

# DANCT604-Cloud Infrastructure and Administration

**Friday activity: Deploy a Static Website from GitHub to Azure**  
MURACHI, TAKASHI

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## 1. Create a new repository.

Copy this link: (Cloudacademy/Static-Website-Example, 2016/2024) and paste the GitHub repository from assignment of Friday activity. Select clone a repository from Internet to connect my GitHub: (Takakroger - Overview, n.d.).

### Create a new repository

A repository contains all project files, including the revision history. Already have a project repository elsewhere?

[Import a repository.](#)

Required fields are marked with an asterisk (\*).

Owner \*

 takakroger ▾

Repository name \*

/ Deploy a Static Website

✓ Your new repository will be created as Deploy-a-Static-Website.

The repository name can only contain ASCII letters, digits, and the characters ., -, and \_.

Great repository names are short and memorable. Need inspiration? How about [symmetrical-potato](#) ?

Description (optional)

Step-by-Step Guide to Deploy a Static Website from GitHub to Azure

☒  **Public**

Anyone on the internet can see this repository. You choose who can commit.

☐  **Private**

You choose who can see and commit to this repository.

Initialize this repository with:

☒ **Add a README file**

This is where you can write a long description for your project. [Learn more about READMEs.](#)

Add .gitignore

.gitignore template: None ▾

Choose which files not to track from a list of templates. [Learn more about ignoring files.](#)

Choose a license

License: None ▾

A license tells others what they can and can't do with your code. [Learn more about licenses.](#)

This will set  main as the default branch. Change the default name in your [settings](#).

 You are creating a public repository in your personal account.

Create repository

Deploy-a-Static-WebsitePublic

Pin

Unwatch1

Fork0

Star0

main1 Branch0 Tags

Go to file

Add file

Code

takakrogerInitial commitf3c4057 · now1 Commit

README.mdInitial commitnow

README

# Deploy-a-Static-Website

Step-by-Step Guide to Deploy a Static Website from GitHub to Azure

About

Step-by-Step Guide to Deploy a Static Website from GitHub to Azure

Readme

Activity

0 stars

1 watching

0 forks

Releases

No releases published

Create a new release

Packages

No packages published

Publish your first package

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TermsPrivacySecurityStatusDocsContactManage cookiesDo not share my personal information

