	Compte Rendu de Travaux Pratiques

Compte Rendu - Travaux Pratiques En Cloud & Virtualisation

Filière : Réseaux Informatiques & Télécommunications
Niveau : 4ème Année

Sujet :

TP5 : Web app, Function app and Logic app

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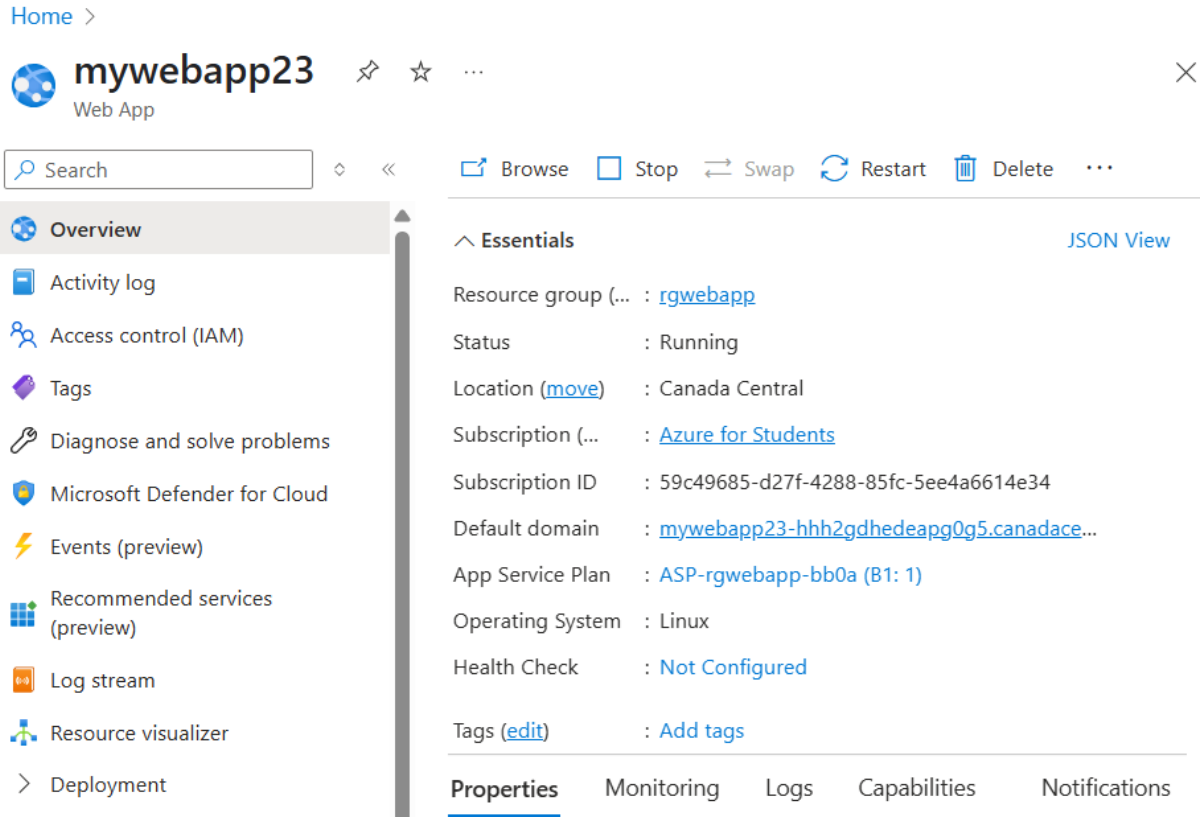
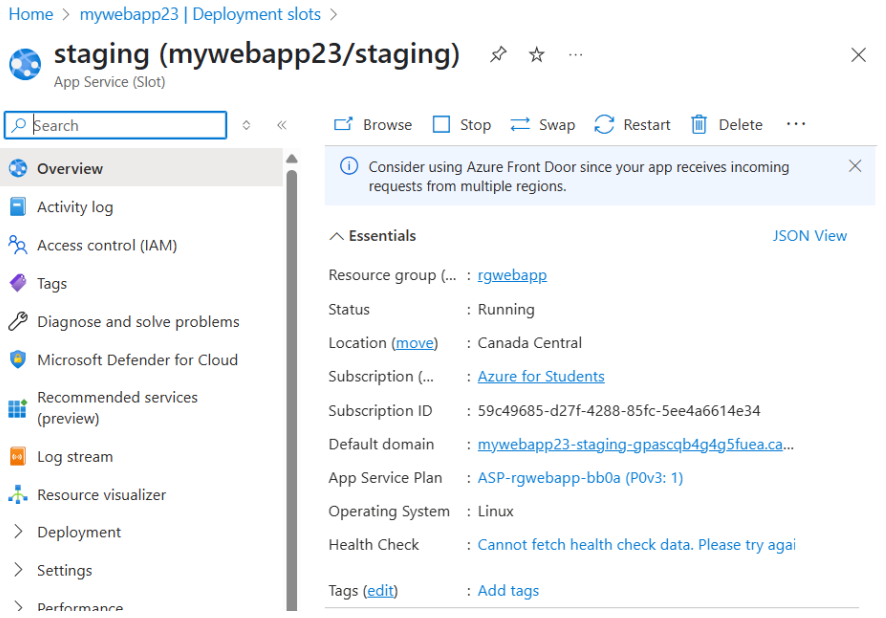
TASK 01

