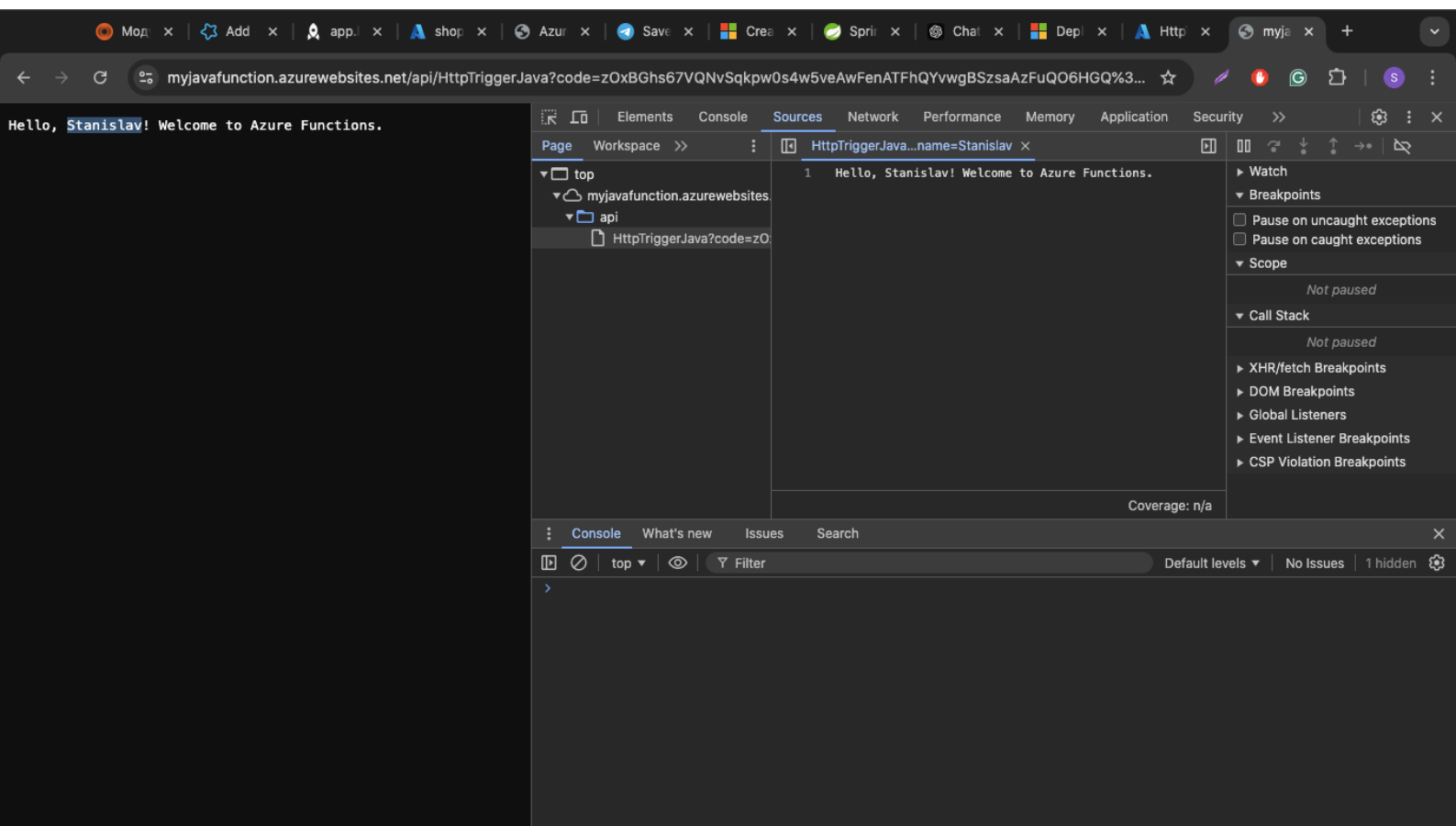
33 o Check metrics like execution count, response time, and errors

