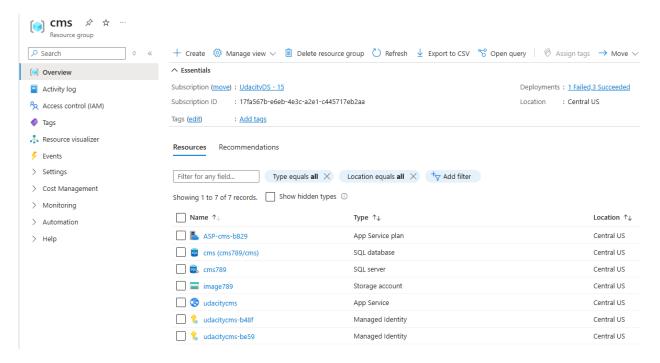
Project: Deploy An Article CMS to Azure

Leandro Roncoroni

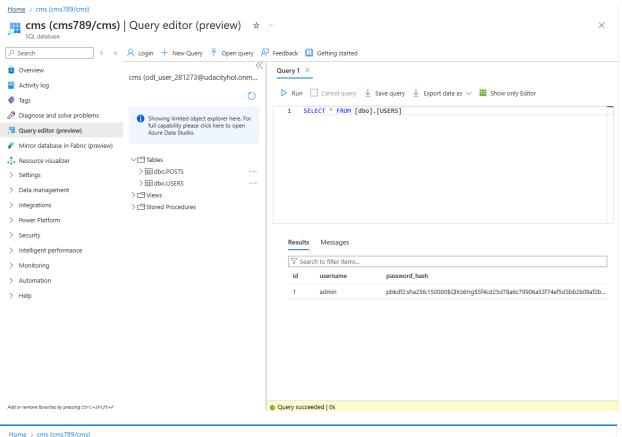
Resource Group

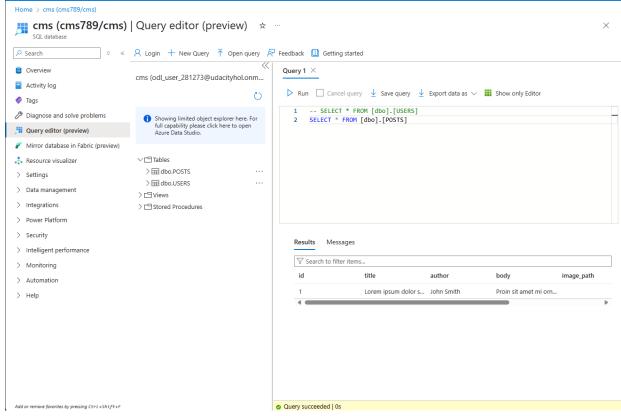
Provide a screenshot of the resource group in Azure, containing your running resources.



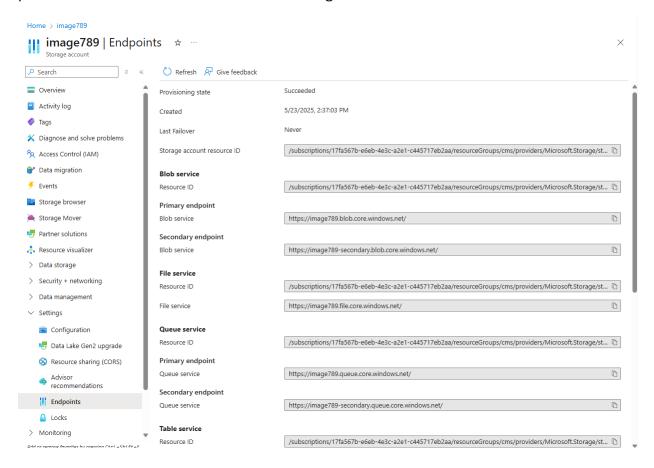
Storage

Provide a screenshot from your SQL database within Azure, showing that both the posts and users tables have been created. Alternatively, if the site is still live, provide the URL for the site.





Provide a screenshot from your Storage Account within Azure, with the blob storage endpoint URL visible (can be seen in "Settings"->"Properties"). Alternatively, if the site is still live, provide the URL for the CMS site to show images are able to be stored and viewed.



Resource Justification

In the provided writeup.md file, for **both** the VM and the App Service solution for the CMS app: Analyze costs, scalability, availability, and workflow

Ensure the write-up should include information on all four analysis points mentioned above for both VM and App Service.

Cost.

• Azure App Service: offers a tiered pricing (free in this case) with built-in scaling; abstraction of infrastructure management.

