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Documentation: Azure Web Hosting with Linux and GitHub Deployment

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❖ Introduction

Welcome to the documentation on setting up Azure Web Hosting with Linux and deploying projects through your GitHub account. This guide will walk you through the process of creating a web app in Azure, connecting it to GitHub, and deploying your project seamlessly.

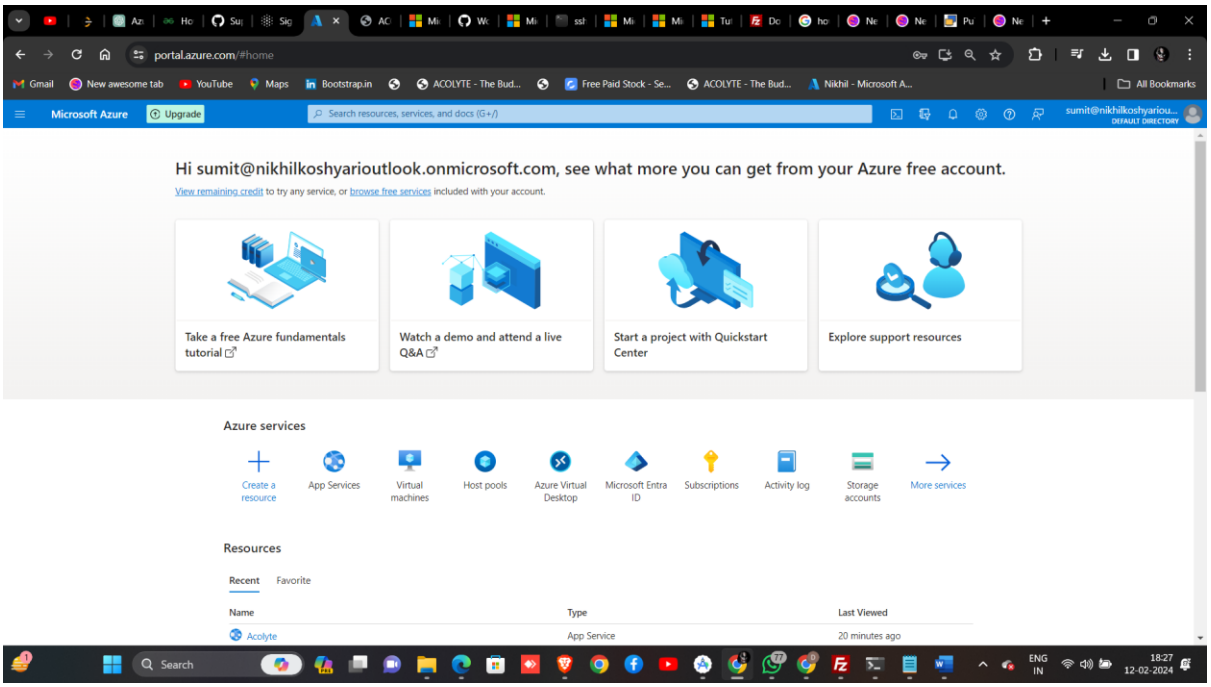
▪ Prerequisites

before you begin, ensure you have the following:

