



Cairo University

Faculty of Engineering - Cairo University
Credit Hours System - Senior Level
BDE Department
Spring 2024



Distributed app Development

Lab Assignment #1 EHR Web App on AZURE cloud

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result:

<https://abdelrahmankamal4210201.azurewebsites.net/>



vm1 for web app :

Microsoft Azure

Home > App Services > AbdelrahmanKamal4210201

App Services

Default Directory

+ Create ...

Filter for any field...

Name ↑

- AbdelrahmanKamal4210201

AbdelrahmanKamal4210201 | Deployment Center

Web App

Search

Save Discard Browse Manage publish profile Sync Leave Feedback

Settings Logs FTPS credentials

Refresh Delete

Time	Commit ID	Logs	Commit Author	Status	Message
Saturday, March 16, 2024 (1)					
03/16/2024, 5:38:21 AM +02:00	6085f6f	App Logs	N/A	Success (Active)	Add or update the Azure App Service build and deployment workflow config

Vm2 for Database (postgresql) server :

ome >

aad_abdo_20240316052834816Z | Overview

Deployment

Search

Delete Cancel Redeploy Download Refresh

Overview

Inputs

Outputs

Template

✓ Your deployment is complete

Deployment name : aad_abdo_20240316052834816Z Start time : 3/16/2024, 7:28:40 AM

Subscription : Azure for Students Correlation ID : 7ccf9ecb-a996-43ba-bf45-8ce9199870

Resource group : distributed_lab

> Deployment details

✓ Next steps

[Go to resource](#)

Visual Studio Code

Workspace: Local

- Attached Storage Accounts
- Attached Database Accounts

Configuration file (e.g., .env):

```
85 # }
86 # }
87
88 ## version2
89 DATABASES = {
90     'default': {
91         'ENGINE': 'django.db.backends.postgresql',
92         'NAME': 'abdo',
93         'USER': 'abdo',
94         'PASSWORD': 'Abdokamal123',
95         'HOST': 'ahrsrvr.postgres.database.azure.com',
96         'PORT': '5432',
97         'OPTIONS': {'sslmode': 'require'},
98     }
99 }
100
101
102 # Password validation
103 # https://docs.djangoproject.com/en/4.0/ref/settings/#auth-password-validators
```

Terminal:

```
> Create new Azure Database Server "abdo" Succeeded
```

learning outcomes of this assignment:

1. Deploy a basic web application on Microsoft Azure
2. Work with a Django codebase
3. Connect a deployed app to GitHub
4. Set up a PostgreSQL database for Django
5. Use basic Git commands
6. Perform database migrations in Django