Lab-7 Deploy Service

Get Started with Atlas

Follow the guidance **Get Started with Atlas** in the lab handout.

i. Create an Atlas account.

ii. Deploy a free cluster.

iii. Add your connection IP address to your IP access list.

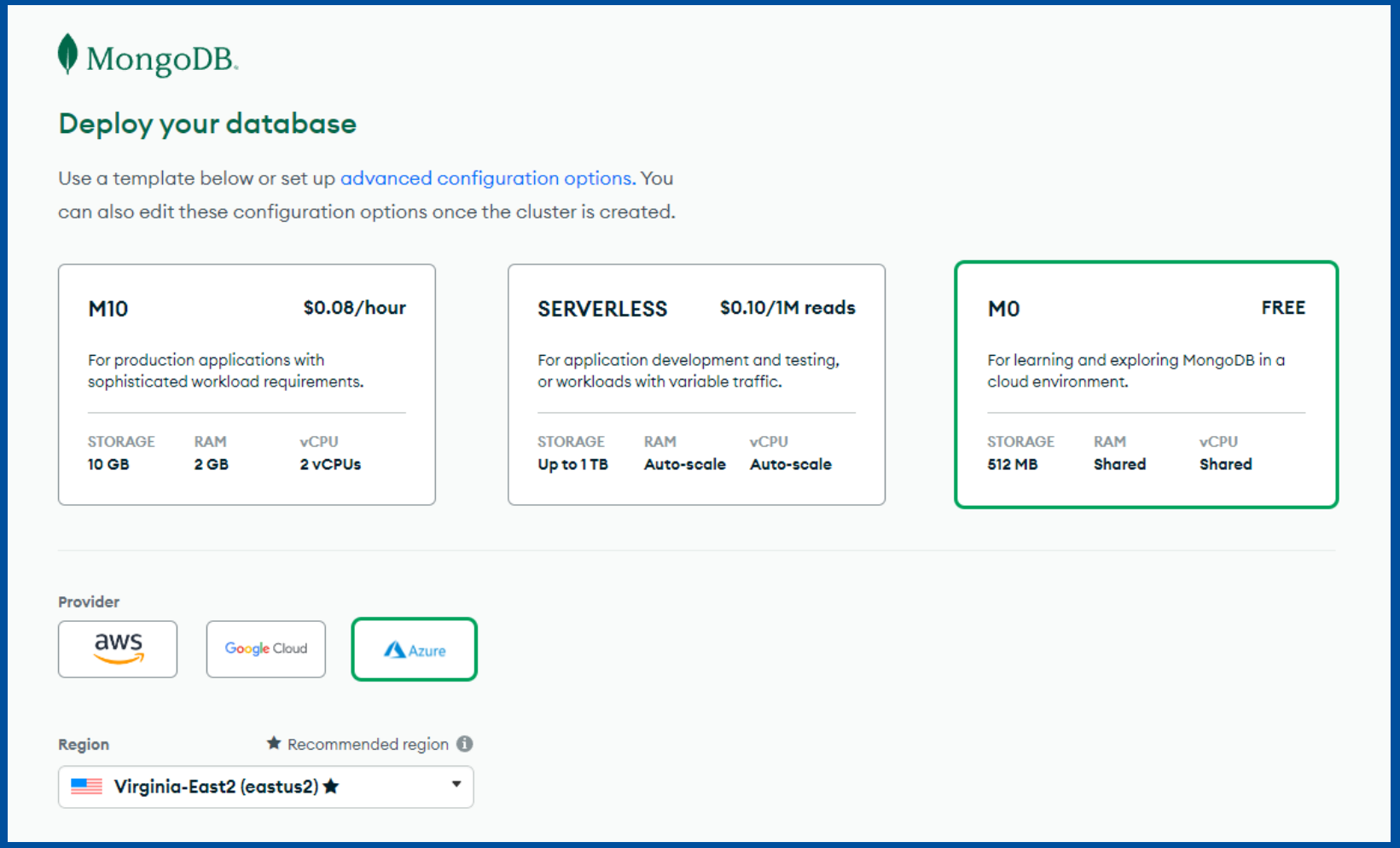
iv. Connect to you cluster (test).

MongoDB Atlas

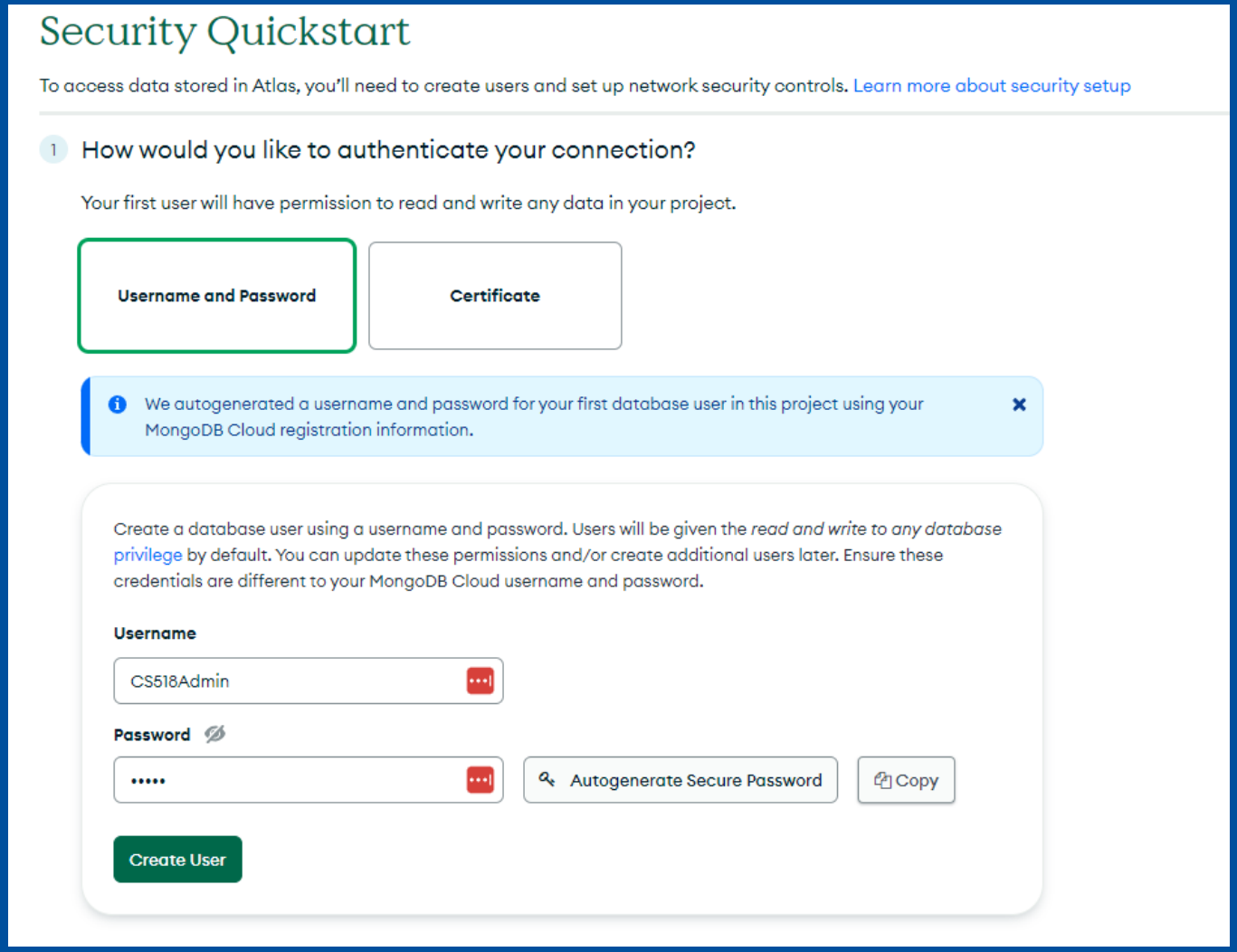
- ***MongoDB Atlas*** is a **fully-managed, cloud-based database service**. It is designed to simplify the process of deploying, managing and scaling MongoDB databases **in the cloud**.