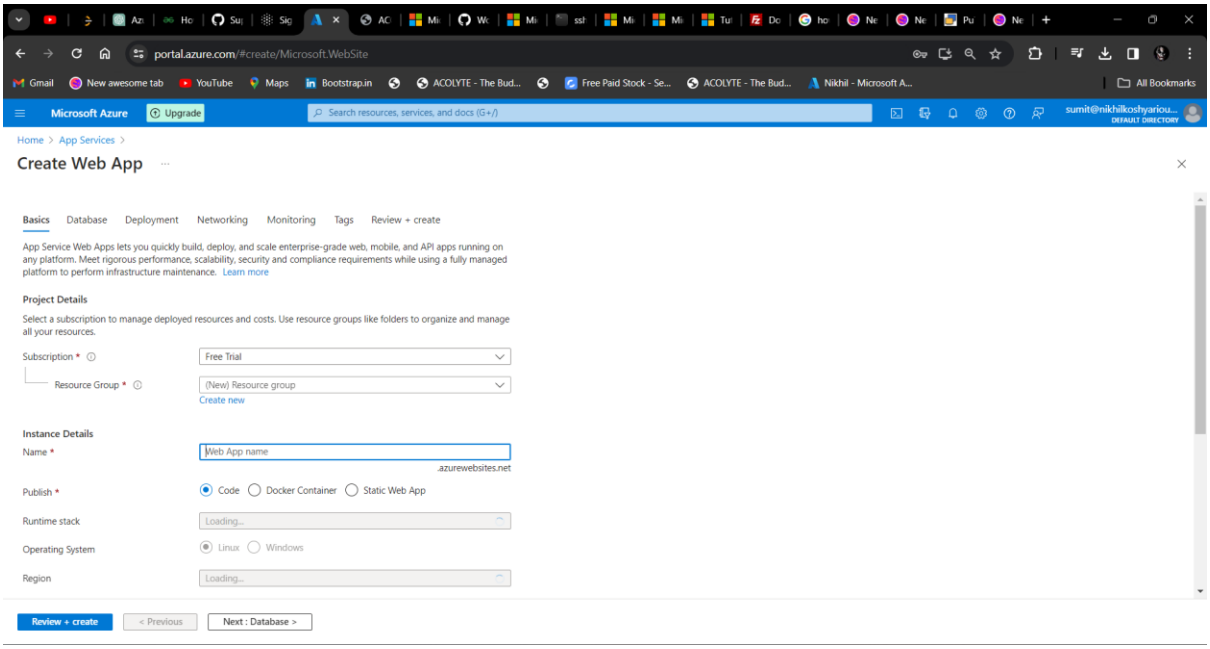
- ➢ An active Azure account. [Sign up for Azure] if you don't have one.
- ➢ A GitHub account with your project repository ready for deployment.
- ➢ Basic familiarity with Git and GitHub.

Step 1: Creating an Azure Web App

1. Sign in to the [Azure Portal].



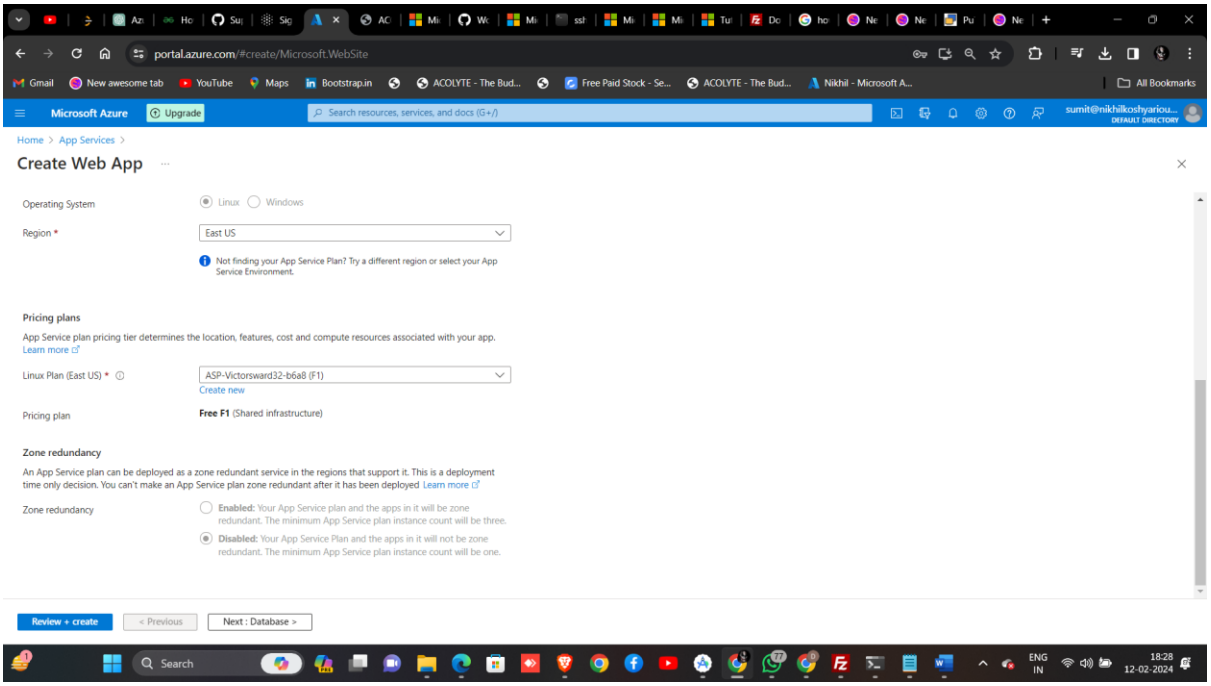
2. Navigate to "Create a resource" > "Web" > "Web App".



