

Meet Specifications

Site: <https://tannv-article-cms-project.azurewebsites.net>

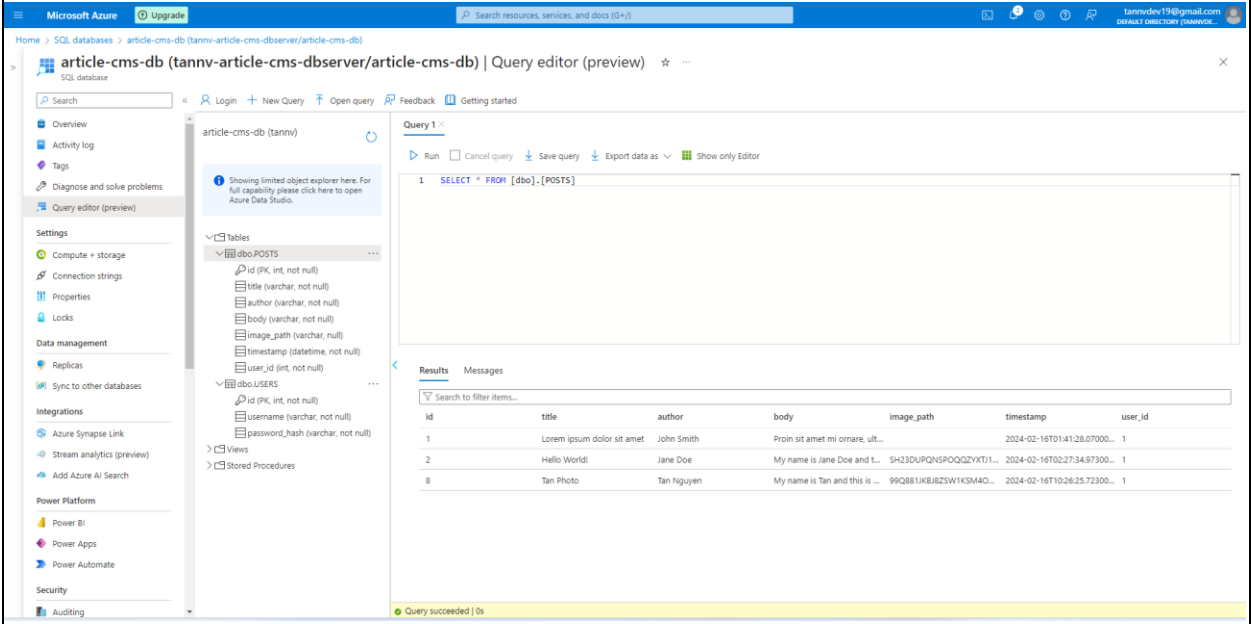
Resource Group

CRITERIA	MEETS SPECIFICATIONS
All relevant resources are contained in a single resource group.	The resource group must include a Storage Account, SQL Server, SQL Database, as well as any relevant services for deploying the web app. Provide a screenshot of the resource group in Azure, containing your running resources.