- ***MongoDB Atlas*** **automates** many tasks associated with managing a database, patching, backup… It allows developers to **fully focus on building applications** rather than managing the underlying database infrastructure.

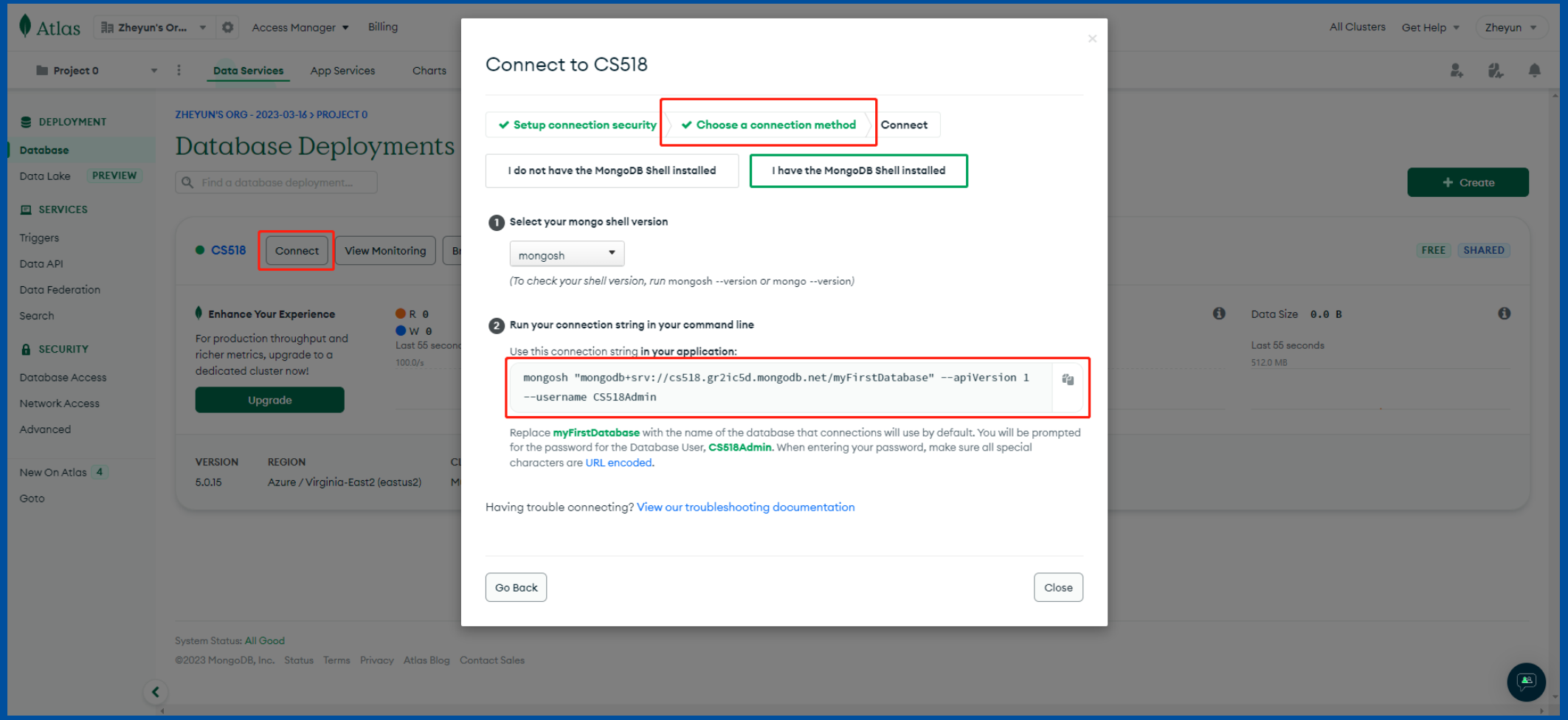
Deploy a free cluster



Deploy a free cluster (cont.)



Test the connection to your cluster



Test the connection (cont.)