3. Fill in the necessary details:

- App name: Unique name for your web app.
- Resource Group: Create a new one or select an existing one.
- Operating System: Choose Linux.
- Runtime stack: Choose your preferred runtime (e.g., Node.js, Python, PHP).

4. Configure other settings as needed and click "Review + create" > "Create".



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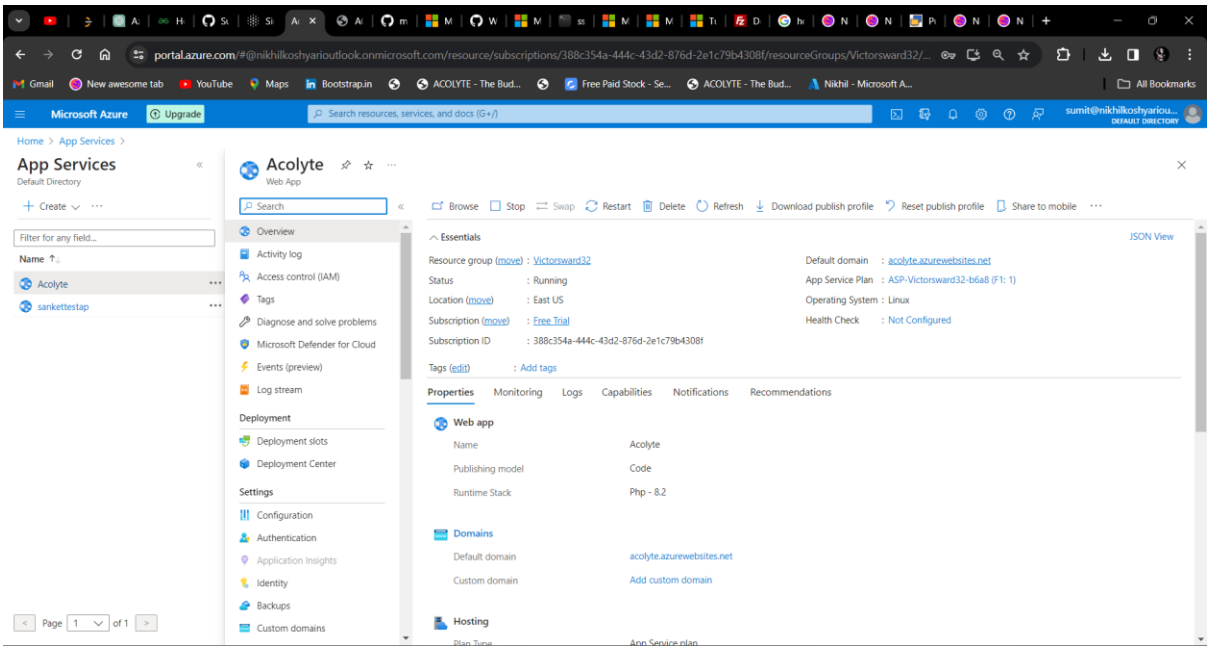

