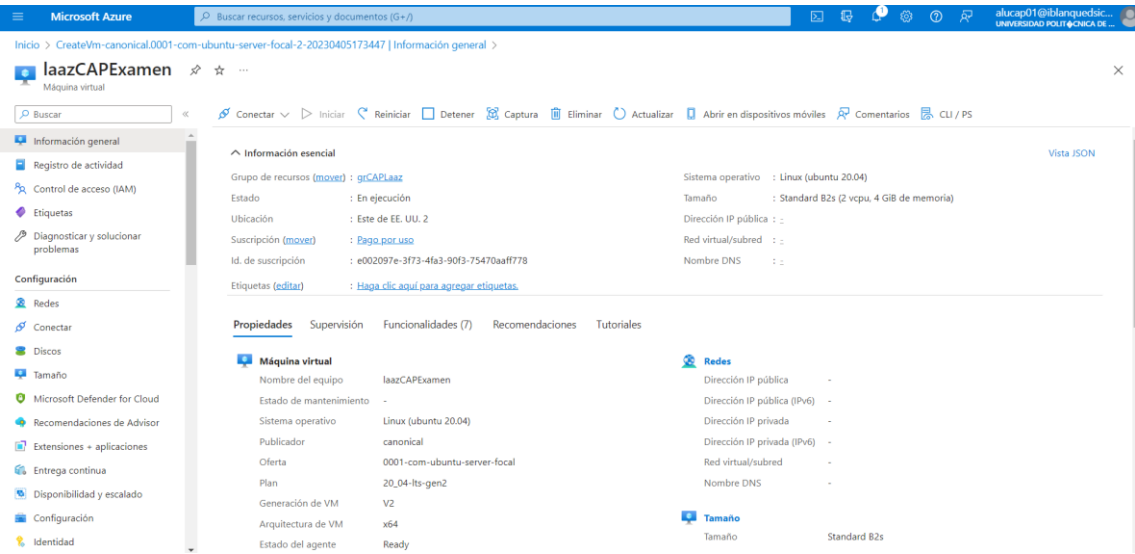
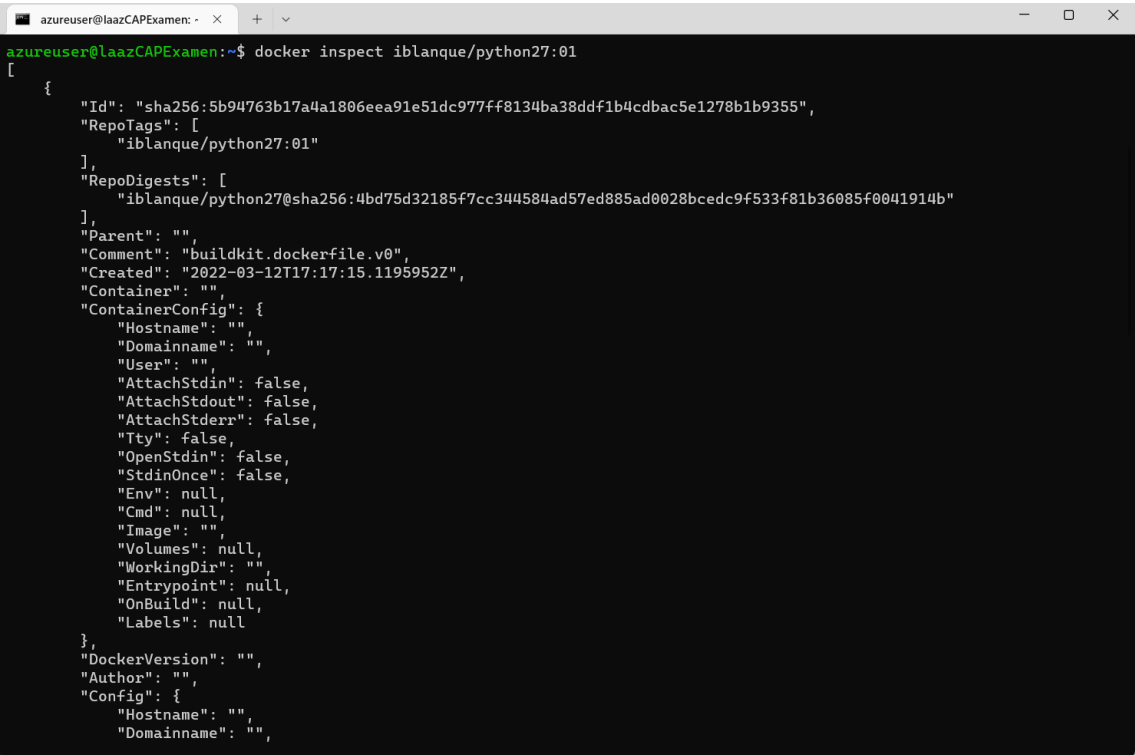