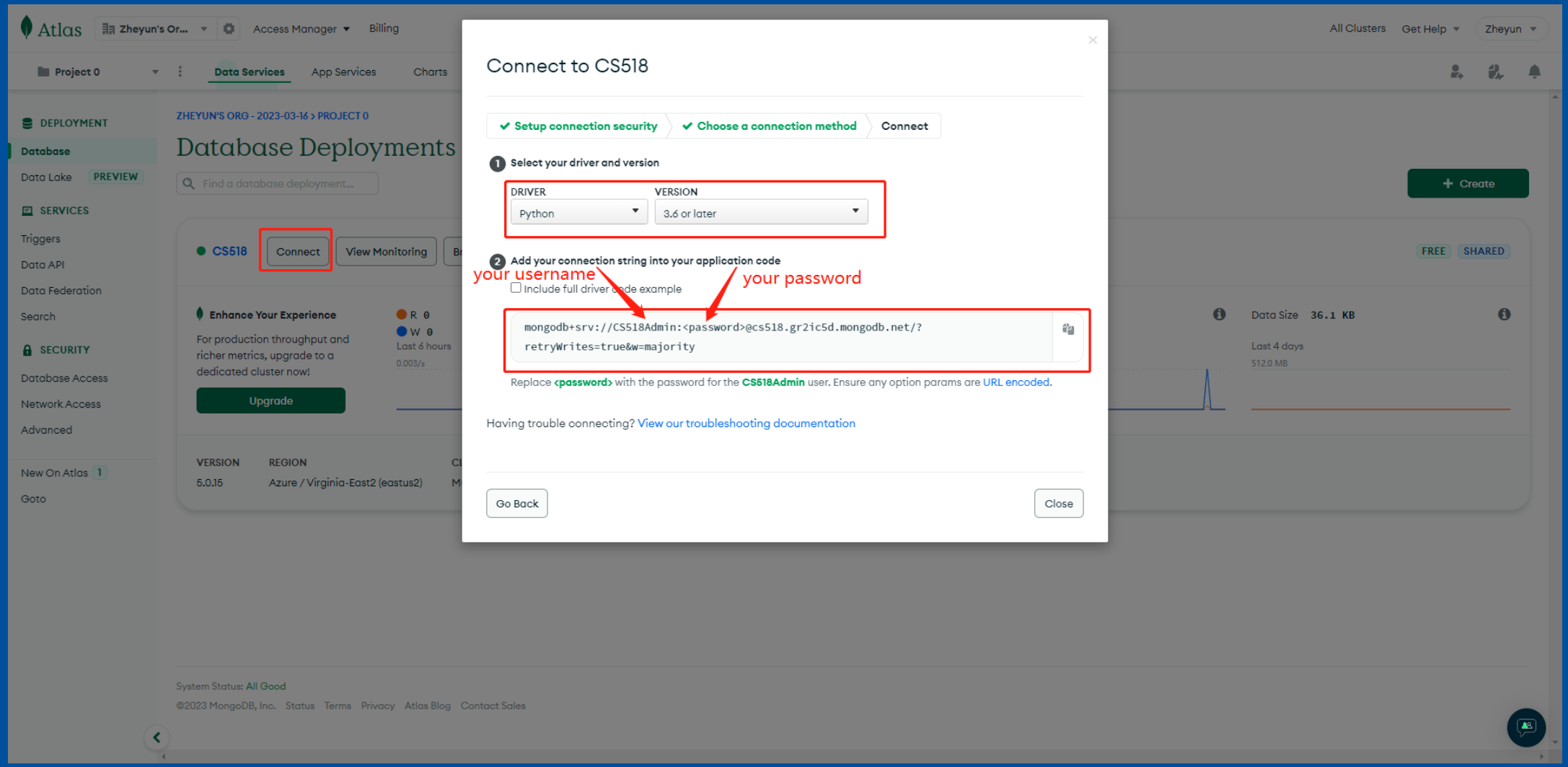
```
root🔮18.04[~] mongosh "mongodb+srv://cs518.gr2ic5d.mongodb.net/myFirstDatabase" --apiVersion 1 --username CS518Admin
Enter password: *****
Current Mongosh Log ID: 6413522c8e7e80a773cf47f1
Connecting to:          mongodb+srv://<credentials>@cs518.gr2ic5d.mongodb.net/myFirstDatabase?appName=mongosh+1.5.4
Using MongoDB:          5.0.15 (API Version 1)
Using Mongosh:          1.5.4

For mongosh info see: https://docs.mongodb.com/mongodb-shell/

Atlas atlas-sxlxa7-shard-0 [primary] myFirstDatabase> show tables

Atlas atlas-sxlxa7-shard-0 [primary] myFirstDatabase>
```

Find the connection string



Create supporting Azure resources

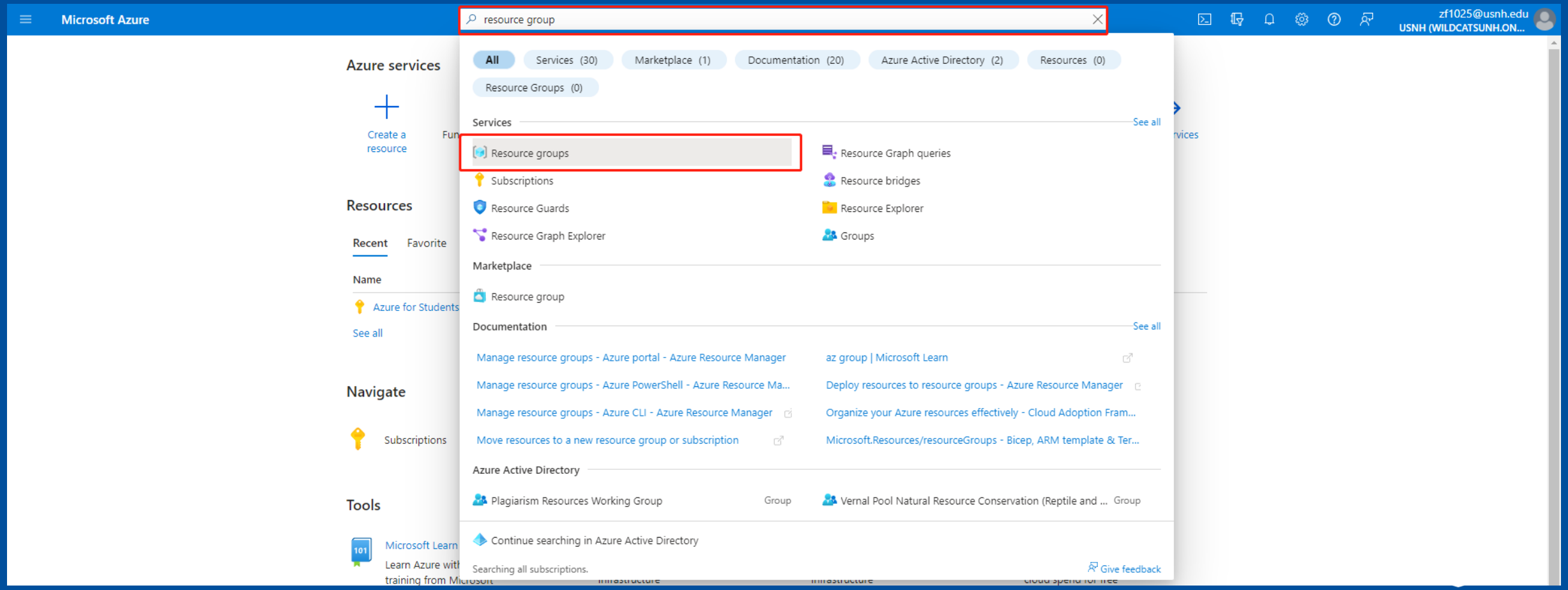
Follow the guidance **Create Azure resources for your function** in the lab handout.

i. Create a **resource group**, which is a logical container for related resources.