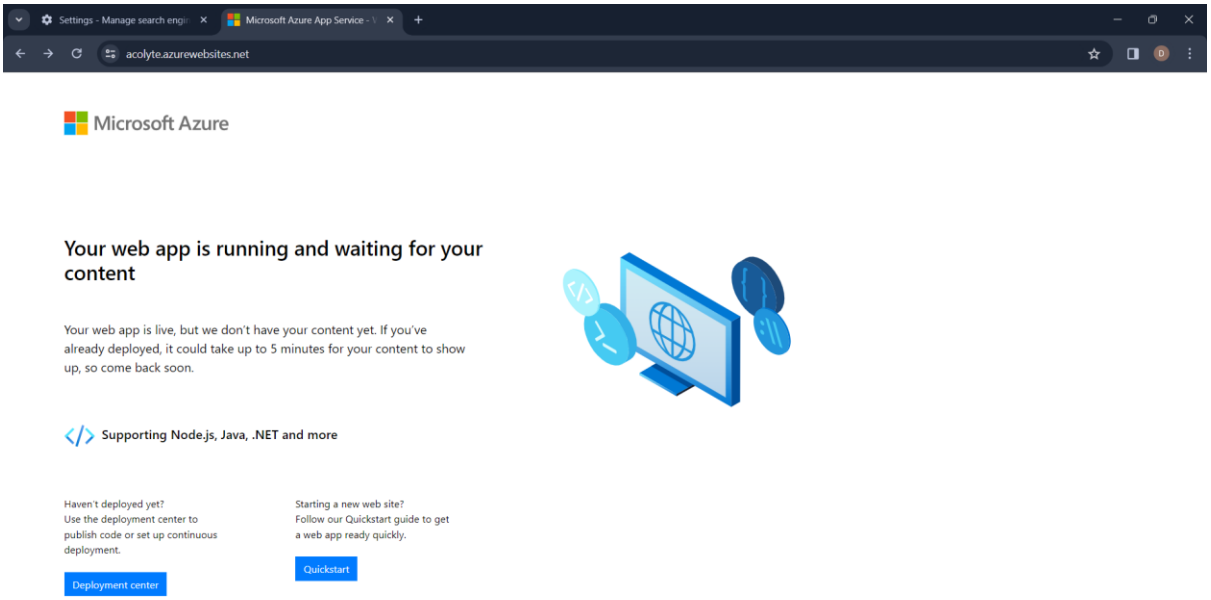

Step 2: Connecting Azure Web App to GitHub

- Once your web app is created, navigate to its settings.
- Under "Deployment Center", select GitHub as the source.
- Authorize Azure to access your GitHub account.
- Choose your repository and branch to deploy from.