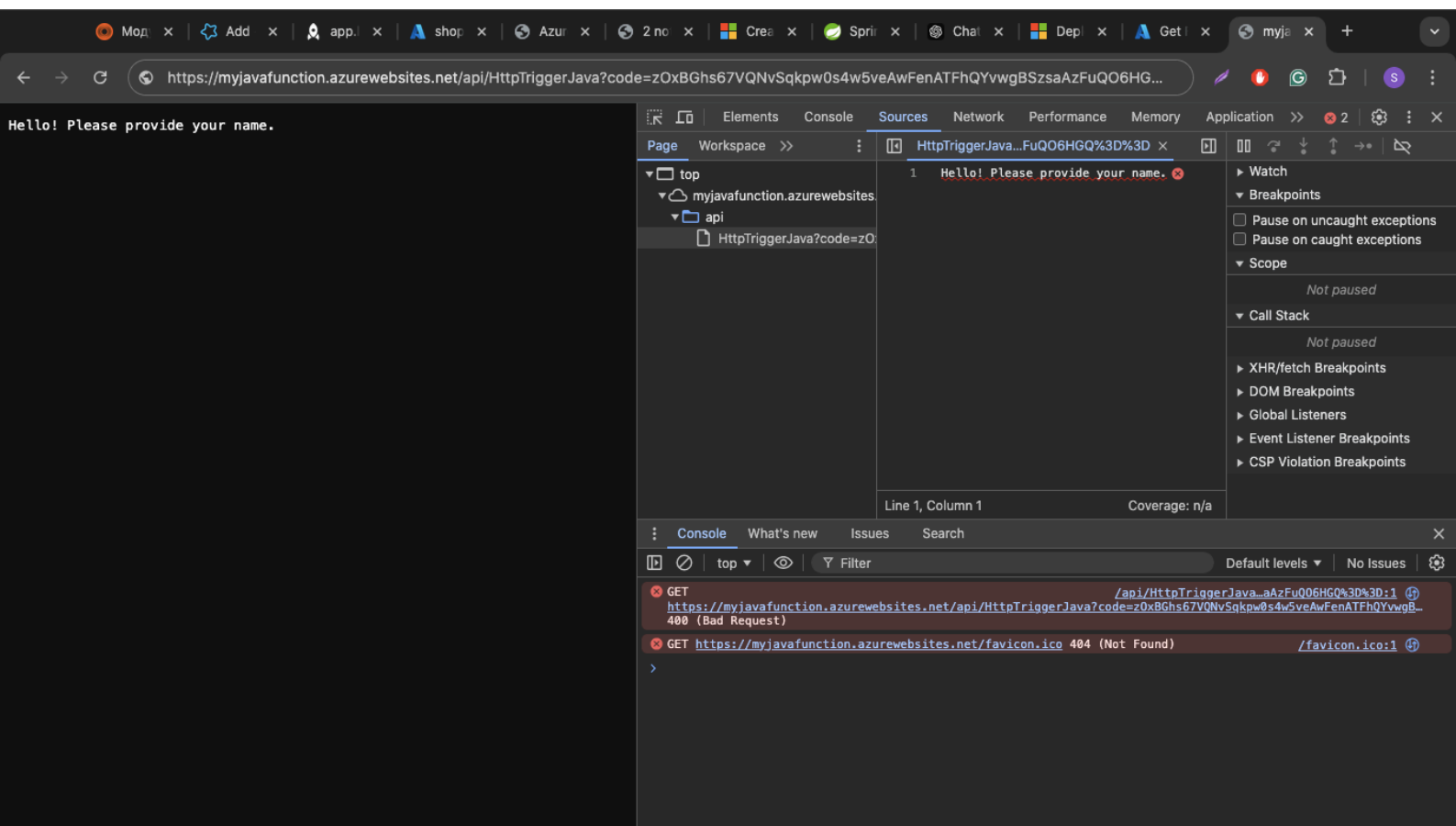
Line 2, Column 1 Tab Size: 4 Java

HttpTriggerJava | Metrics myJavaFunction

Code + Test Integration Function Keys Invocations Logs Metrics Refresh Send us your feedback Show data for the last : 1 hour