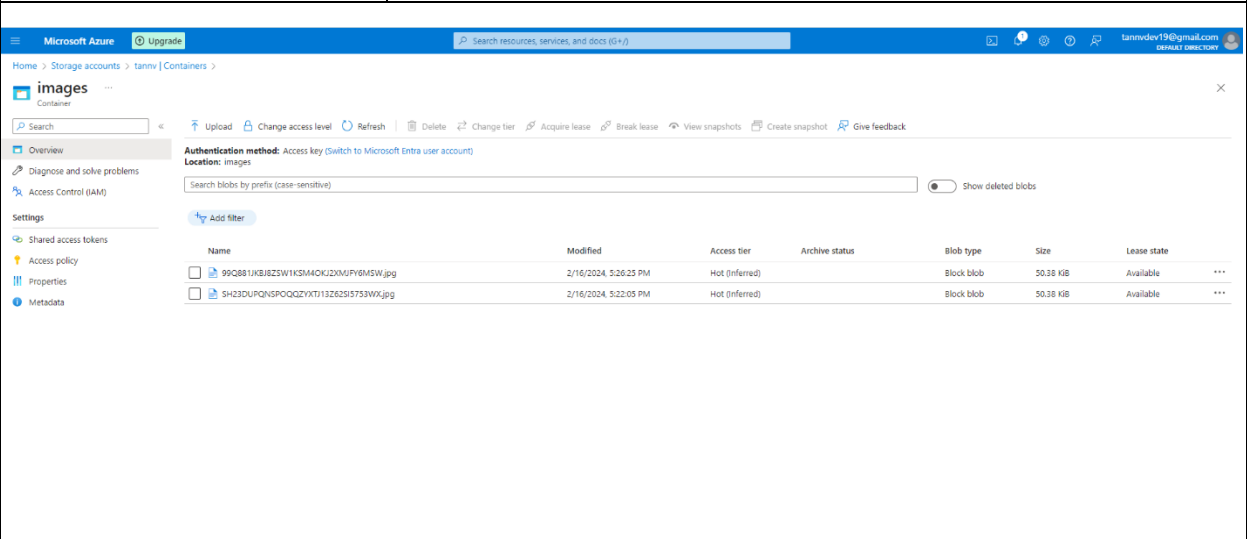
The screenshot shows the Azure portal interface for the resource group 'tannv-article-cms-resource'. The left sidebar contains navigation links for Overview, Activity log, Access control (IAM), Tags, Resource visualizer, Events, Settings, Deployments, Security, Deployment stacks, Policies, Properties, Locks, Cost Management, Cost analysis, Cost alerts (preview), Budgets, Advisor recommendations, Monitoring, Insights (preview), Alerts, Metrics, and Diagnostic settings. The main content area shows the 'Essentials' section with the subscription ID 'daef1c8-6299-4b9d-ac44-cd38465997e8' and location 'Australia East'. Below this, the 'Resources' section displays a table of resources:

Name	Type	Location
article-cms-db (tannv-article-cms-observer/article-cms-db)	SQL database	East Asia
ASP-tannvarticlecmsresource-b5df	App Service plan	Southeast Asia
tannv	Storage account	Australia East
tannv-article-cms-id-91fd	Managed identity	Southeast Asia
tannv-article-cms-observer	SQL server	East Asia
tannv-article-cms-project	App Service	Southeast Asia

Storage

CRITERIA	MEETS SPECIFICATIONS
Create and add article data to a SQL Server in Azure.	<p>A SQL Server is created in Azure and is capable of storing the necessary article data (title, author, body).</p> <p>Provide a screenshot from your SQL database within Azure, showing that both the POST and USER tables have been created. Alternatively, if the site is still live, provide the URL for the site.</p>
	

CRITERIA	MEETS SPECIFICATIONS
Create and upload images to a Storage Account.	<p>A Storage Account is created in Azure and is capable of storing the necessary image data for the article.</p> <p>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.</p>