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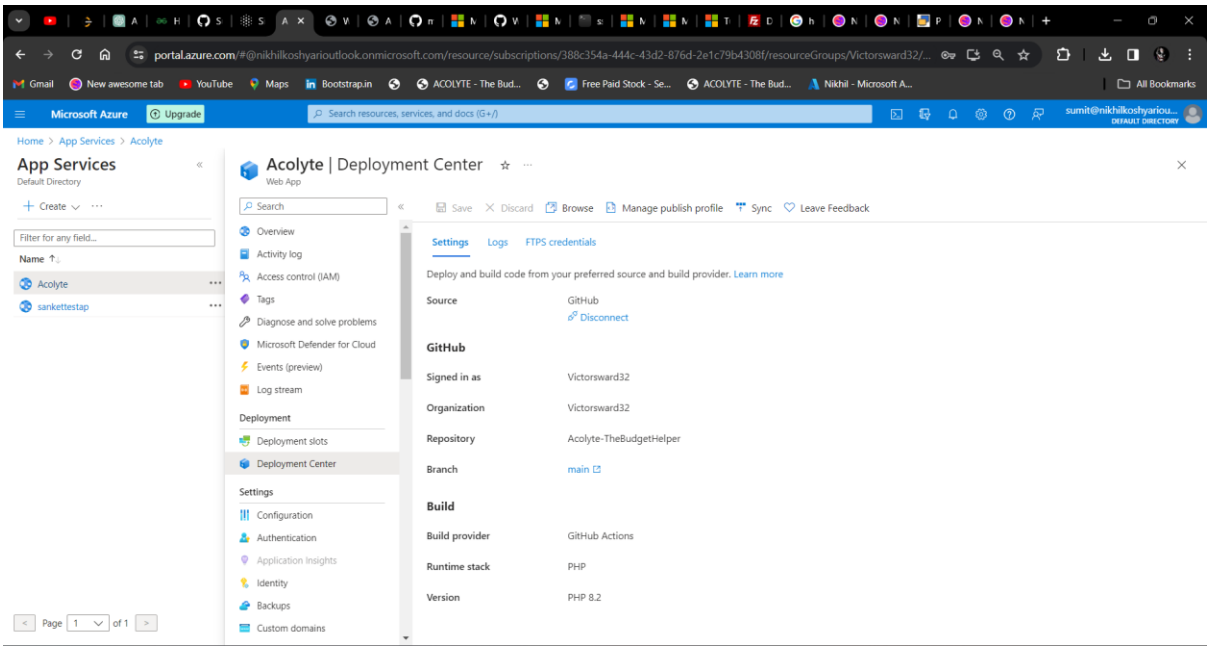
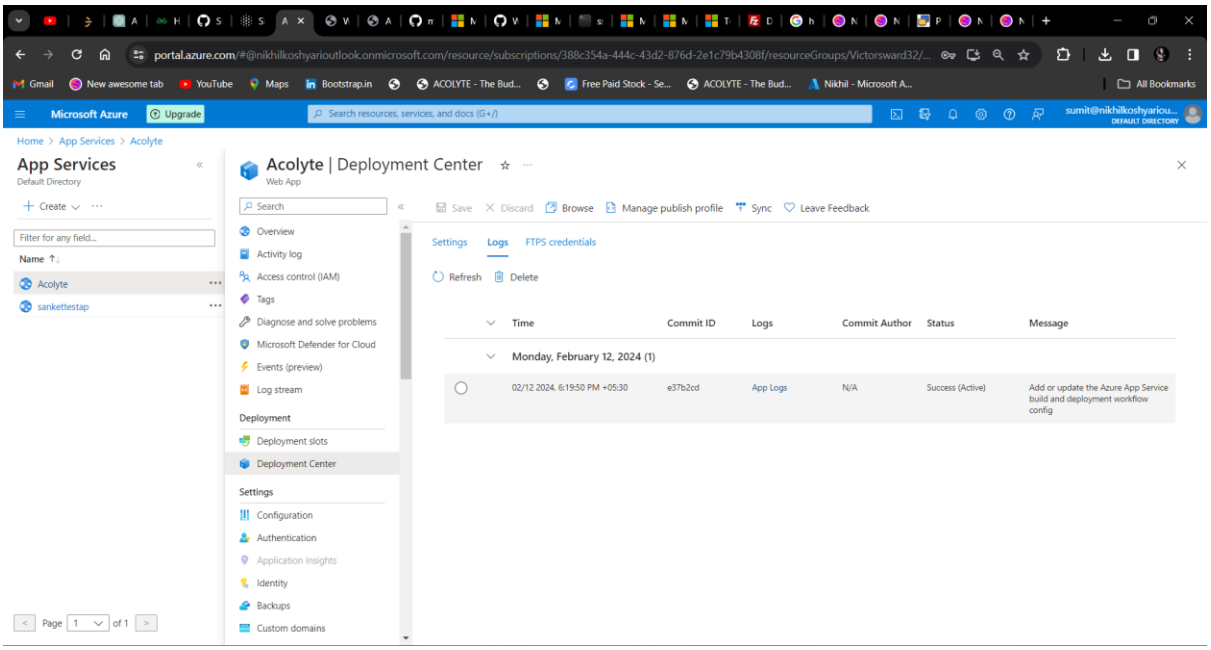