Home > myJavaFunction > HttpTriggerJava | Code + Test myJavaFunction

Code + Test Integration Function Keys Invocations Logs Metrics

Save Discard Refresh Test/Run Get function URL Disable Delete Upload Resources

myJavaFunction / HttpTriggerJava / function.json

1 {"scriptFile":"../azure-function-examples.jar","entryPoint":"org.example.functions.HttpTriggerJava"

Logs App Insights Logs

2025-01-17T17:28:04Z [Verbose] AuthenticationScheme: WebJobsAuthLevel was successfully authenticated.
2025-01-17T17:28:04Z [Verbose] AuthenticationScheme: Bearer was not authenticated.
2025-01-17T17:28:04Z [Verbose] Authorization was successful.
2025-01-17T17:28:04Z [Information] Executing 'Functions.HttpTriggerJava' (Reason='This function was invoked by its trigger')
2025-01-17T17:28:04Z [Verbose] Sending invocation id: '0f4b9fc5-0f38-4fa8-9958-04cb17c47edf'
2025-01-17T17:28:04Z [Verbose] Posting invocation id:0f4b9fc5-0f38-4fa8-9958-04cb17c47edf c
2025-01-17T17:28:04Z [Information] Java HTTP trigger processed a request.
2025-01-17T17:28:04Z [Information] Function "HttpTriggerJava" (Id: 0f4b9fc5-0f38-4fa8-9958-
2025-01-17T17:28:04Z [Information] Executed 'Functions.HttpTriggerJava' (Succeeded, Id=0f4b9fc5-0f38-4fa8-9958-04cb17c47edf)

Test/Run

Input Output

HTTP response code 400 Bad Request

HTTP response content Hello! Please provide your name.

Run Close

portal.azure.com/#view/WebsitesExtension/FunctionTabMenuBlade/~/_codeTest/resourceId/%2Fsubscriptions%2Fbf75502e-bab...

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Home > myJavaFunction >

HttpTriggerJava | Code + Test myJavaFunction

Code + Test Integration Function Keys Invocations Logs Metrics

Save Discard Refresh Test/Run Get function URL Disable Delete Upload Resources

myJavaFunction / HttpTriggerJava / function.json

```
1 {"scriptFile": "../azure-function-examples.jar", "entryPoint": "org.example.functions.HttpTriggerJava"}
```

Logs App Insights Logs

2025-01-17T17:27:49Z [Verbose] AuthenticationScheme: WebJobsAuthLevel was successfully authenticated.

2025-01-17T17:27:49Z [Verbose] AuthenticationScheme: Bearer was not authenticated.

2025-01-17T17:27:49Z [Verbose] Authorization was successful.

2025-01-17T17:27:49Z [Information] Executing 'Functions.HttpTriggerJava' (Reason='This function was invoked by its trigger')

2025-01-17T17:27:49Z [Verbose] Sending invocation id: 'c90c8be4-2821-4a99-8a4d-2b5151c6893c'

2025-01-17T17:27:49Z [Verbose] Posting invocation id:c90c8be4-2821-4a99-8a4d-2b5151c6893c

2025-01-17T17:27:49Z [Information] Java HTTP trigger processed a request.

2025-01-17T17:27:49Z [Information] Function "HttpTriggerJava" (Id: c90c8be4-2821-4a99-8a4d-2b5151c6893c) executed successfully.

2025-01-17T17:27:49Z [Information] Executed 'Functions.HttpTriggerJava' (Succeeded, Id=c90c8be4-2821-4a99-8a4d-2b5151c6893c)

Test/Run

Input Output

Provide parameters to test the HTTP request. Results can be found in the Output tab.

HTTP method * POST

Key * _master (Host key)

Query parameters

Name	Value
name	

Headers

Name	Value

Body

Run Close

Home > myJavaFunction >

HttpTriggerJava | Code + Test

myJavaFunction

Code + Test Integration Function Keys Invocations Logs Metrics

Save Discard Refresh Test/Run Get function URL Disable Delete Upload Resource

myJavaFunction / HttpTriggerJava / function.json

```
1 {"scriptFile": "../azure-function-examples.jar", "entryPoint": "org.example.functions.HttpTriggerJava"}
```

Logs App Insights Logs

2025-01-17T17:27:29Z [Verbose] AuthenticationScheme: WebJobsAuthLevel was successfully authenticated.