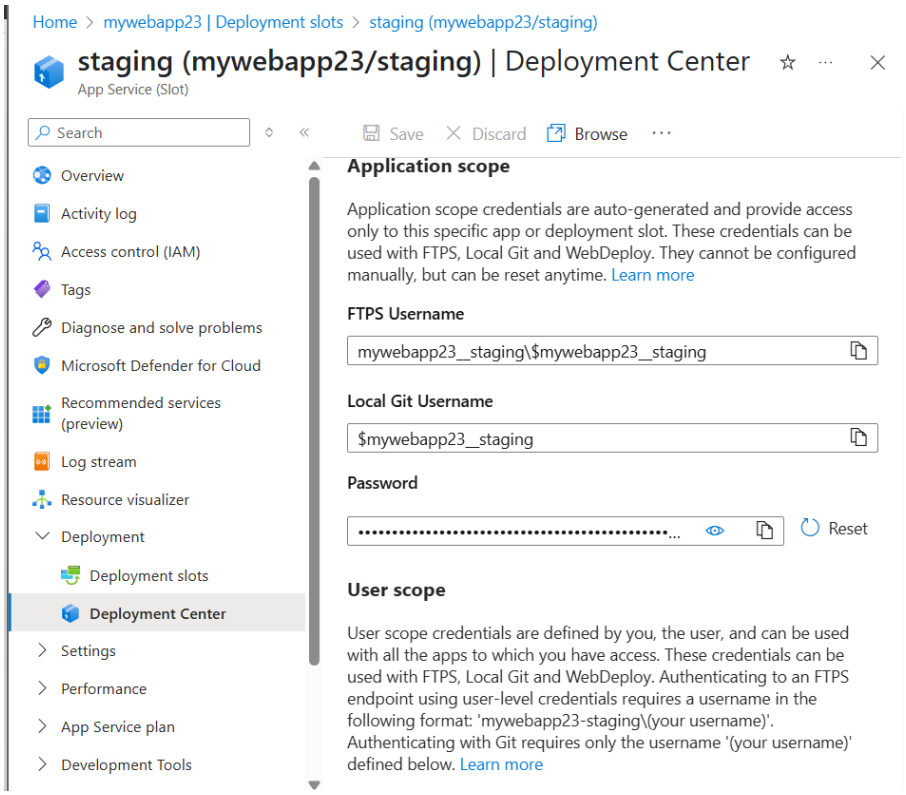
1. We created an Azure Web App with the PHP runtime in the App Services section. This is used to host and run PHP-based web applications in a managed Azure environment.



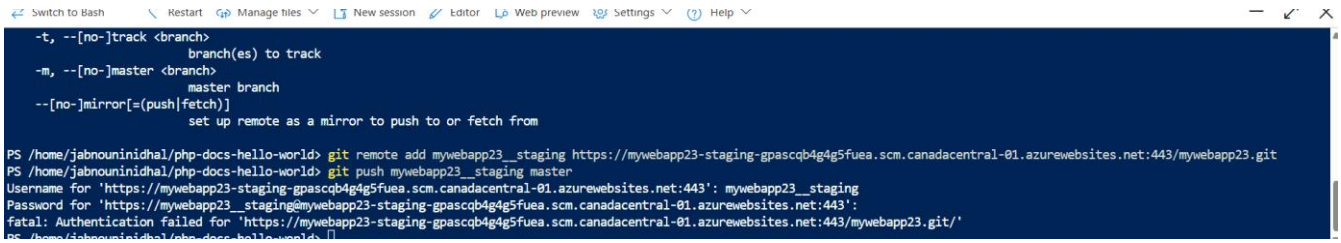
2. We created a staging deployment slot without cloning settings. This is used to deploy and test new versions of the app in isolation before moving them to production.