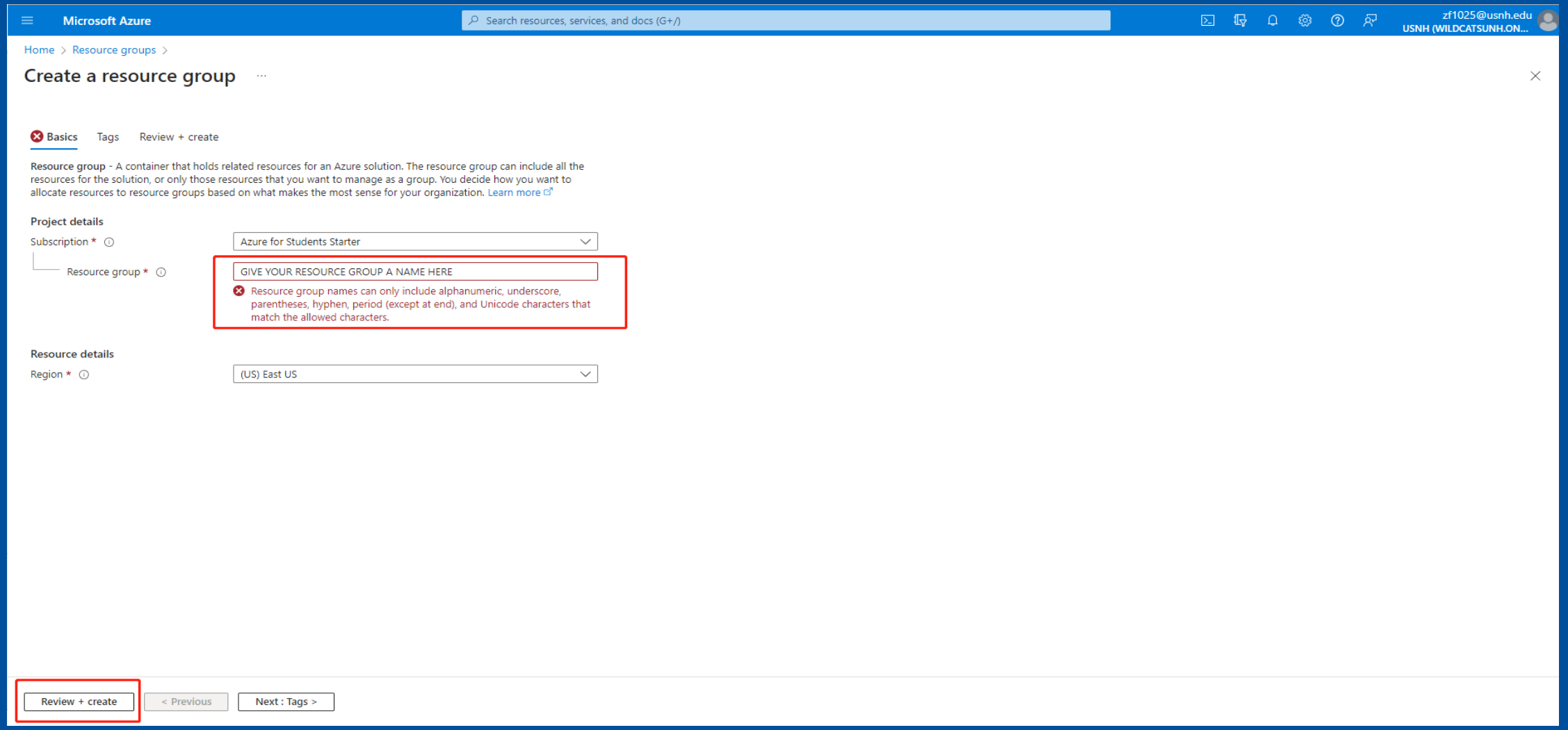
ii. Create a **storage account**, which maintains the state and other information about your projects.

iii. Create a **function app**, which provides the environment for executing your function code.

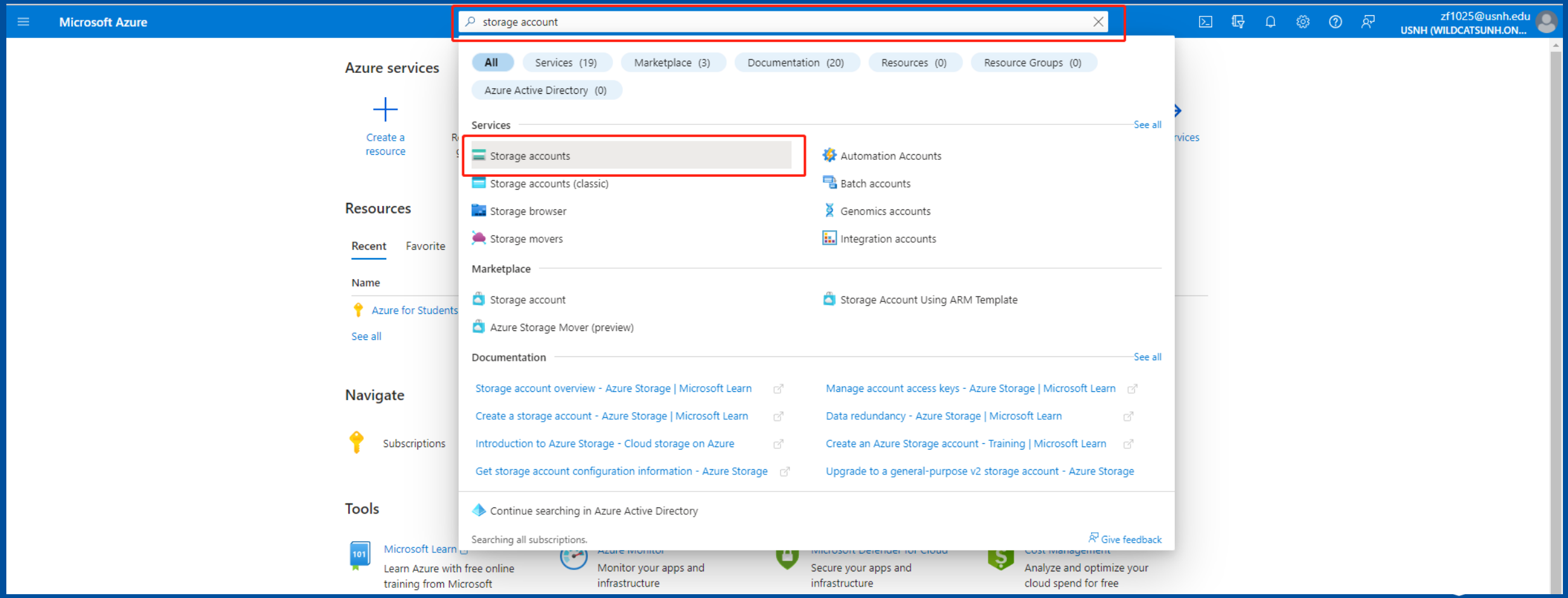
Create a resource group (Azure portal)



