

1. Python script creates all the resources in the azure.

```
# Function app and storage account names must be unique.

# Variable block
let "randomIdentifier=$RANDOM"$RANDOM"
location="eastus"
resourceGroup="rohith-azure-functions-rg-$randomIdentifier"
tag="create-function-app-consumption-python"
storage="rohith$randomIdentifier"
functionApp="rohith-serverless-python-function-$randomIdentifier"
skuStorage="Standard_LRS"
functionsVersion="4"
pythonVersion="3.9" #Allowed values: 3.7, 3.8, and 3.9

# Create a resource group
echo "Creating $resourceGroup in \"$location\"..."
az group create --name $resourceGroup --location "$location" --tags $tag

# Create an Azure storage account in the resource group.
echo "Creating $storage"
az storage account create --name $storage --location "$location" --resource-group $resourceGroup --sku $skuStorage

# Create a serverless python function app in the resource group.
echo "Creating $functionApp"
az functionapp create --name $functionApp --storage-account $storage --consumption-plan-location "$location" --resource-group $resourceGroup --os-type Linux --runtime python --runtime-version $pythonVersion --functions-version $functionsVersion
```

```
Rohith Kandikatla@DESKTOP-KJOVULU MINGW64 ~ (master)
$ cd desktop/

Rohith Kandikatla@DESKTOP-KJOVULU MINGW64 ~/desktop (master)
$ ls
720/           'Docker Desktop.lnk'*           Portfolio/
724/           'DSU FALL 2024 Fees paid receipt.pdf' 'PYTHON EXAMPLES'/
730/           'EPF PENSION CLAIM FORM.pdf'     'RESUME 2024'/
750/           'FALL 2024 DSU FEES.pdf'         'Revanth Kandikatla Resume.pdf'
766/           'FALL 2024 DSU FEES.pdf ORIGINAL.pdf' 'Rohith Kandikatla Cover letter.docx'
780/           'Fall 2024 fees payment.pdf'     'Rohith Kandikatla Resume.docx'
AI--SWEDEN/    GA/                             'SAI ROHITH FILES- DSU'/
azuredevops/   ilovepdf_merged.pdf            'System Analysis and Design .xlsx'
B1B2/          'INFS 764'/                     TCS/
'BC Overseas'/ 'Kandikatla - Chrome.lnk'*       TuneOut/
CICD/          'MIA RESEARCH PAPERS.pdf'        'Visual Studio Code.lnk'*
desktop.ini    'My ITR Files AIS'/             'Zoom Workplace.lnk'*
DevOps/        OPT/
DOCKER/        'PC Health Check.lnk'*

Rohith Kandikatla@DESKTOP-KJOVULU MINGW64 ~/desktop (master)
$ cd azuredevops/

Rohith Kandikatla@DESKTOP-KJOVULU MINGW64 ~/desktop/azuredevops (master)
$ ls
ARM/  azurefunctions/  IAM/  robotshop/

Rohith Kandikatla@DESKTOP-KJOVULU MINGW64 ~/desktop/azuredevops (master)
$ cd azurefunctions/

Rohith Kandikatla@DESKTOP-KJOVULU MINGW64 ~/desktop/azuredevops/azurefunctions (master)
$ ls
create-function-app.sh

Rohith Kandikatla@DESKTOP-KJOVULU MINGW64 ~/desktop/azuredevops/azurefunctions (master)
$ vim create-function-app.sh

Rohith Kandikatla@DESKTOP-KJOVULU MINGW64 ~/desktop/azuredevops/azurefunctions (master)
$ chmod 777 create-function-app.sh
```

```

Rohith Kandikatla@DESKTOP-KJOVULU MINGW64 ~/desktop/azuredevops/azurefunctions (master)
$ ./create-function-app.sh
Creating rohith-azure-functions-rg-103038026 in eastus...
{
  "id": "/subscriptions/a7d6c68e-2aa8-4a97-bd47-f4329807e6d5/resourceGroups/rohith-azure-functions-rg-103038026",
  "location": "eastus",
  "managedBy": null,
  "name": "rohith-azure-functions-rg-103038026",
  "properties": {
    "provisioningState": "Succeeded"
  },
  "tags": {
    "create-function-app-consumption-python": ""
  },
  "type": "Microsoft.Resources/resourceGroups"
}
Creating rohith103038026
{
  "accessTier": "Hot",
  "accountMigrationInProgress": null,
  "allowBlobPublicAccess": false,
  "allowCrossTenantReplication": false,
  "allowSharedKeyAccess": null,
  "allowedCopyScope": null,
  "azureFilesIdentityBasedAuthentication": null,
  "blobRestoreStatus": null,
  "creationTime": "2024-12-23T09:08:44.264536+00:00",
  "customDomain": null,
  "defaultToOAuthAuthentication": null,
  "dnsEndpointType": null,
  "enableExtendedGroups": null,
  "enableHttpsTrafficOnly": true,
  "enableNfsV3": null,
  "encryption": {
    "encryptionIdentity": null,
    "keySource": "Microsoft.Storage",
    "keyVaultProperties": null,
    "requireInfrastructureEncryption": null,
    "services": {
      "blob": {