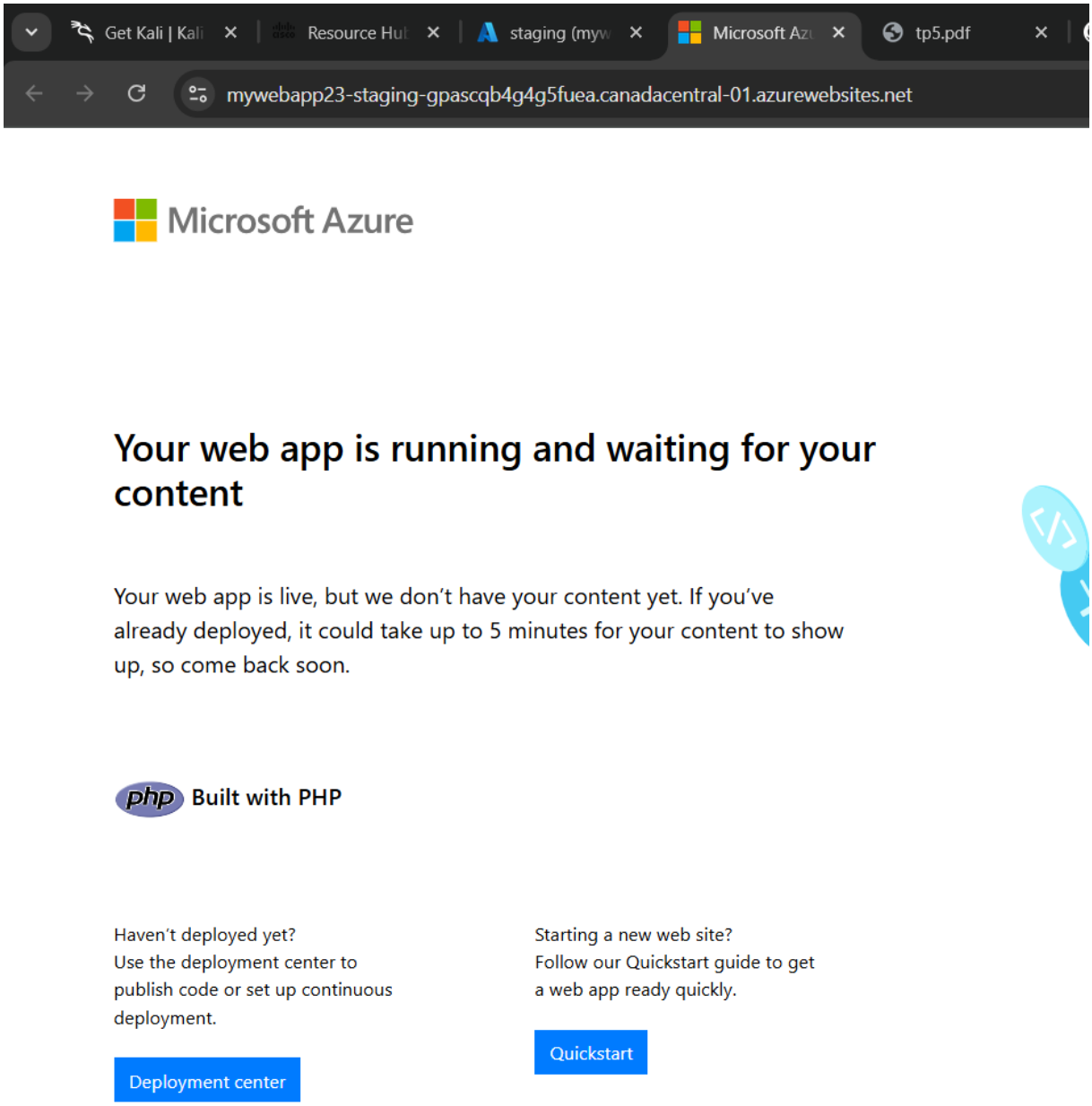


3. We configured deployment settings on the staging slot by enabling Local Git as the source and setting credentials. This allows us to push code directly from a local Git repository to the staging environment.