 Azure VM: Offers pay-as-you-go for compute, storage and bandwidth. Need to pay for OS licensing, patching and maintenance

Scalability

- Azure App Service: built-in auto-scaling, minimal configuration and fast scaling
- Azure VM: Manual scaling, full control over scaling process and slow scaling due to provisioning

Availability

- Azure App Service: built-in high availability, integrated disaster recovery
- Azure VM: requires setup, manual configuration for disaster recovery

Workflow

- Azure App Service: GH Actions, Azure DevOps. Azure handles platform updates.
 Built-in diagnostic and logging.
- Azure VM: Manual setup (SSH, FTP, CI/CD). Customer manages OS updates, patches and runtime and requires to setup monitoring.

Choose the appropriate solution (VM or App Service) for deploying the app and justify your choice. The justification should have at least 2-3 sentences on why you have chosen the VM or App Service.

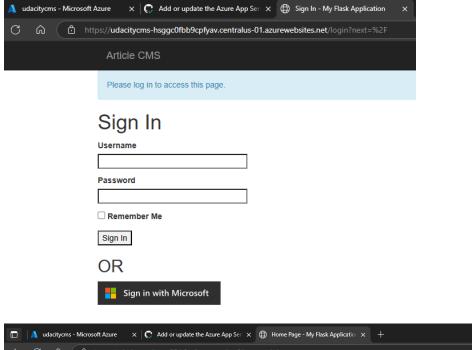
The solution chosen is Azure App Service, because of its ease of use, lower maintenance, and built-in scalability.

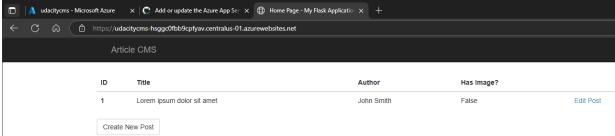
If there were any requirement for custom OS-level control, specialized libraries, or non-standard configurations, I woud go with Azure VM.

Deployment

The Python web app has been deployed to Azure using the chosen resource in the previous section.

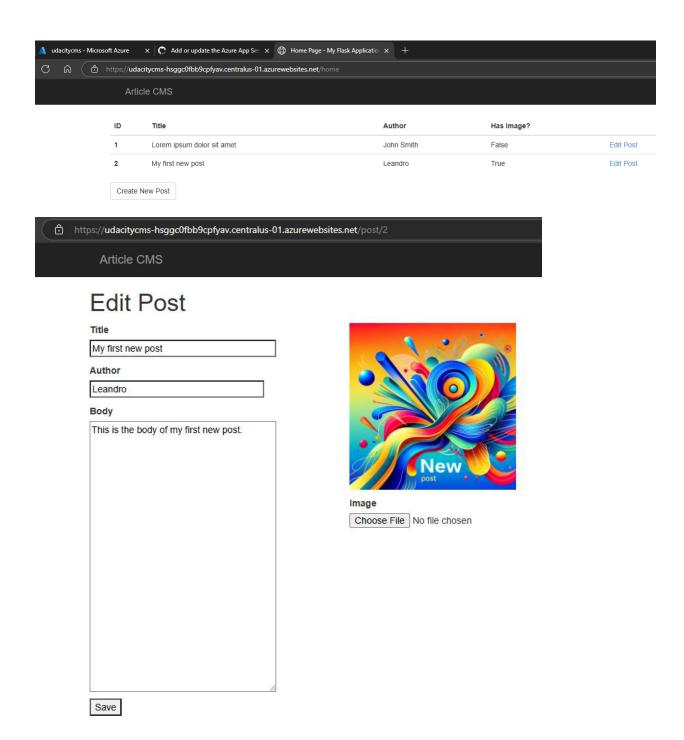
As evidence, provide a screenshot of the Python application running from a browser (this can be part of the screenshot in the next section). **The screenshot should include the URL and the black header that states "Article CMS".** Alternatively, you can provide a link to the deployed app, if it is still live.





The Python web app is able to connect to the related storage solutions.

As evidence, provide a screenshot of the Python application running from a browser. **The screenshot should include the URL and at least one article containing title, author, body, and an image.** Alternatively, you can provide a link to the deployed app, if it is still live.