2025-01-17T17:27:29Z [Verbose] AuthenticationScheme: Bearer was not authenticated.

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2025-01-17T17:27:29Z [Verbose] Sending invocation id: 'f8ff875a-d576-479e-bc8b-ec3c88024915'

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2025-01-17T17:27:29Z [Information] Executed 'Functions.HttpTriggerJava' (Succeeded, Id=f8ff875a-d576-479e-bc8b-ec3c88024915)

Test/Run

Input Output

HTTP response code 200 OK

HTTP response content

Hello, Stanislav! Welcome to Azure Functions.

Run Close

portal.azure.com/#view/WebsitesExtension/FunctionTabMenuBlade/~/.codeTest/resourceId/%2Fsubscriptions%2Fbf75502e-bab...

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Code + Test Integration Function Keys Invocations Logs Metrics

Save Discard Refresh Test/Run Get function URL Disable Delete Upload Resources

myJavaFunction / HttpTriggerJava / function.json

1 {"scriptFile":"../azure-function-examples.jar","entryPoint":"org.example.functions.HttpTriggerJava"

Logs App Insights Logs

2025-01-17T17:26:58Z [Verbose] AuthenticationScheme: WebJobsAuthLevel was successfully authenticated.

2025-01-17T17:26:58Z [Verbose] AuthenticationScheme: Bearer was not authenticated.

2025-01-17T17:26:58Z [Verbose] Authorization was successful.

2025-01-17T17:26:58Z [Information] Executing 'Functions.HttpTriggerJava' (Reason='This function was invoked by its trigger')

2025-01-17T17:26:58Z [Verbose] Sending invocation id: '0f28db05-fa10-4950-9d13-121e3c9d3e66'

2025-01-17T17:26:58Z [Verbose] Posting invocation id:0f28db05-fa10-4950-9d13-121e3c9d3e66

2025-01-17T17:26:58Z [Information] Java HTTP trigger processed a request.

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2025-01-17T17:26:58Z [Information] Executed 'Functions.HttpTriggerJava' (Succeeded, Id=0f28db05-fa10-4950-9d13-121e3c9d3e66)

Test/Run

Input Output

Provide parameters to test the HTTP request. Results can be found in the Output tab.

HTTP method * POST

Key * _master (Host key)

Query parameters

Name	Value	
name	Stanislav	

Headers

Name	Value	

Body

Run Close

Project

org.example.functions

target

Azure

Deployment Targets

myJavaFunction Running

Resource Connections

.gitignore

azure-function-examples.iml

HttpTriggerJava.java

host.json

23

24

25

26

27

28

29

30

31

String query = request.getQueryParameters().get("name");

String name = request.getBody().orElse(query);

if (name == null) {

return request.createResponseBuilder(HttpStatus.BAD_REQUEST).body("Hello! Please provide your name.").build();

else {

return request.createResponseBuilder(HttpStatus.OK).body("Hello, " + name + "! Welcome to Azure Functions.");

}

}

Run: Deploy Functions: azure-function-examples

Start updating Function App(myJavaFunction)...

Function App(myJavaFunction) is successfully updated

Starting deployment...

Trying to deploy artifact to myJavaFunction...

Successfully deployed the artifact to <https://myjavafunction.azurewebsites.net>

Deployment succeed

Azure: No anonymous HTTP Triggers found in deployed function app, skip list triggers.

Azure: Querying triggers...

Azure: Syncing triggers and fetching function information

1 more notification

Version Control

Run

TODO

Problems

Terminal

CheckStyle

Azure Monitor

Services

Build

Dependencies

Azure: No anonymous HTTP Triggers found in deployed function app, skip list triggers... (moments ago)

LF

UTF-8

4 spac...

azure-function-examples src main java org example functions HttpTriggerJava run

Project azure-function-examples ~\Documents

- azure-function-examples
- src
- main
- java
- org.example.functions
- host.json
- HttpTriggerJava

target Azure

Deploy to Azure... Connect Azure Resource...