```

2. Created a azure function using blob trigger if any user uploads a file into blob storage it gets triggers.

The screenshot shows the Microsoft Azure portal interface. On the left, the navigation pane is open, showing the 'rohith-serverless-python-function-103038026' Function App. The main area displays the 'Create function' wizard, specifically the 'Select a template' step. A table lists various triggers, with 'Blob trigger' highlighted. Below the table, there is a 'Create in Azure portal' button and a note about optimization.

Name	Trigger
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
Queue trigger	A function that will be run whenever a message is added to a specified Azure Storage queue
ServiceBus Queue trigger	A function that will be run whenever a message is added to a specified Service Bus queue
ServiceBus Topic trigger	A function that will be run whenever a message is added to the specified Service Bus topic
Blob trigger	A function that will be run whenever a blob is added to a specified container
EventHub trigger	A function that will be run whenever an event hub receives a new event
CosmosDB trigger	A function that will be run whenever documents change in a document

Create in Azure portal
 Best optimized for:
 • Getting started without code
 • Choose from our Function templates

The screenshot shows the 'Create function' wizard in the Azure portal. The left sidebar contains navigation links like Overview, Activity log, Access control (IAM), Tags, Diagnose and solve problems, Microsoft Defender for Cloud, Events (preview), Recommended services (preview), Log stream, Functions, Deployment, Settings, Performance, App Service plan, API, Monitoring, and Automation. The main content area shows the 'Create function' wizard with two steps: 'Select a template' and 'Template details'. The 'Select a template' step is active, showing a dropdown for 'Job type' (Create new app), a text input for 'Provide a function name' (BlobTrigger1), a text input for 'Path' (samples-workitems/(name)), and a dropdown for 'Storage account connection' (AzureWebJobsStorage). Below the wizard, there's a 'Create in Azure portal' section with a 'Create function' button.

The screenshot shows the 'Azure services' and 'Resources' sections in the Azure portal. The 'Azure services' section displays icons for various services: Create a resource, Storage accounts, Resource groups, Function App, Azure Arc data controllers, Kubernetes services, Subscriptions, Kubernetes fleet manager, Virtual machines, and More services. The 'Resources' section has tabs for 'Recent' and 'Favorite'. The 'Recent' tab is active, showing a table of resources:

Name	Type	Last Viewed
rohith103038026	Storage account	11 minutes ago
rohith-serverless-python-function-103038026	Function App	19 minutes ago
rohith-azure-functions-rg-103038026	Resource group	34 minutes ago
rohith-serverless-python-function-103038026	Application Insights	34 minutes ago

Below the table is a 'See all' link.

3. Code that checks and runs

The screenshot shows the 'Code + Test' tab for the 'BlobTrigger1' function in the Azure portal. The left sidebar contains navigation links like Overview, Activity log, Access control (IAM), Tags, Diagnose and solve problems, Microsoft Defender for Cloud, Events (preview), Recommended services (preview), Log stream, Functions, Deployment, Settings, Performance, App Service plan, API, Monitoring, and Automation. The main content area shows the 'Code + Test' tab with a 'Test/Run' button and a 'Get function URL' button. The code editor displays the following Python code:

```

1 import azure.functions as func
2 import logging
3
4 app = func.FunctionApp()
5
6 @app.blob_trigger(arg_name="myblob", path="samples-workitems/(name)",
7                   connection="AzureWebJobsStorage")
8 def BlobTrigger1(myblob: func.InputStream):
9     logging.info(f"Python blob trigger function processed blob"
10                 f"Name: {myblob.name}"
11                 f"Blob Size: {myblob.length} bytes")
12

```

Microsoft Azure

Upgrade

Search resources, services, and docs (G+J)

Copilot

kandikatarohith24@gm...
DEFAULT DIRECTORY (KANDIKAT...