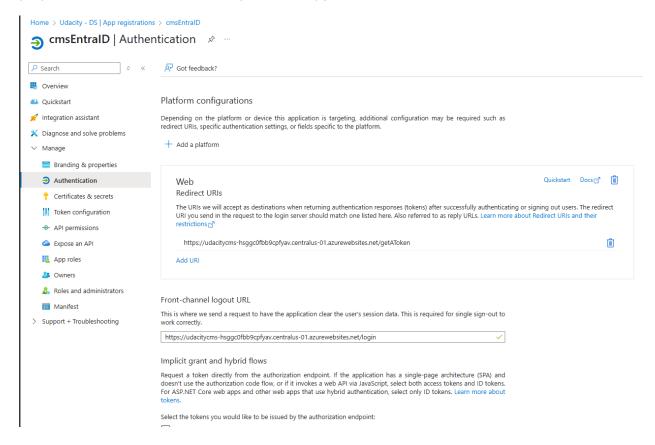
Security & Monitoring

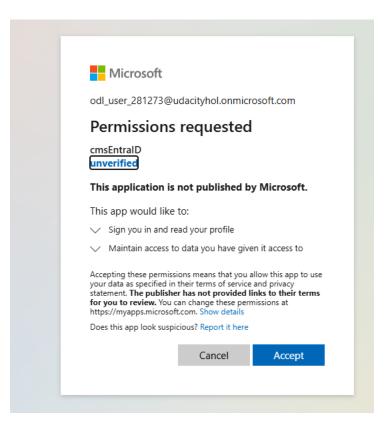
The Python web app has an additional, operational option to sign in with Microsoft.

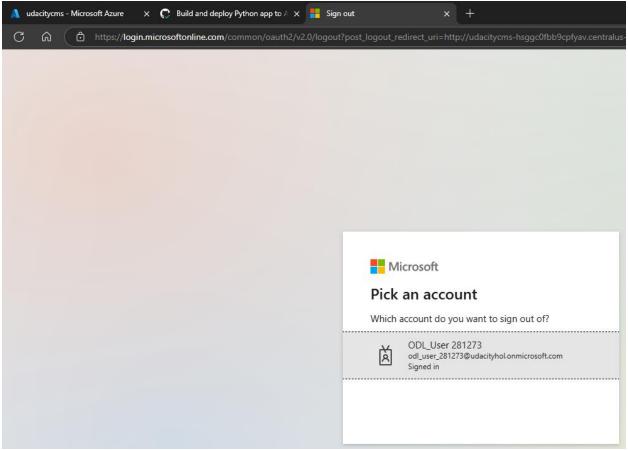
As evidence, provide a screenshot of the redirect URIs configured within the App Registration page in Azure. Alternatively, you can provide a link to the deployed app, if it is still live.

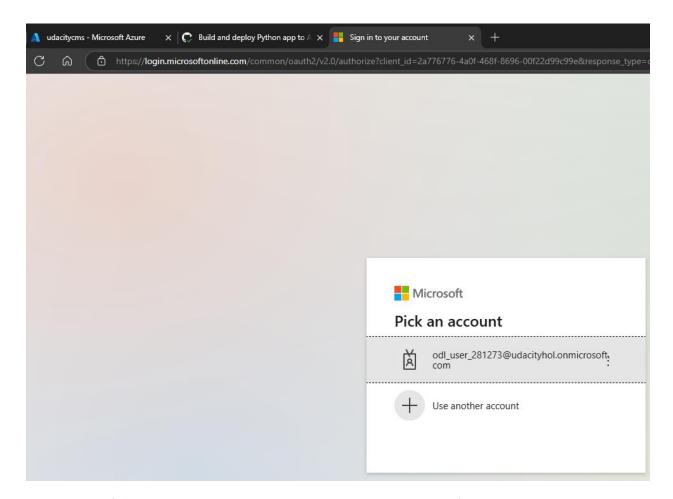
Additionally, your code in views.py should appropriately implement the Microsoft sign-in button using the msal library.

https://github.com/learonco/cd1756-Azure-Applications-project/blob/main/FlaskWebProject/views.py









https://udacitycms-hsggc0fbb9cpfyav.centralus-01.azurewebsites.net/

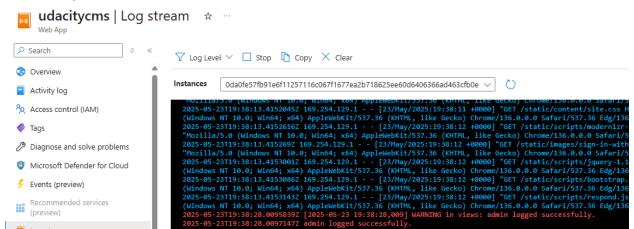
Both successful and unsuccessful attempts to access the web app are logged.

As evidence, provide a screenshot or download the logs from Azure containing at least one successful and one unsuccessful access attempt, and include them in your submission files. If otherwise submitting a URL, please include a link to screenshot/logs in the "Submission Details" box on the project submission page.

Hint: Share the screenshots where logs show the successful and failed login attempts. You can share Azure Portal logging, localhost terminal logs, or logs in Azure storage account.



Log stream



2025-05-23T19:38:28.0097147Z admin logged successfully. 2025-05-23T19:38:28.0166091Z 169.254.129.1 - - [23/May/2025:19:38:28 +0000] "POST /login HTTP/1.1" 302 216