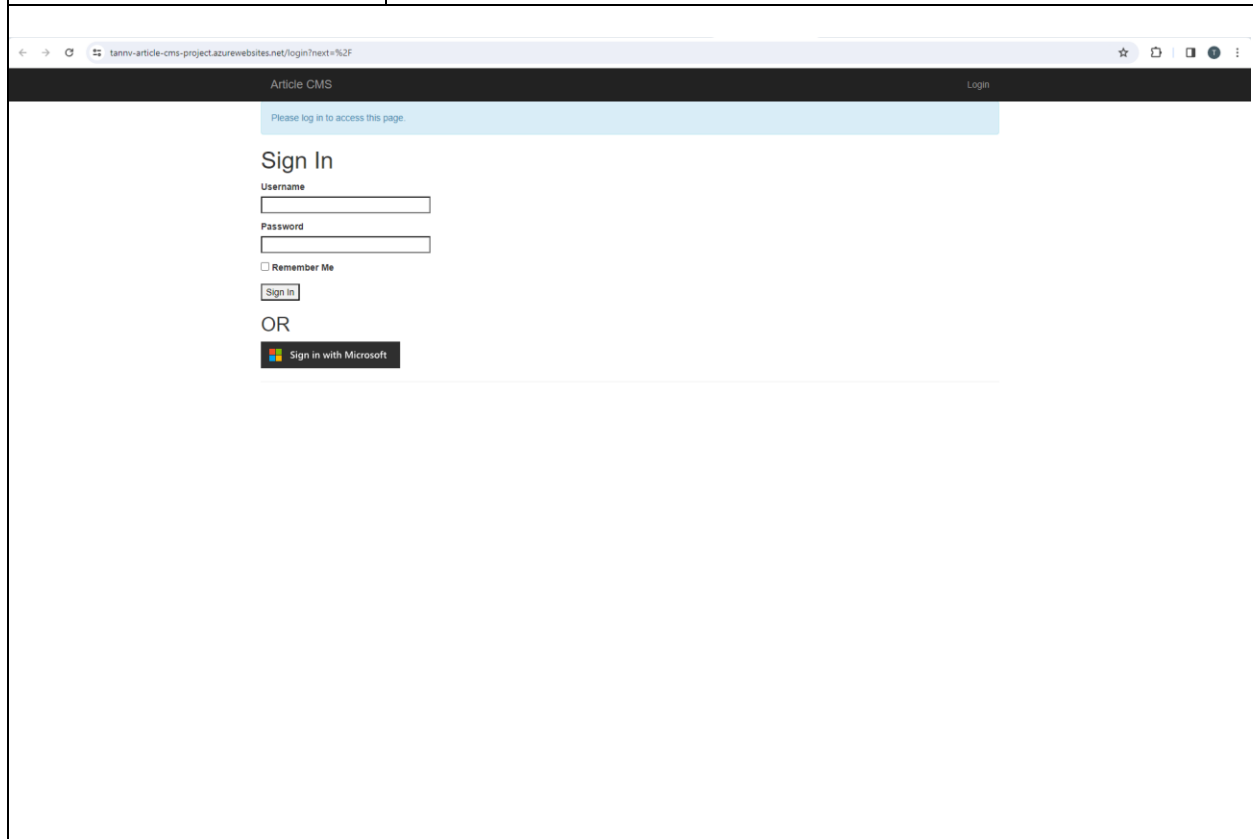
Resource Justification

CRITERIA	MEETS SPECIFICATIONS
Analyze, choose, and justify the appropriate resource option for deploying the app.	<p>In the provided writeup.md file, for both a VM or App Service solution for the CMS app:</p> <ul style="list-style-type: none">• Analyze costs, scalability, availability, and workflow• Choose the appropriate solution (VM or App Service) for deploying the app• Justify your choice <p>This does not need to be substantially long, but should include information on all four analysis points for each option, your choice, and at least 2-3 sentences on why you choose that option.</p>
<p>I choosing a web app service over a virtual machine. Cost-wise, this project is small application and low traffic count so use app service would us saving cash, better for virtual machine is fixed cost based on allocated resources. Regarding scalability, this project is small in scale so if traffic increases it will not be significant. App Service will automatically scale up/down based on traffic, better for virtual machines that require manual scaling or use more complex VM scalers. High availability is built-in, so your users enjoy consistent uptime. And when it comes to scaling, the web app adapts to your needs effortlessly, avoiding the manual VM configuration struggles. The seamless integration with your GitHub repository allows for effortless deployment with just a few clicks. This streamlines your workflow significantly compared to the cumbersome setup and configuration of a VM. Furthermore, the web app service excels in simplicity and speed. Based on the costs, scalability, availability, and workflow analysis I chosed the web app service to deploy for my project article.</p>	