Aparatado A

Máquina virtual:



Docker inspect del repositorio de github



## Apartado B

Ejecución de la imagen iblanque/python27:01

```
azureuser@laazCAPExamen: ~$ docker run iblanque/python27:01
U3VlcuRlIGVuIGVsIGV4YW1lbiAyMzQ=azureuser@laazCAPExamen:~$
```

## Apartado C

Modificamos el código por defecto del fichero `__init__.py` para que funcione como un decodificador

```
import logging

import azure.functions as func
import base64;

def main(req: func.HttpRequest) -> func.HttpResponse:
    logging.info('Python HTTP trigger function processed a request.')

    b64mensaje = req.params.get('mensaje')
    if not b64mensaje:
        try:
            req_body = req.get_json()
        except ValueError:
            pass
        else:
            b64mensaje = req_body.get('mensaje')

    if b64mensaje:
        mensaje = base64.b64decode(b64mensaje).decode("utf-8")
        return func.HttpResponse(f"Your message decoded is :{mensaje}")
    else:
        return func.HttpResponse(
            "This HTTP triggered function executed successfully. Pass a message in the query string or in the request body for a personalized response.",
            status_code=200
        )
```

Comprobamos en local su funcionamiento:

```
root@b66588247890:/funciones# func start
Found Python version 3.8.10 (python3).

Azure Functions Core Tools

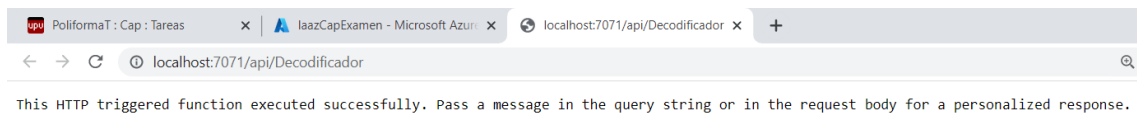
Functions:

    Decodificador: [GET,POST] http://localhost:7071/api/Decodificador

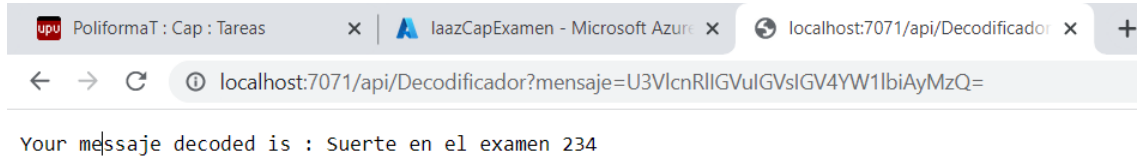
For detailed output, run func with --verbose flag.
info: Microsoft.AspNetCore.Hosting.Diagnostics[1]
      Request starting HTTP/2 POST http://127.0.0.1:35263/AzureFunctionsRpcMessages.FunctionRpc/EventStream application/grpc -
info: Microsoft.AspNetCore.Routing.EndpointMiddleware[0]
      Executing endpoint 'gRPC - /AzureFunctionsRpcMessages.FunctionRpc/EventStream'
      Worker process started and initialized.
      Host lock lease acquired by instance ID '000000000000000000000000A5952664'.
      Executing 'Functions.Decodificador' (Reason='This function was programmatically called via the host APIs.', Id=1f5c033b-e4ca-4e16-936e-66757f391534)
      Python HTTP trigger function processed a request.
      Executed 'Functions.Decodificador' (Succeeded, Id=1f5c033b-e4ca-4e16-936e-66757f391534, Duration=165ms)

      Executing 'Functions.Decodificador' (Reason='This function was programmatically called via the host APIs.', Id=a8facbb9-4092-47ff-a03f-e8b4500d88a8)
      Python HTTP trigger function processed a request.
      Executed 'Functions.Decodificador' (Succeeded, Id=a8facbb9-4092-47ff-a03f-e8b4500d88a8, Duration=9ms)
```

## Sin parámetros



## Con el parámetro del mensaje U3VlcnRIIGVulIGVslGV4YW1lbiAyMzQ=



Procedemos a publicar la función:

Hacemos login con la cuenta de azure

```
root@b66588247890:/funciones# az login
To sign in, use a web browser to open the page https://microsoft.com/devicelogin and enter the code DJLKB8ALP to authenticate.
[
  {
    "cloudName": "AzureCloud",
    "homeTenantId": "248841d7-ebd9-4e49-9362-c7e8d4f76300",
    "id": "e002097e-3f73-4fa3-90f3-75470aaff778",
    "isDefault": true,
    "managedByTenants": [],
    "name": "Pago por uso",
    "state": "Enabled",
    "tenantId": "248841d7-ebd9-4e49-9362-c7e8d4f76300",
    "user": {
      "name": "alucap01@iblanquedisicupv.onmicrosoft.com",
      "type": "user"
    }
  }
]
root@b66588247890:/funciones#
```

Publicamos la función

```
root@b66588247890:/funcio x + v
root@b66588247890:/funciones# ls
Decodificador getting_started.md host.json local.settings.json requirements.txt
root@b66588247890:/funciones# func azure functionapp publish laazcapexamen
Getting site publishing info...
Removing WEBSITE_CONTENTAZUREFILECONNECTIONSTRING app setting (DefaultEndpointsProtocol=https;AccountName=laazcapexamengroupabbd;AccountKey=kNw6QPHptaYDkoBnqgBPH+S6190gd4+9rxC6j1BusZiH170Gs8c4ZQe0yoURh87H0xjZZwONCSj/+AStJYhUDA==;EndpointSuffix=core.windows.net)
Removing WEBSITE_CONTENTSHARE app setting (laazcapexamen8f3f)
Creating archive for current directory...
Performing remote build for functions project.
Deleting the old .python_packages directory
Uploading 3.53 KB [#####]
Remote build in progress, please wait...
Updating submodules.
Preparing deployment for commit id '404b6134-c'.
PreDeployment: context.CleanOutputPath False
PreDeployment: context.OutputPath /home/site/wwwroot
Repository path is /tmp/zipdeploy/extracted
Running oryx build...
Command: oryx build /tmp/zipdeploy/extracted -o /home/site/wwwroot --platform python --platform-version 3.8.6 -p package
dir=.python_packages/lib/site-packages
Operation performed by Microsoft Oryx, https://github.com/Microsoft/Oryx
You can report issues at https://github.com/Microsoft/Oryx/issues

Oryx Version: 0.2.20210120.1, Commit: 66c7820d7df527aaffabd2563a49ad57930999c9, ReleaseTagName: 20210120.1

Build Operation ID: |A0h9nIH3M84=.c2ace52f_
Repository Commit : 404b6134-caff-48a8-ac4c-952d491bd562

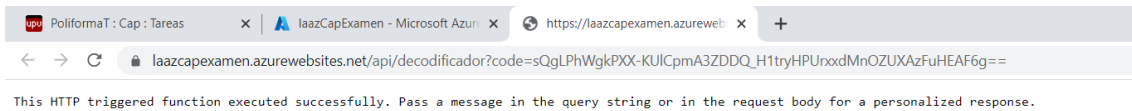
Detecting platforms...
Detected following platforms:
  python: 3.8.6
Version '3.8.6' of platform 'python' is not installed. Generating script to install it...

Source directory      : /tmp/zipdeploy/extracted
```

Con el enlace que nos ha generado podemos acceder a la función desde internet

```
root (0)
Creating placeholder blob for linux consumption function app...
SCM_RUN_FROM_PACKAGE placeholder blob scm-latest-laazCapExamen.zip located
Uploading built content /home/site/artifacts/functionappartifact.squashfs for linux consumption function app...
Resetting all workers for laazcapexamen.azurewebsites.net
Deployment successful. deployer = Push-Deployer deploymentPath = Functions App ZipDeploy. Extract zip. Remote build.
Remote build succeeded!
Syncing triggers...
Functions in laazCapExamen:
  Decodificador - [httpTrigger]
    Invoke url: https://laazcapexamen.azurewebsites.net/api/decodificador?code=sQgLPhWgkPXX-KULCpmA3ZDDQ_H1tryHPURxxdMn0ZUXAzFuHEAF6g==
```

Con el cual obtenemos este mensaje y comprobamos que la pagina web funciona correctamente



## Apartado D

Comprobamos que funciona correctamente pasándole el mensaje

