Week 5: Cloud and API deployment

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Batch code -LISUM32

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Updating required Libraries

```
Install the latest PowerShell for new features and improvements! https://aka.ms/PSWindows

PS C:\Users\apurw\OneDrive\Documents\Data Glacier\Week 5\ML> pip install numpy scikit-learn joblib flask gunicorn
Requirement already satisfied: numpy in c:\users\apurw\appdata\local\programs\python\python311\lib\site-packages (1.26.1)
Requirement already satisfied: bolib in c:\users\apurw\appdata\local\programs\python\python311\lib\site-packages (1.3.1)
Requirement already satisfied: bolib in c:\users\apurw\appdata\local\programs\python\python311\lib\site-packages (1.3.2)
Requirement already satisfied: flask in c:\users\apurw\appdata\local\programs\python\python311\lib\site-packages (3.9.3)
Collecting gunicorn
Downloading gunicorn-22.0.0-py3-none-any.whl.metadata (4.4 kB)
Requirement already satisfied: scipy=1.5.0 in c:\users\apurw\appdata\local\programs\python\python311\lib\site-packages (from scikit-learn) (1.11.3)
Requirement already satisfied: threadpoolctl>2.0.0 in c:\users\apurw\appdata\local\programs\python\python311\lib\site-packages (from scikit-learn) (3.2.0)
Requirement already satisfied: breadpoolctl>2.0.0 in c:\users\apurw\appdata\local\programs\python\python311\lib\site-packages (from flask) (3.0.1)
Requirement already satisfied: scipy=3.1.2 in c:\users\apurw\appdata\local\programs\python\python311\lib\site-packages (from flask) (3.0.1)
Requirement already satisfied: scipy=3.1.2 in c:\users\apurw\appdata\local\programs\python\python311\lib\site-packages (from flask) (3.1.2)
Requirement already satisfied: scipy=3.1.2 in c:\users\apurw\appdata\local\programs\python\python311\lib\site-packages (from flask) (3.1.2)
Requirement already satisfied: scipy=3.1.2 in c:\users\apprw\appdata\local\programs\python\python311\lib\site-packages (from flask) (3.1.2)
Requirement already satisfied: click>=3.1.3 in c:\users\apprw\appdata\local\programs\python\python311\lib\site-packages (from flask) (3.1.2)
Requirement already satisfied: scipy=3.1.2 in c:\users\apprw\appdata\local\programs\python\python311\lib\site-packages (fr
```

Logging to Microsoft Azure

```
apurw@Apurwa MINGW64 ~/OneDrive/Documents/Data Glacier/Week 5/ML/IrisFlaskApp (m
aster)
$ az login
WARNING: A web browser has been opened at https://login.microsoftonline.com/orga
nizations/oauth2/v2.0/authorize. Please continue the login in the web browser. I
f no web browser is available or if the web browser fails to open, use device co
de flow with `az login --use-device-code`.
[
    "cloudName": "AzureCloud",
    "homeTenantId": "a8eec281-aaa3-4dae-ac9b-9a398b9215e7",
    "id": "dc94405d-448b-430a-9169-2018d6656259",
    "isDefault": true,
    "managedByTenants": [],
    "name": "Azure for Students",
    "state": "Enabled",
    "tenantId": "a8eec281-aaa3-4dae-ac9b-9a398b9215e7",
    "user": {
        "name": "sontakke.ap@northeastern.edu",
        "type": "user"
    }
}
```

Creating Resource Group

```
apurw@Apurwa MINGW64 ~/OneDrive/Documents/Data Glacier/Week 5/ML/IrisFlaskApp (m
aster)

$ az group create --name MyResourceGroup --location eastus

{
    "id": "/subscriptions/dc94405d-448b-430a-9169-2018d6656259/resourceGroups/MyResourceGroup",
    "location": "eastus",
    "managedBy": null,
    "name": "MyResourceGroup",
    "provisioningState": "Succeeded"
    },
    "tags": null,
    "type": "Microsoft.ResourceS/resourceGroups"
}
```