Home > rohith-serverless-python-function-103038026 > BlobTrigger1

BlobTrigger1 | Integration

rohith-serverless-python-function-103038026

Code + TestIntegrationFunction KeysInvocationsLogsMetrics

RefreshSend us your feedback

Use the code editor to update new programming model function bindings.

Trigger and inputs

Trigger

Azure Blob Storage (myblob)

Inputs

No inputs defined

Add input

Function

BlobTrigger1

Outputs

No outputs defined

Add output

Microsoft Azure

Upgrade

Search resources, services, and docs (G+J)

Copilot

kandikatarohith24@gm...
DEFAULT DIRECTORY (KANDIKAT...

Home > rohith-serverless-python-function-103038026 > BlobTrigger1

BlobTrigger1 | Invocations

rohith-serverless-python-function-103038026

Code + TestIntegrationFunction KeysInvocationsLogsMetrics

Open in Application InsightsRefreshSend us your feedback

Results may be delayed for up to 5 minutes.

Query

Up to 20 of the most recent function invocation traces. For more advanced analysis, run the query in Application Insights.

Success count

0

Last 30 days

Error count

0

Last 30 days

Search

Date	Status	Result Code	Duration (ms)	Operation ID
No results found.				

Microsoft Azure

Upgrade

Search resources, services, and docs (G+J)

Copilot

kandikatarohith24@gm...
DEFAULT DIRECTORY (KANDIKAT...

Home > Storage accounts > rohith103038026

Storage accounts

Default Directory (kandikatarohith24@gmail.onmicr...

CreateRestore...

Filter for any field...

Name ↑

rohith103038026

rohith103038026 | Containers

Storage account

Search

+ ContainerChange access levelRestore containersRefresh

Search containers by prefix

Name	Last modified
<input type="checkbox"/> \$logs	23/12/2024, 3:30:05 a
<input type="checkbox"/> azure-webjobs-hosts	23/12/2024, 3:16:13 a
<input type="checkbox"/> azure-webjobs-secrets	23/12/2024, 3:16:09 a
<input type="checkbox"/> scm-releases	23/12/2024, 3:10:35 a

New container

Name *

sample-workitems

Anonymous access level

Private (no anonymous access)

The access level is set to private because anonymous access is disabled on this storage account.

Advanced

4. Uploading an image in blob storage.

Home > Storage accounts > rohith103038026 | Containers >

sample-workitems Container

Search [] « Upload Change access level Refresh Delete Change tier Acquire lease Break lease View snapshots Create snapshot Give feedback

Authentication method: Access key (Switch to Microsoft Entra user account)
Location: sample-workitems

Search blobs by prefix (case-sensitive) [] Show deleted blobs []

+ Add filter

Name	Modified	Access tier	Archive status	Blob type	Size	Lease state
<input type="checkbox"/> AWS Certified Solution Architect.png	23/12/2024, 3:42:37 ...	Hot (Inferred)		Block blob	37.78 KiB	Available

5. As soon as a file is uploaded in blob storage the blob triggered.

Home > BlobTrigger1

BlobTrigger1 | Invocations

rohith-serverless-python-function-103038026

Code + Test Integration Function Keys **Invocations** Logs Metrics

Open in Application Insights Refresh Send us your feedback

Query
Up to 20 of the most recent function invocation traces. For more advanced analysis, run the query in Application Insights.

Success count
1
Last 30 days

Error count
0
Last 30 days

Search []

Date	Status	Result Code	Duration (ms)	Operation ID
12/23/2024, 3:56:10 AM	Success	0	200	e6ea85e360c9147caa2eef783ab81817