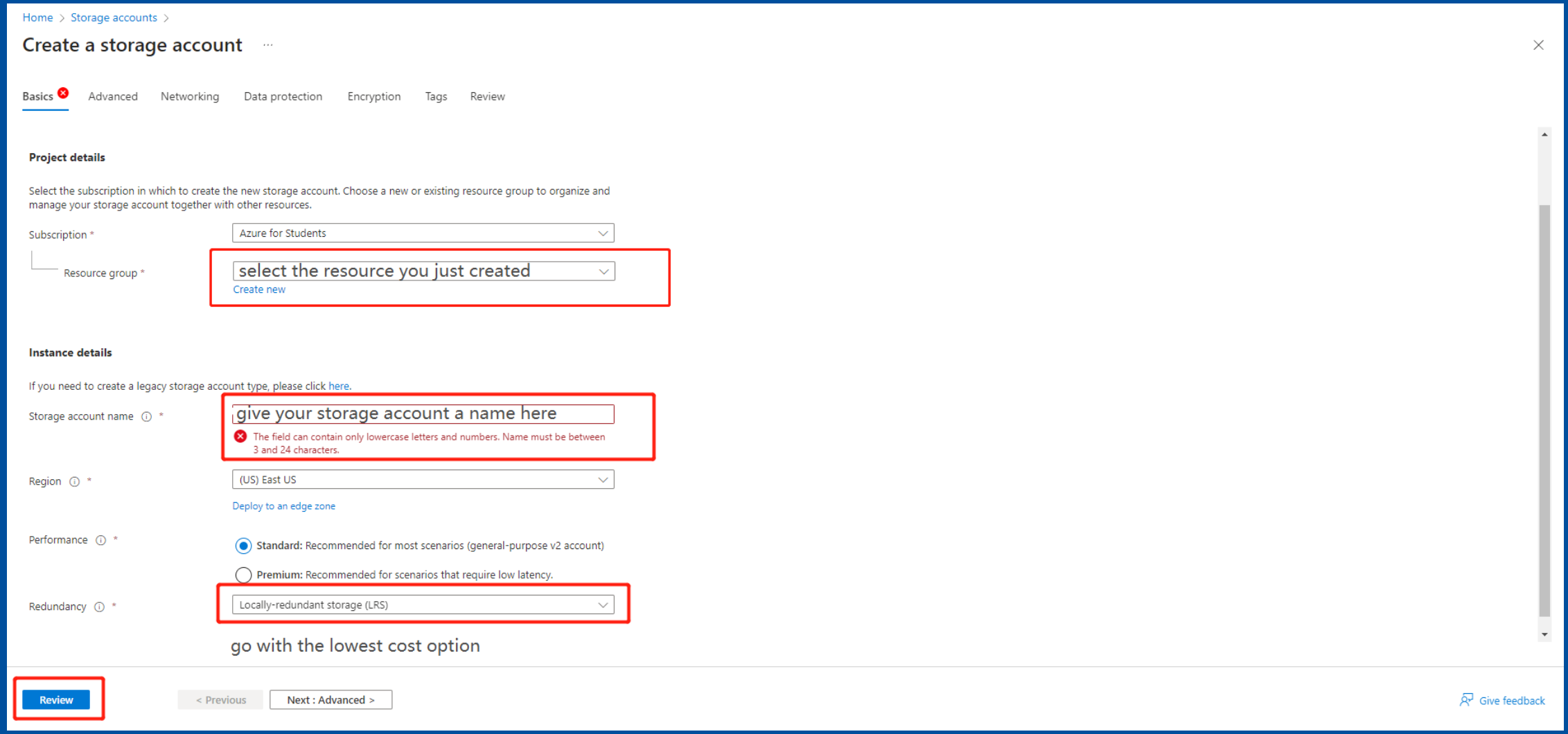
Create a resource group (cont.)



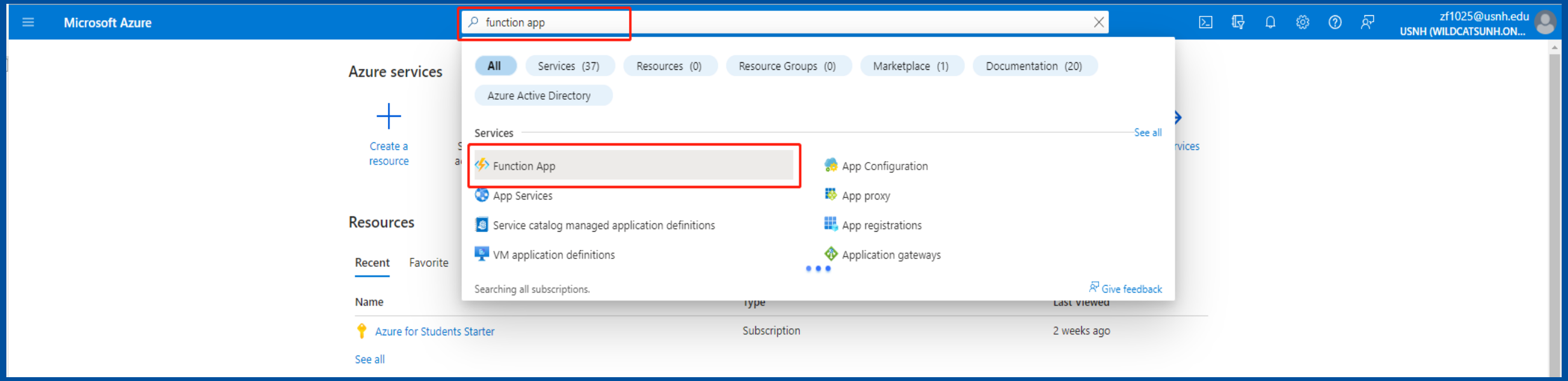
Create a storage account (Azure portal)