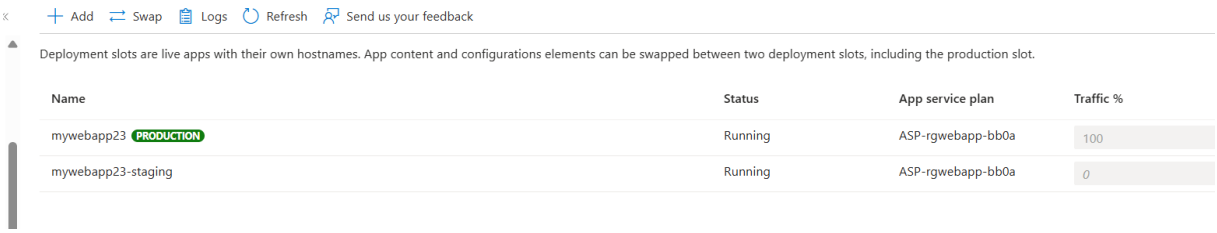


4. We cloned a sample PHP app, added a Git remote pointing to the staging slot, and pushed the code using Git. This deploys the Hello World web app to the staging environment, verifying deployment configuration.





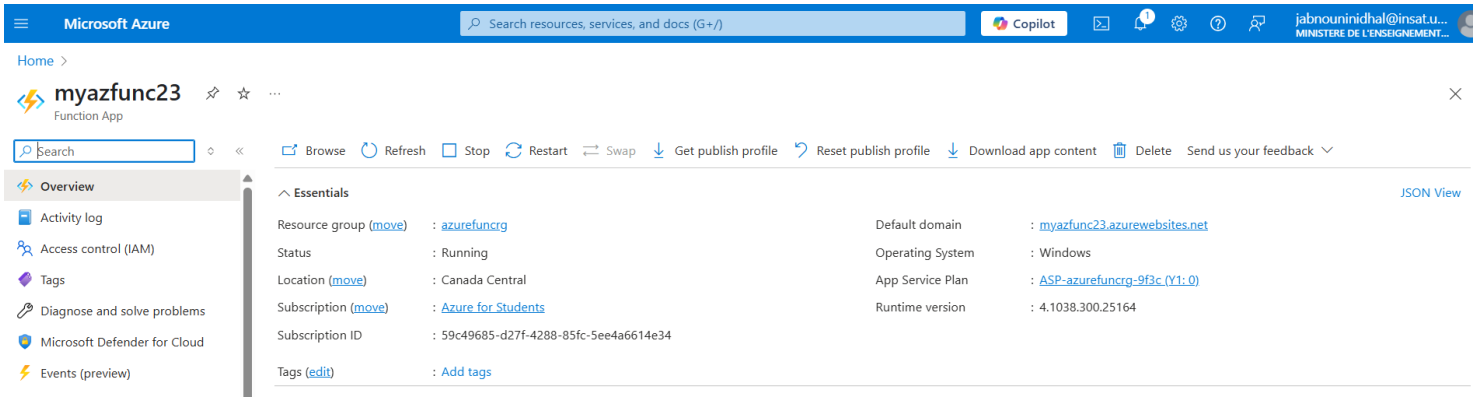
5. We swapped the staging and production slots. This allows us to promote the tested version of the app to production with zero downtime and easy rollback if needed.