Step 3: Preparing Your Project for Deployment

1. Ensure your project is in a GitHub repository.

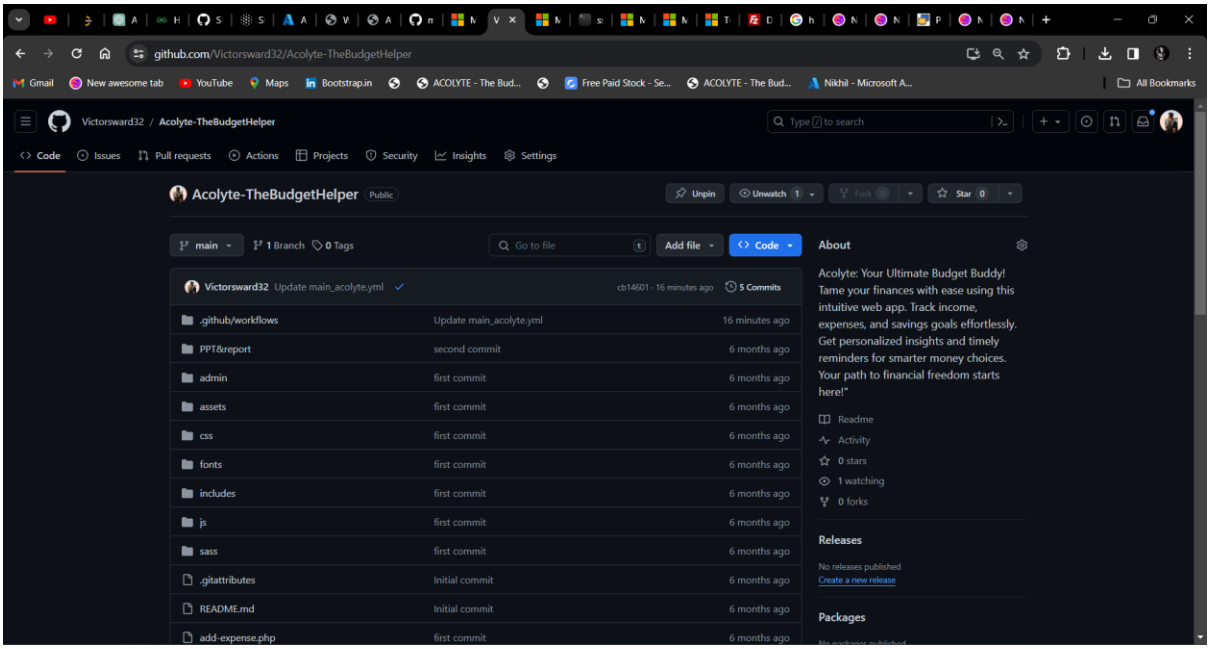
2. Make sure your project is properly structured and includes necessary configuration files (e.g., `package.json` for Node.js projects).