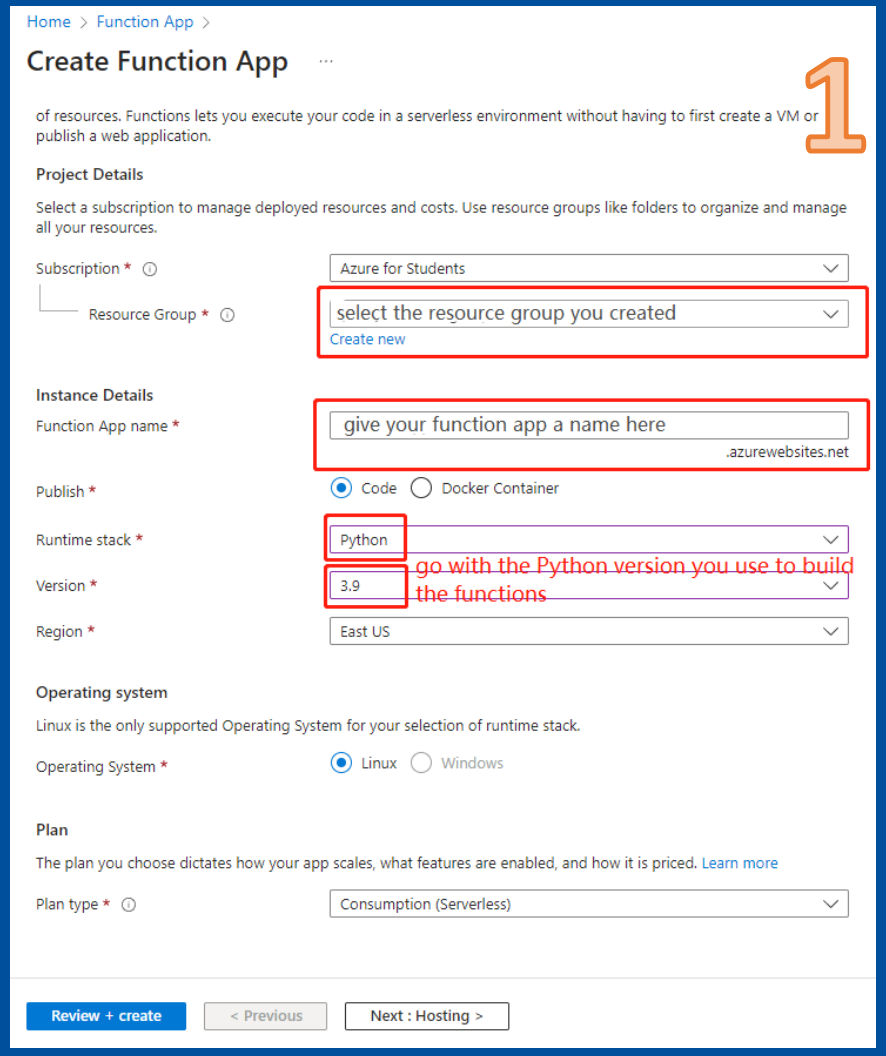
Create a storage account (cont.)

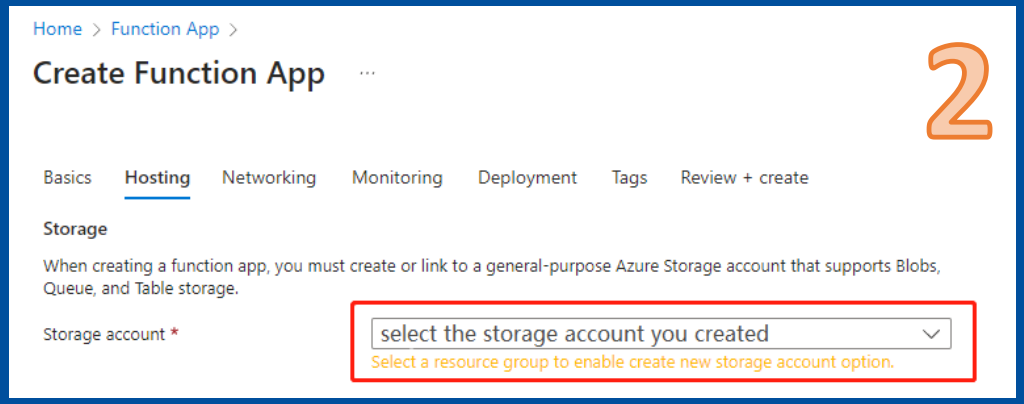


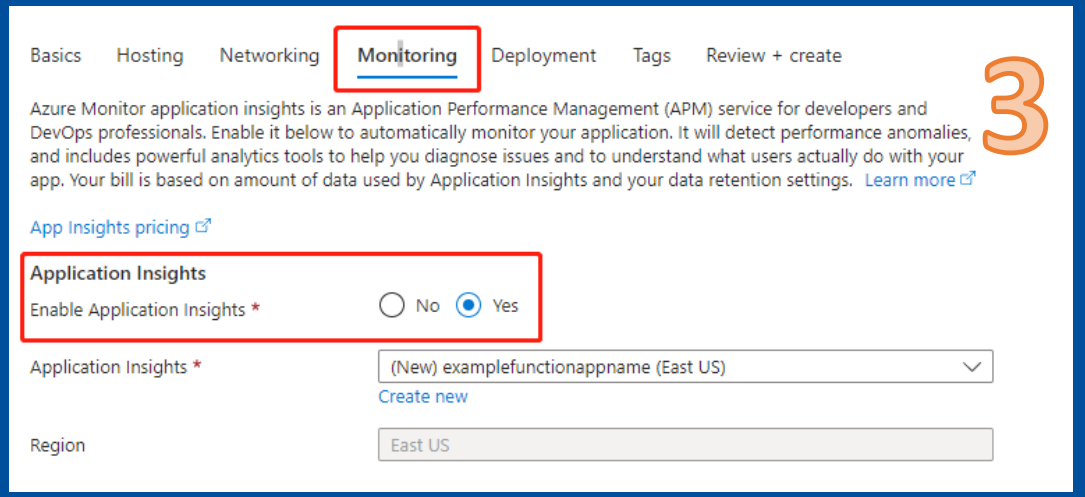
Create a function app (Azure portal)



Create a function app (cont.)