Setting MyPlan

Pushing to Git

```
apurw@Apurwa MINGW64 ~/OneDrive/Documents/Data Glacier/Week 5/ML/IrisFlaskApp (master)
$ git remote add origin https://github.com/apurwasontakke/Week-5-Cloud-and-API-deployment
git push -u origin master
Enumerating objects: 7734
git push -u origin master

Enumerating objects: 7724, done.

Counting objects: 100% (7724/7724), done.

Delta compression using up to 12 threads

Compressing objects: 100% (7667/7667), done.

error: unable to rewind rpc post data - try increasing http.postBuffer

error: RPC failed; curl 65 OpenSSL SSL_read: OpenSSL/3.2.1: error:OAO003FC:SSL routines::ssl/tls alert

bad record mac, errno 0

send-pack: unexpected disconnect while reading sideband packet

Writing objects: 100% (7724/7724), 83.52 MiB | 6.03 MiB/s, done.

Total 7724 (delta 798), reused 0 (delta 0), pack-reused 0 (from 0)

fatal: the remote end hung up unexpectedly

Everything up-to-date
  apurw@Apurwa MINGW64 ~/OneDrive/Documents/Data Glacier/Week 5/ML/IrisFlaskApp (master) $ git lfs track "*.type"
Tracking "*.type"
     purw@Apurwa MINGW64 ~/OneDrive/Documents/Data Glacier/Week 5/ML/IrisFlaskApp (master)
 apurweapurwa MINGWO4 ~/OneDrive/Document

$ git add .gitattributes

git commit -m "Configure LFS tracking"

[master 3e47e4e] Configure LFS tracking

1 file changed, 1 insertion(+)

create mode 100644 .gitattributes
  apurw@Apurwa MINGW64 ~/OneDrive/Documents/Data Glacier/Week 5/ML/IrisFlaskApp (master)
$ git config http.postBuffer 524288000 # Sets the buffer to 500MB
     purw@Apurwa MINGW64 ~/OneDrive/Documents/Data Glacier/Week 5/ML/IrisFlaskApp (master)
 git add .
git commit -m "Add files for push"
On branch master
nothing to commit, working tree clean
                                                                      eDrive/Documents/Data Glacier/Week 5/ML/IrisFlaskApp (master)
 apurw@Apurwa MINGw64 ~/OneDrive/Documents/Data Glacier/Week 5/ML/If $ git push -u origin master Enumerating objects: 7727, done. Counting objects: 100% (7727/7727), done. Delta compression using up to 12 threads Compressing objects: 100% (7669/7669), done. Writing objects: 100% (7727/7727), 83.52 MiB | 6.54 MiB/s, done. Total 7727 (delta 800), reused 0 (delta 0), pack-reused 0 (from 0) remote: Resolving deltas: 100% (800/800), done.
   remote:
   remote: Create a pull request for 'master' on GitHub by visiting:
remote: https://github.com/apurwasontakke/Week-5-Cloud-and-API-deployment/pull/new/master
   remote:
  To https://github.com/apurwasontakke/Week-5-Cloud-and-API-deployment
* [new branch] master -> master
branch 'master' set up to track 'origin/master'.
```

Deployed to Git

papurwasontakke Add or update the Azure App Service build and deployment workflo bdb6c9b · 2 hours ago 3 Commits				
github/workflows	Add or update the Azure App Service build and deployment	2 hours ago		
venv	Initial commit	last week		
	Configure LFS tracking	3 hours ago		
Procfile.txt	Initial commit	last week		
Procfile`.txt	Initial commit	last week		
app.py	Initial commit	last week		
model.joblib	Initial commit	last week		
requirements.txt	Initial commit	last week		

Deployment Log Details

7:26:00 PM	
7:26:00 PM	Generating summary of Oryx build
7:26:00 PM	Parsing the build logs
7:26:01 PM	Found 0 issue(s)
7:26:01 PM	
7:26:01 PM	Build Summary :
7:26:01 PM	=======================================
7:26:01 PM	Errors (0)
7:26:01 PM	Warnings (0)
7:26:01 PM	
7:26:01 PM	Triggering recycle (preview mode disabled).
7:26:02 PM Close	Deployment successful. deployer = GITHUB_ZIP_DEPLOY deploymentPath = ZipDeploy. Extract zip. Remote build.

Log Details

Commit ID: 540b4d7e-d558-4051-acd6-03ae39969a74

Time	Activity	Log
7:21:06 PM	Updating submodules.	
7:21:07 PM	Preparing deployment for commit id '540b4d7e-d'.	
7:21:07 PM	PreDeployment: context.CleanOutputPath False	
7:21:07 PM	PreDeployment: context.OutputPath /home/site/wwwroot	
7:21:08 PM	Repository path is /tmp/zipdeploy/extracted	
7:21:08 PM	Running oryx build	Show Logs
7:26:00 PM	Running post deployment command(s)	
7:26:00 PM		
Close 7:26:00 PM	Generating summary of Oryx build	