## 2. Open with GitHub Desktop highlighted in yellow.

Deploy-a-Static-WebsitePublic

Pin

Unwatch1

Fork0

Star0

main1 Branch0 Tags

Go to file

Add file

Code

takakrogerInitial commit

README.mdInitial commit

README

# Deploy-a-Static-Website

Step-by-Step Guide to Deploy a Static Website from GitHub to Az

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Create a new release

Packages

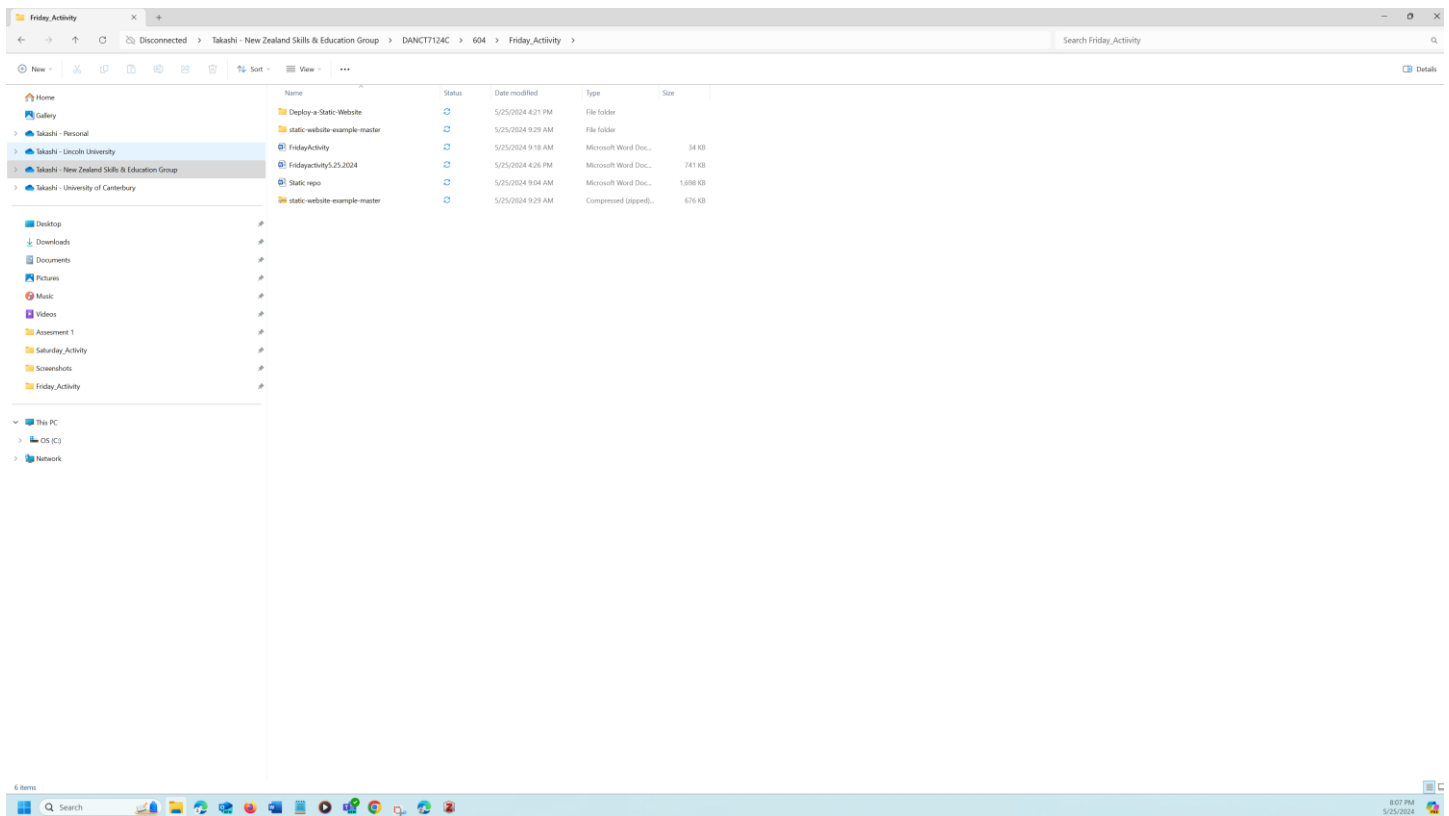
No packages published

Publish your first package

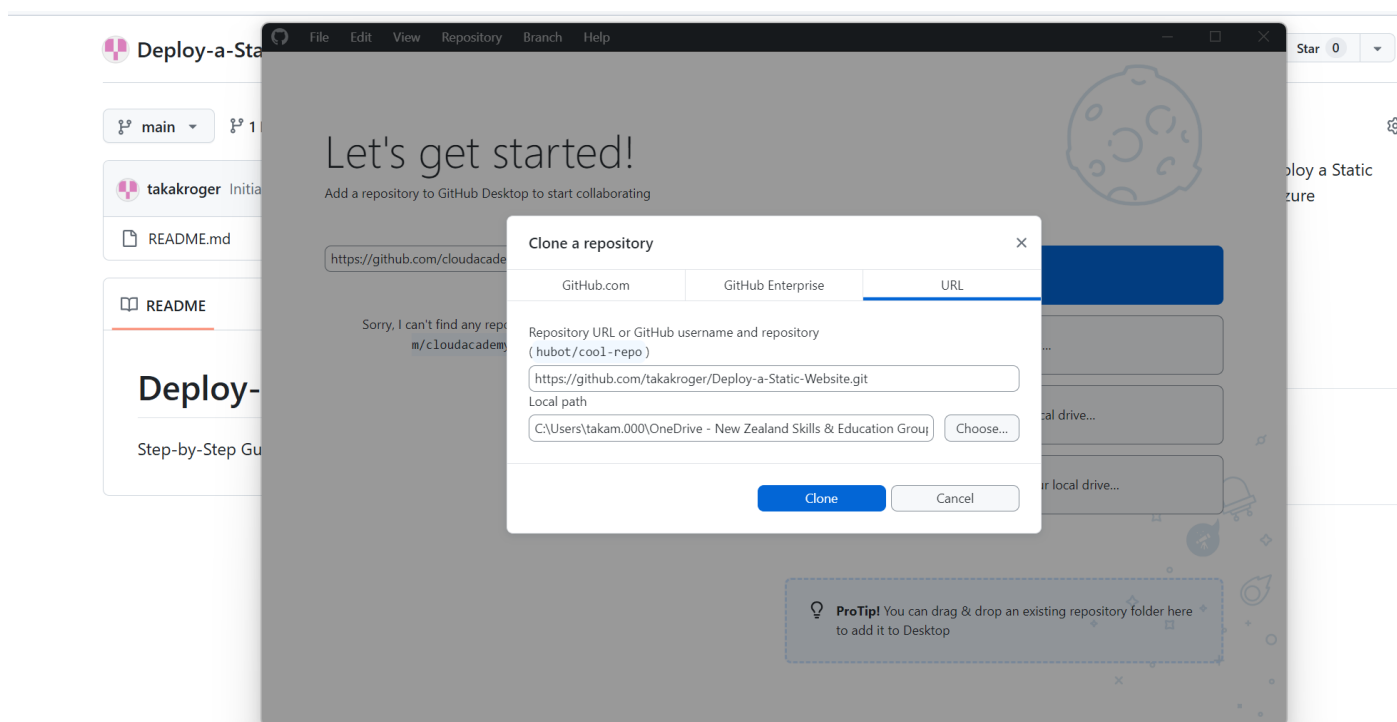
© 2024 GitHub, Inc.