Deploy your functions to Azure

Follow the guidance **Deploy the function project to Azure** in the lab handout.

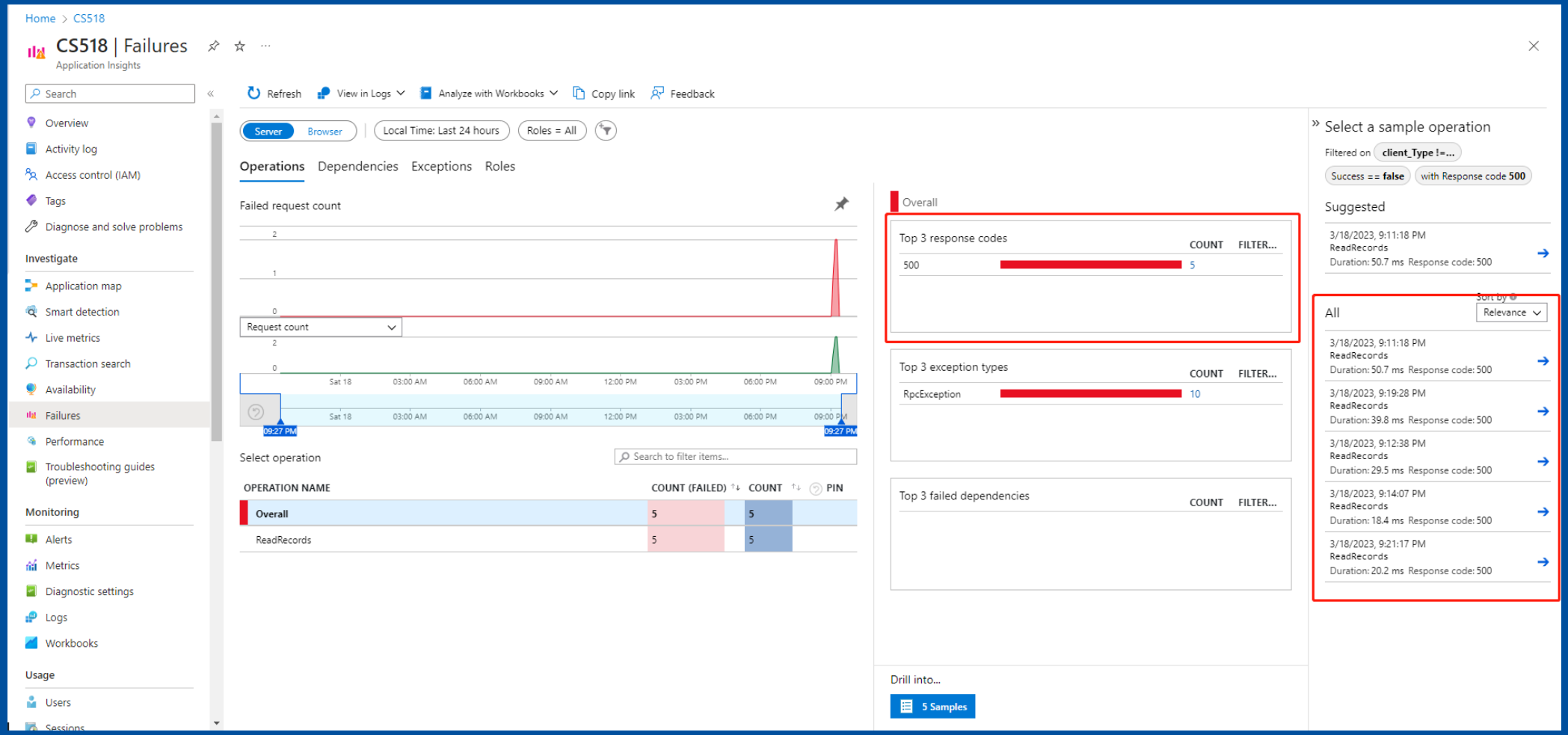
i. Do it at the function project level (**cd DataService/**)!

ii.