.gitignore azure-function-examples.iml host.json local.settings.json pom.xml

External Libraries

Scratches and Consoles

Deploy to Azure

Name: Deploy Functions: azure-function-examples

Module: azure-function-examples

Function: myJavaFunction

Deploy to Slot:

Path for host.json: /Users/sk/Documents/AzureDevOps/04 Compute tasts/azure-function-examples/host.json

App Settings:

Name	Value
APPLICATIONINSIGHTS_CONNECTION_STRING	InstrumentationKey=5d69dac2-4f83-43a9-bb01-c461dfb64005;ln
FUNCTIONS_EXTENSION_VERSION	~4
AzureWebJobsSecretStorageType	files
FUNCTIONS_WORKER_RUNTIME	java

Before launch

Build

Cancel Apply Run

Version Control Run TODO Problems Terminal CheckStyle Azure Monitor Services Build Dependencies

Azure: Failed to create Azure Function app (app-azure-function-examples-250117183342). This region has quota of 0 instances for your subscription. Try selecting different region or SKU. //... (38 minutes ago)

26:28 LF UTF-8 4 spac...

Home >

Microsoft.Web-FunctionApp-Portal-9f04000b-b95f | Overview

Deployment

Search x <<

Delete Cancel Redeploy Download Refresh

Overview

Inputs

Outputs

Template

Deployment is in progress

Deployment name : Microsoft.Web-FunctionApp-Portal-9f... Start time : 1/17/2025, 7:03:43 PM

Subscription : Azure subscription 1 Correlation ID : 60759c1c-49b3-4486-9536-4b1603b85...

Resource group : myAppResourceGroup

Deployment details

Resource	Type	Status	Operation details
✓ myJavaFunction	Application Insights	OK	Operation details
✓ myJavaFunction	Application Insights	OK	Operation details
✓ ASP-myAppResour	Microsoft.Web/serverfarms	OK	Operation details
✓ newWorkspaceTem	Deployment	OK	Operation details

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portal.azure.com/#view/WebsitesExtension/AppServiceFunctionAppCreateV3Blade/_provisioningContext~/%7B"initialValues"%...

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Home > Function App > Create Function App >

Create Function App (Consumption) ...

Hosting

Plan (New)

Hosting options and plans	Consumption
Name	ASP-myAppResourceGroup-a937
Operating System	Windows
Region	Canada Central
SKU	Dynamic

Monitoring (New)

Application Insights	Enabled
Name	myJavaFunction
Region	Canada Central

Deployment

Basic authentication	Disabled
Continuous deployment	Not enabled / Set up after app creation

Create< PreviousNext >Download a template for automation

Модуль xAdd-on xapp.la xshop xAzure xSaved xCreate xSpring xChatG xDeplo xCreatex+

portal.azure.com/#view/WebsitesExtension/AppServiceFunctionAppCreateV3Blade/_provisioningContext~/%7B"initialValues"%...

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Home > Function App > Create Function App >

Create Function App (Consumption) ...

BasicsNetworkingMonitoringDeploymentTagsReview + create

Summary

Function App

by Microsoft

Basic authentication for this app is currently disabled and may impact deployments. Click to learn more.

Details

Subscription

bf75502e-bab2-4709-9623-046fbddb39b7

Resource Group

myAppResourceGroup

Name

myJavaFunction

Runtime stack

Java 17.0

Hosting

Plan (New)

Create

< Previous

Next >

Download a template for automation

Create Function App (Consumption) ...

publish a web application.

Project Details

Select a subscription to manage deployed resources and costs. Use resource groups like folders to organize and manage all your resources.

Subscription * ⓘ Azure subscription 1

Resource Group * ⓘ myAppResourceGroup

Create new

Instance Details

Function App name * myJavaFunction .azurewebsites.net

Runtime stack * Java

Version * 17.0

Region * Canada Central

Operating System * ☐ Linux ☒ Windows