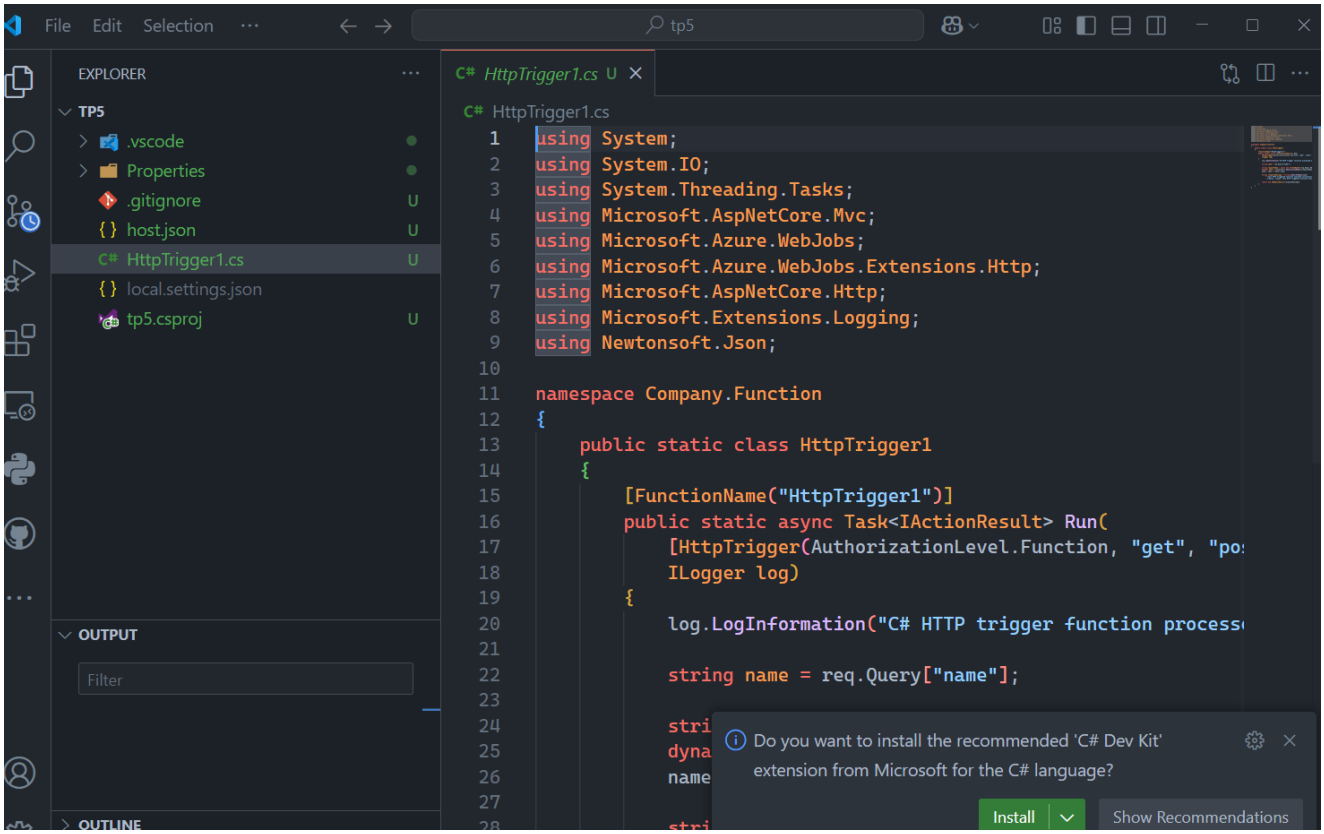
7. We cleaned up the resources by deleting the resource group. This is used to avoid unnecessary charges and maintain a tidy Azure environment.