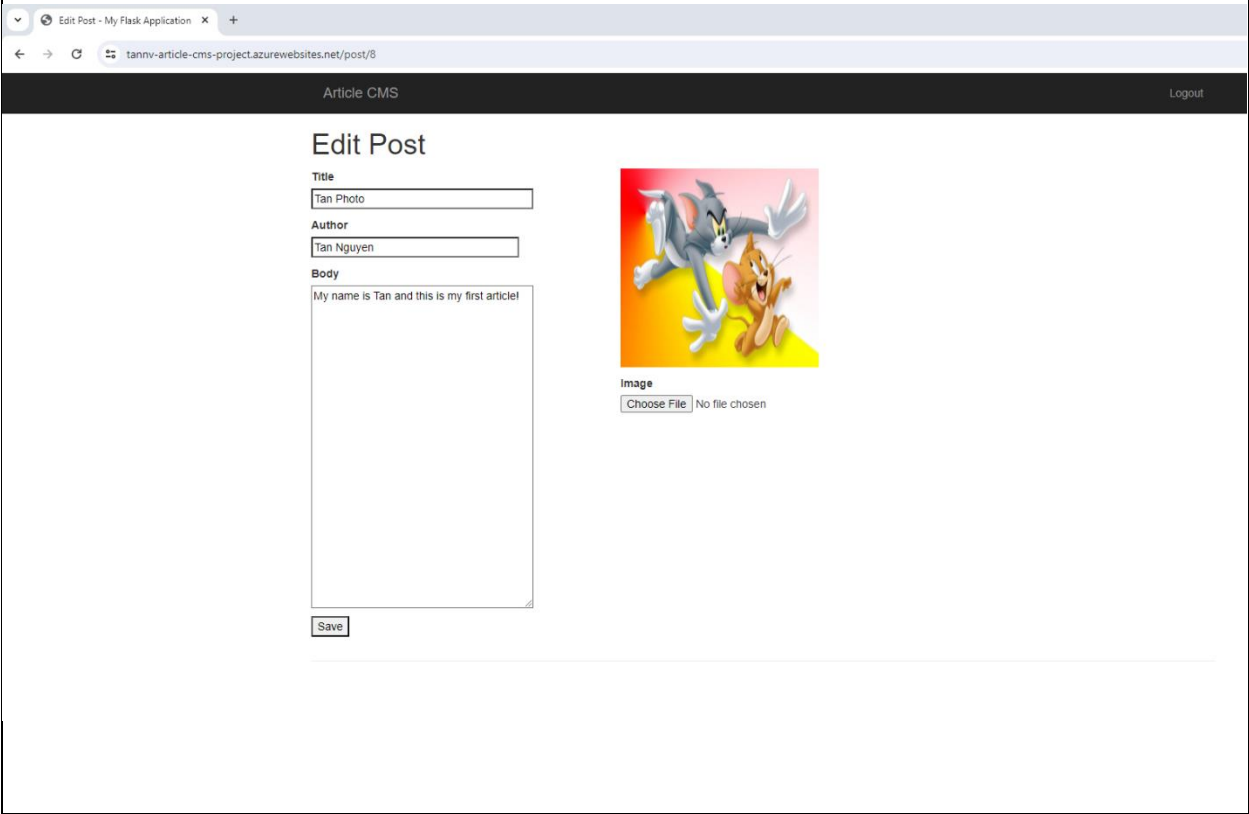
CRITERIA	MEETS SPECIFICATIONS
<p>Assess app changes that would change your decision.</p>	<p>In the provided writeup.md file, detail how the app and any other needs would have to change for you to change your decision in the last section.</p> <p>This should be at least 2-3 sentences, but feel free to add as much detail as you feel necessary.</p>
<p>I would choose virtual machine when security requirements is for specific compliance needs or highly sensitive data, VM can provide deeper control over security configurations. Regarding scalability, the app service is good to choose if traffic increases it will not be significant , but significantly high or unpredictable traffic spikes the app service cannot be managed, VM might offer more granular control over scaling. Regarding complexity, if this project involves complex processing, machine learning, or custom software dependencies, VM might provide more flexibility. However, keep in mind the cost, management complexity when using virtual machine. If the above happens. I will change my decision about using a virtual machine.</p>	

Deployment

CRITERIA	MEETS SPECIFICATIONS
The Python web app is deployed to Azure.	<p>The Python web app has been deployed to Azure using the chosen resource in the previous section.</p> <p>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.</p>