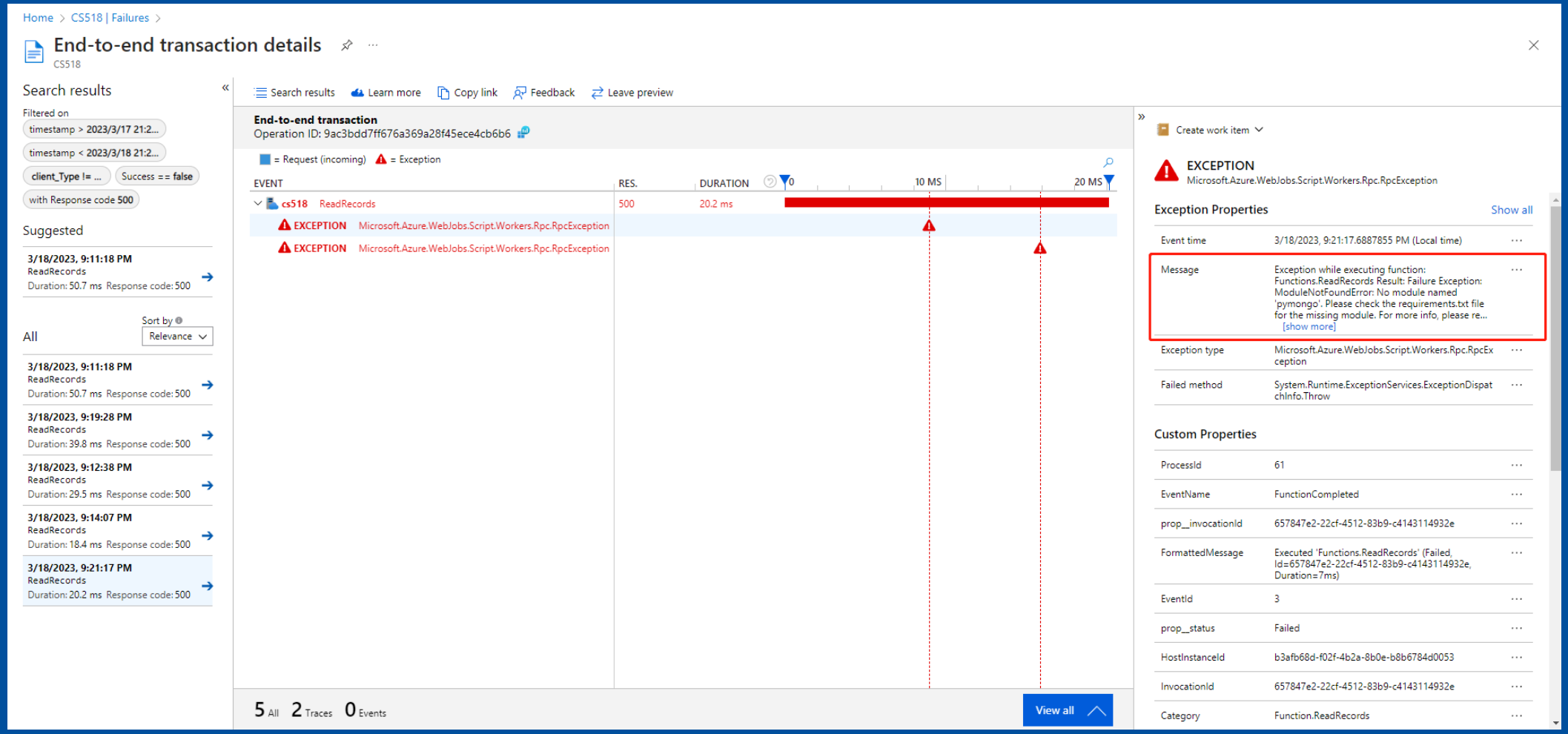
```
Deployment successful. deployer = Push-Deployer deploymentPath = Functions App ZipDeploy. Extract zip. Remote build.
Remote build succeeded!
Syncing triggers...
Functions in CS518:
    CreateRecord - [httpTrigger]
        Invoke url: https://cs518.azurewebsites.net/api/createrecord

    ReadRecords - [httpTrigger]
        Invoke url: https://cs518.azurewebsites.net/api/readrecords
```

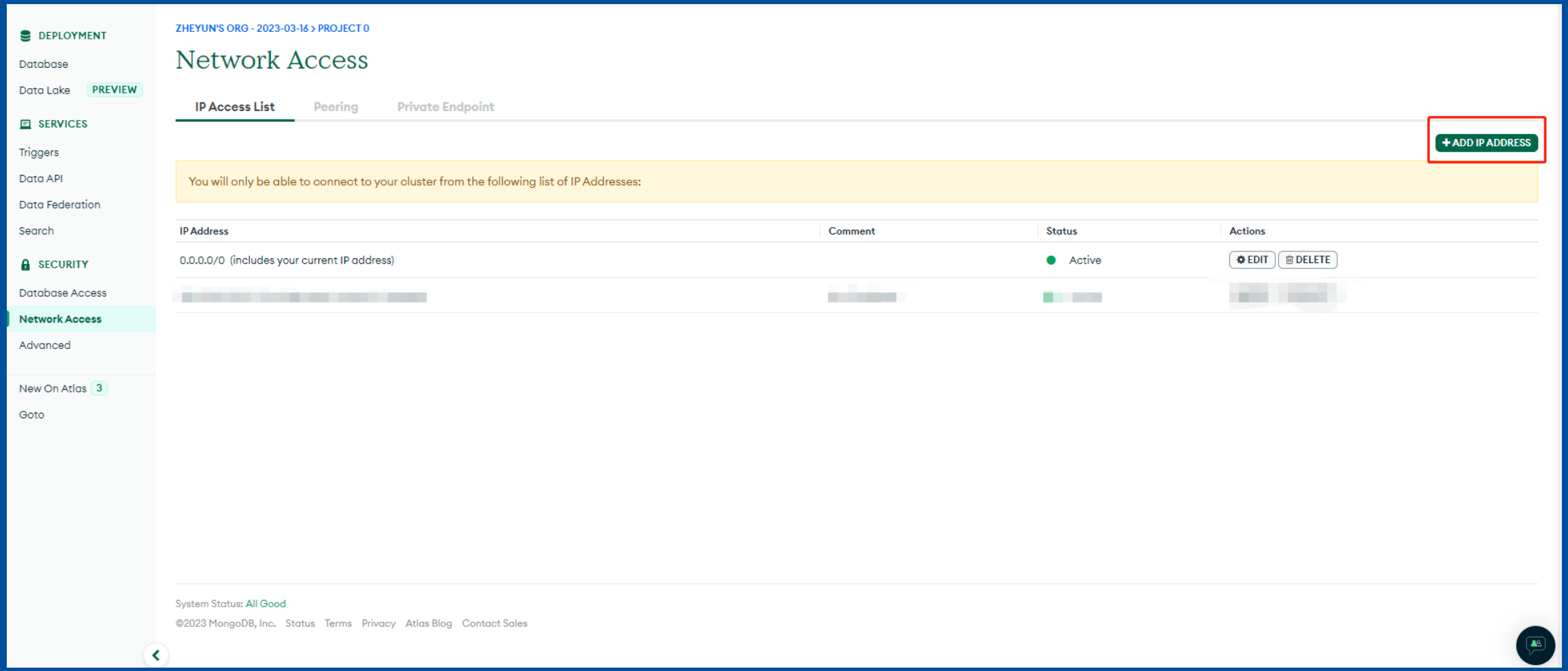
*Debug your functions



*Debug your functions (cont.)



Access to your cluster (in MongoDB Atlas)



Submission (due 3/28 11:59 p.m.)

- Canvas (**group** submission)

i. Deployed URL to CreateRecord (https://……./api/createrecord)

ii. Deployed URL to ReadRecords (https://……./api/readrecords)

- GitLab

i. Push your **DataService/** folder to GitLab

ii. CreateRecord/, ReadRecords/, data_manager.py, data_service_API_tests.py, all auto-generated config files (host.json, local.settings.json……)

More Questions?

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