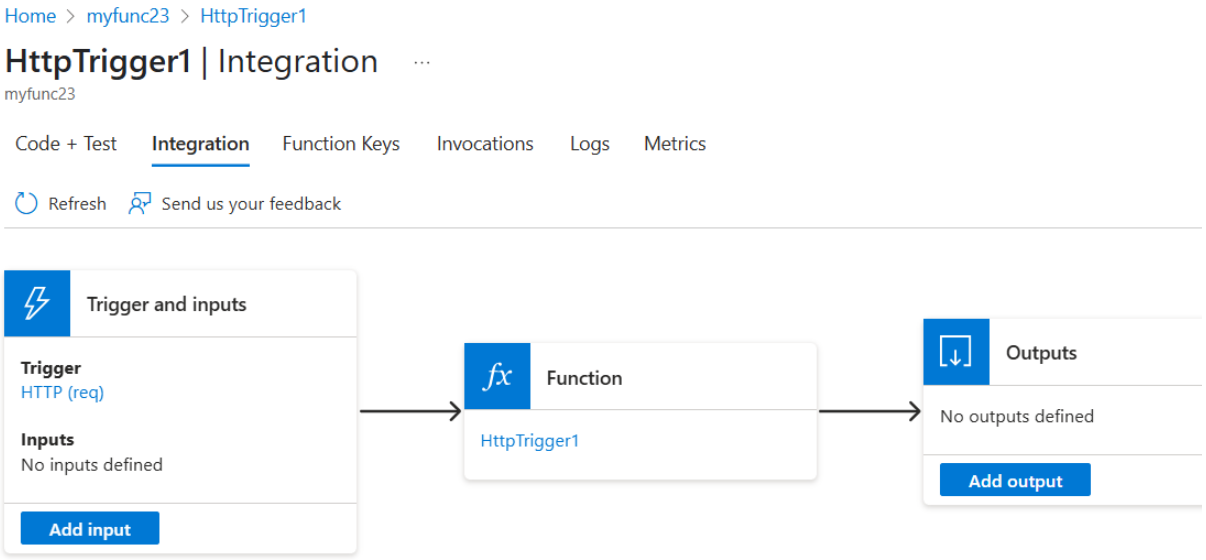
TASK 02

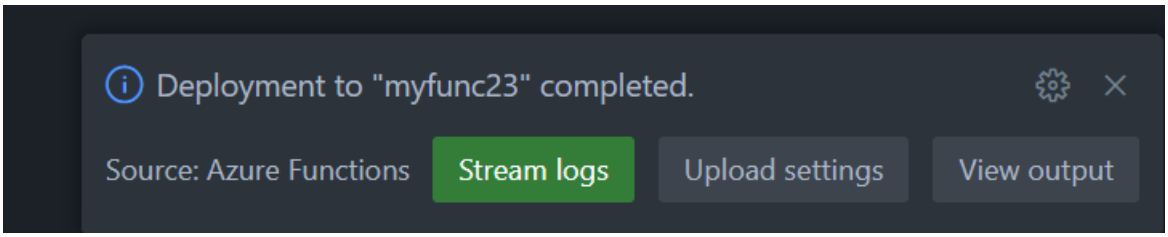
1. We created an Azure Function App with the .NET runtime on a consumption plan. This is used to run small pieces of code on demand without managing infrastructure.

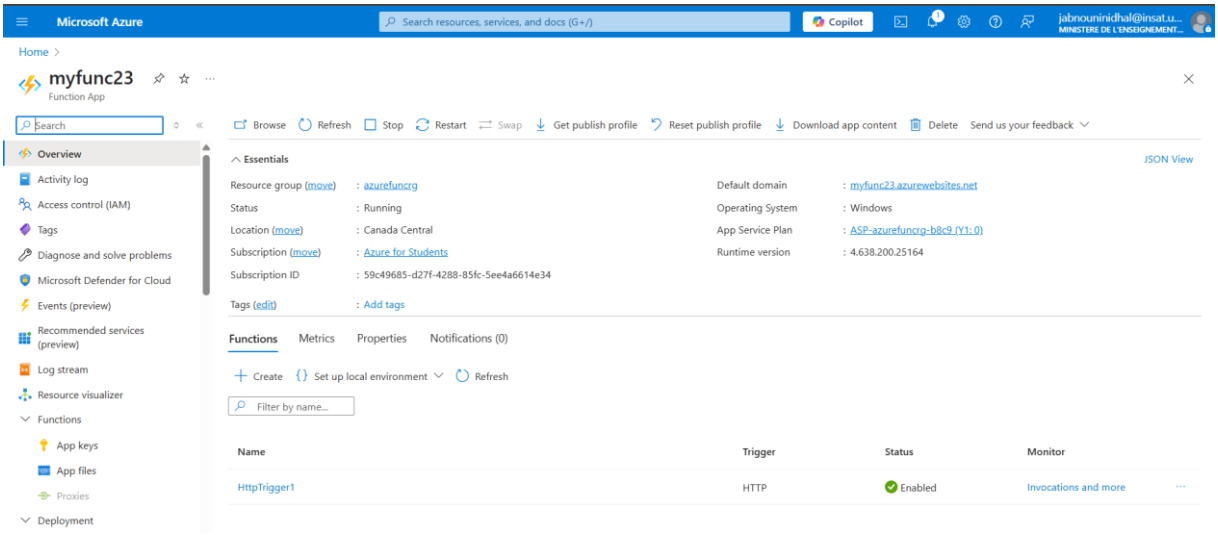


2. We created a new function with an HTTP trigger and configured its integration. This allows external services to trigger the function via HTTP requests.We did this by levraging VSCode's integration with Azure, then deployed the function to our previously created function app.