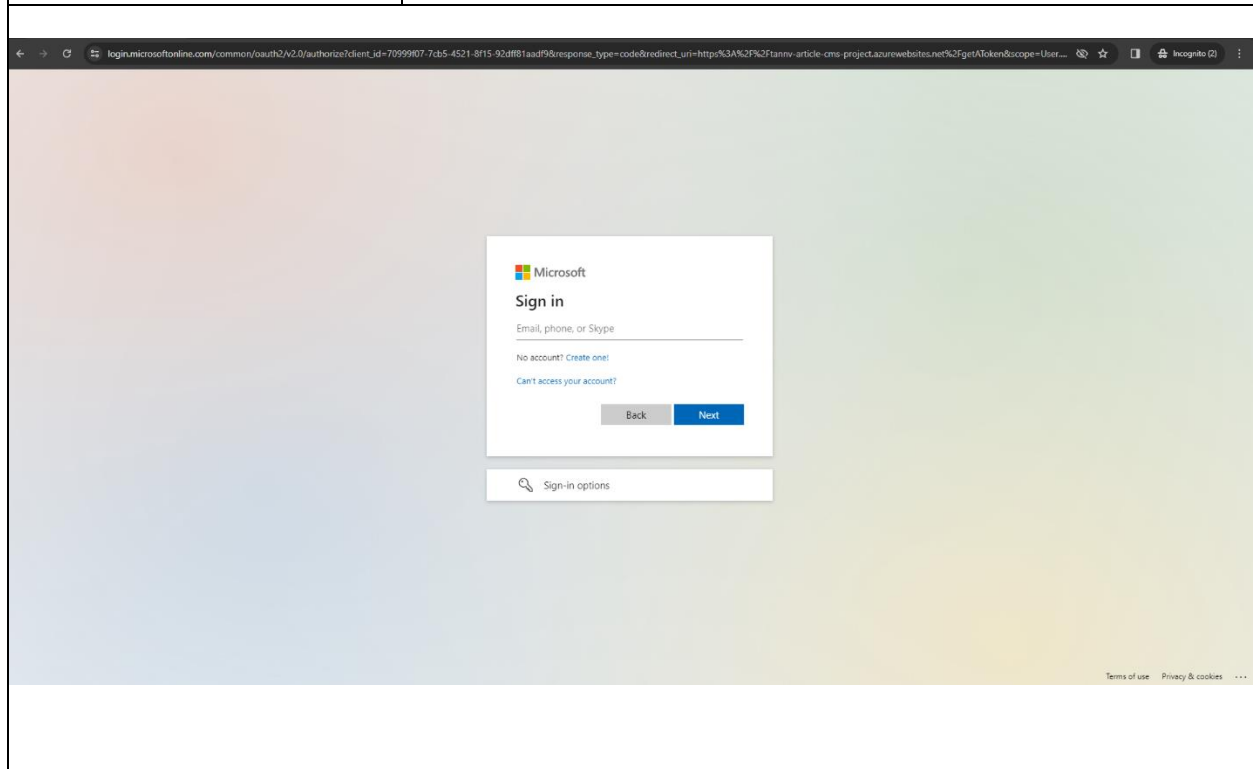


CRITERIA	MEETS SPECIFICATIONS
The Python web app is able to connect to storage.	<p>The Python web app is able to connect to the related storage solutions.</p> <p>As evidence, provide a screenshot of the Python application running from a browser. The screenshot should include the URL and at least one article containing title, author, body, and an image. Alternatively, you can provide a link to the deployed app, if it is still live.</p>



Security & Monitoring

CRITERIA	MEETS SPECIFICATIONS
Add a functioning “Sign in with Microsoft” option to the app.	<p>The Python web app has an additional, operational option to sign in with Microsoft.</p> <p>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.</p> <p>Additionally, your code in <code>views.py</code> should appropriately implement the Microsoft sign-in button using the <code>msal</code> library.</p>



CRITERIA	MEETS SPECIFICATIONS
<p>Access attempts to the app are logged.</p>	<p>Both successful and unsuccessful attempts to access the web app are logged.</p> <p>As evidence, provide a screenshot or download the logs from Azure containing at least one successful and one unsuccessful access attempt, and include 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.</p>