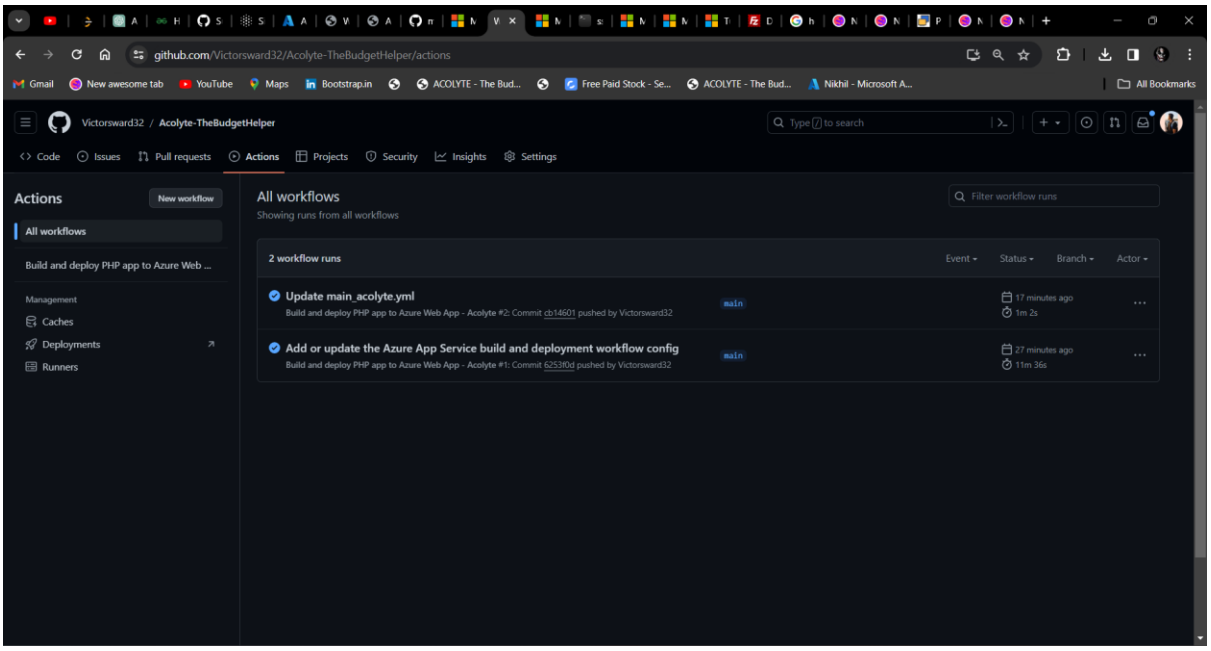
Step 4: Deploying Your Project to Azure

1. Once connected to GitHub, Azure will automatically trigger a deployment when you push changes to the specified branch.

2. Monitor the deployment progress in the Azure Portal.

3. Once deployment is successful, your web app will be updated with the latest changes.





Step 5: Testing Your Deployed Web App

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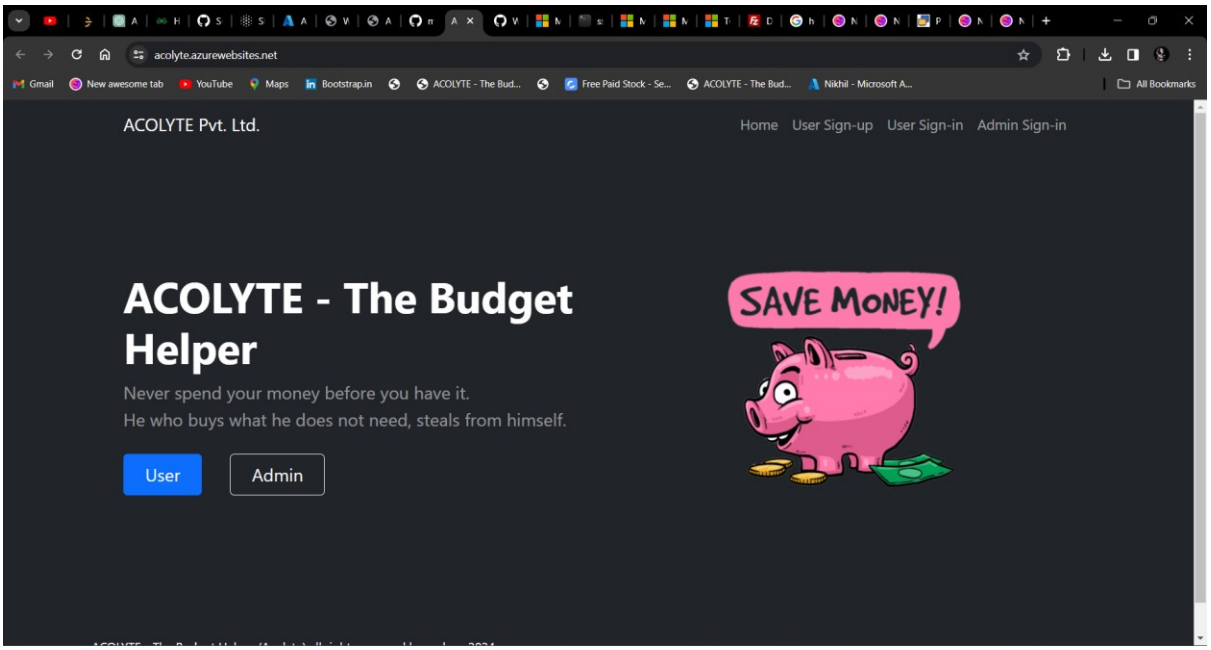
1. Navigate to the URL of your Azure Web App.

2. Test the functionality of your web app to ensure it's working as expected.

3. If any issues arise, refer to the deployment logs in the Azure Portal for troubleshooting.



Conclusion

Congratulations! You've successfully set up Azure Web Hosting with Linux and deployed your project through GitHub. Remember to explore further resources and documentation for advanced topics.