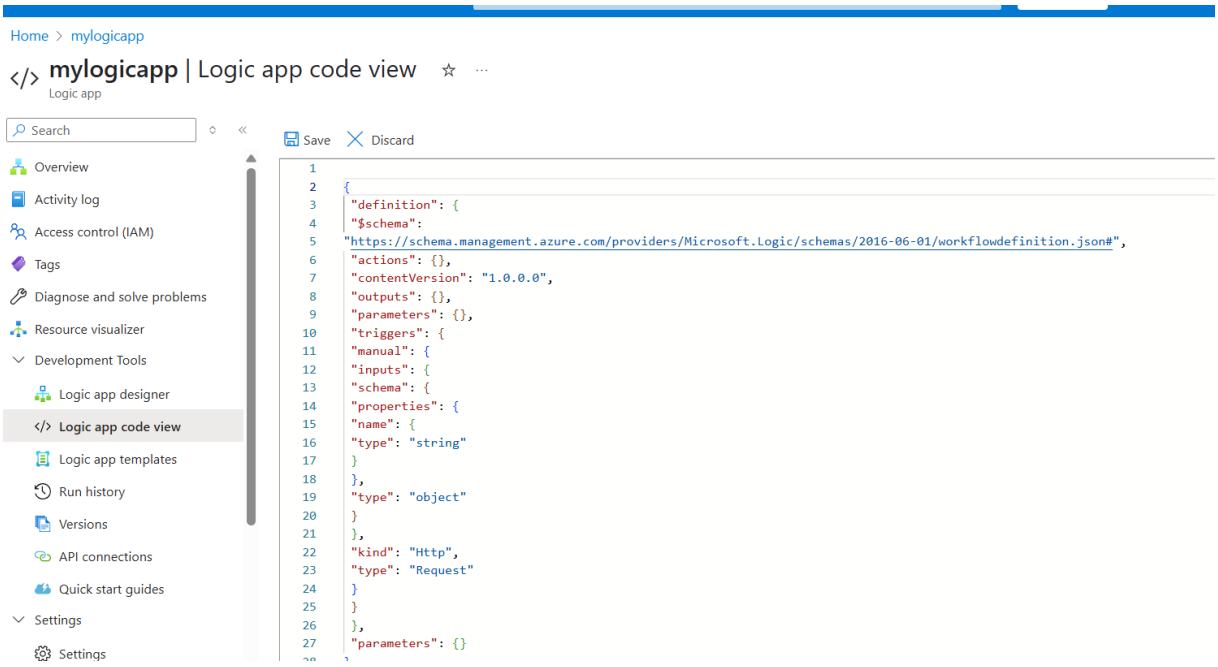


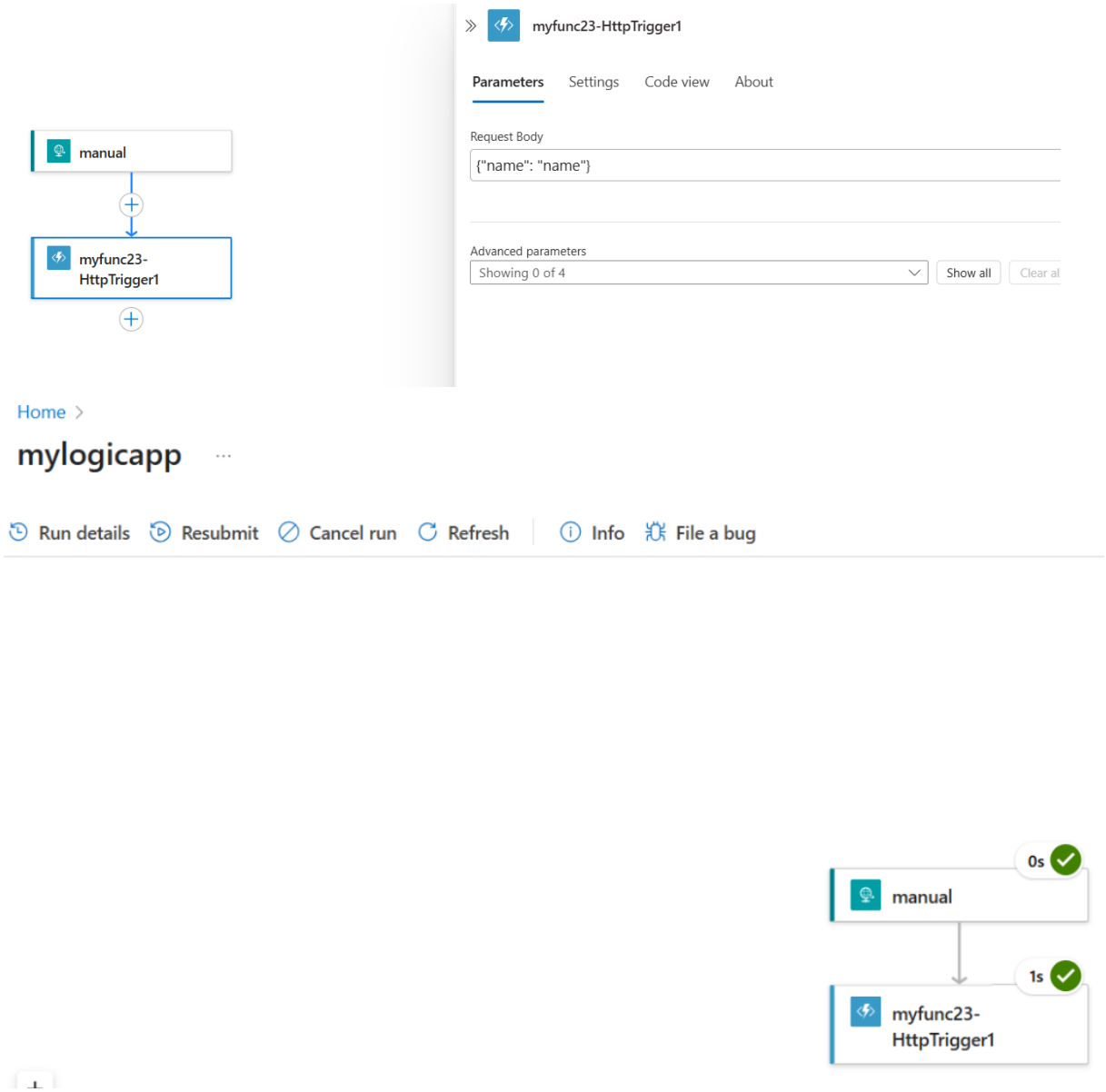




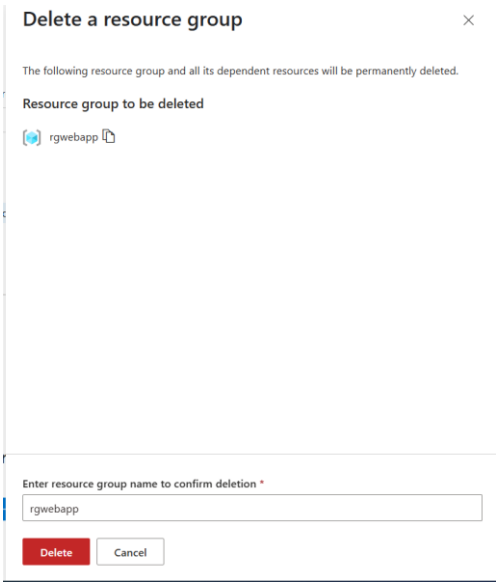


3. We created a Logic App in the same region and resource group, and used the Code View to define an HTTP request trigger. This sets up a workflow that starts on receiving an HTTP POST request.





13. We cleaned up the resources by deleting the Function App and Logic App. This frees up cloud resources and avoids incurring additional costs.



Conclusion:

In this lab, we explored the deployment and scaling capabilities of Azure Web Apps, including staging slots and autoscaling rules. We also implemented a Function App and integrated it with a Logic App to automate workflows via HTTP triggers. These exercises demonstrated key concepts in app hosting, deployment, and serverless computing. By completing these tasks, we gained hands-on experience with building scalable and event-driven solutions on Azure.