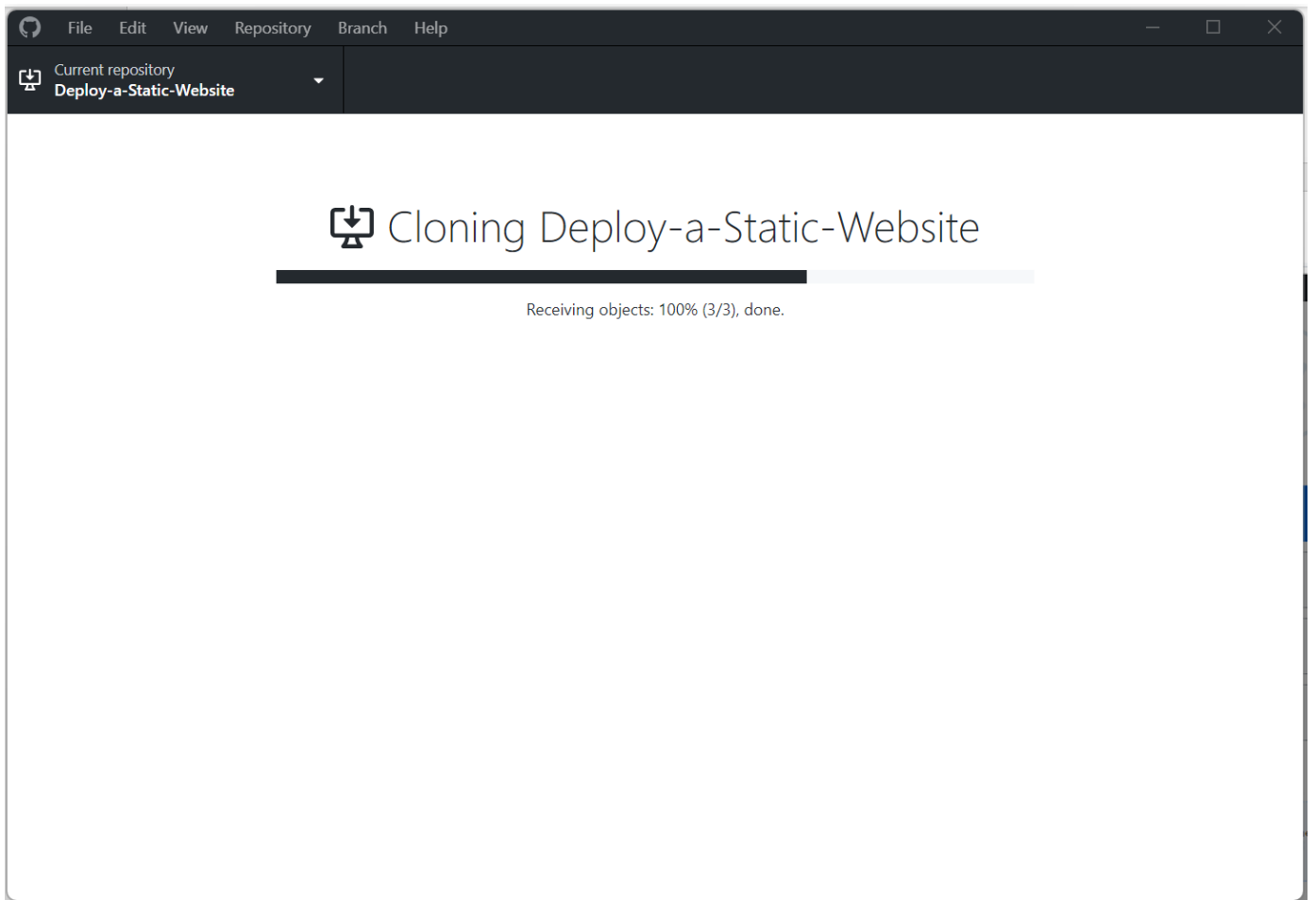
TermsPrivacySecurityStatusDocsContactManage cookiesDo not share my personal information

3. The name of clone called deploy a static-website.git and location of local path was set in my NZSC local file path of Friday active in DANCT604.

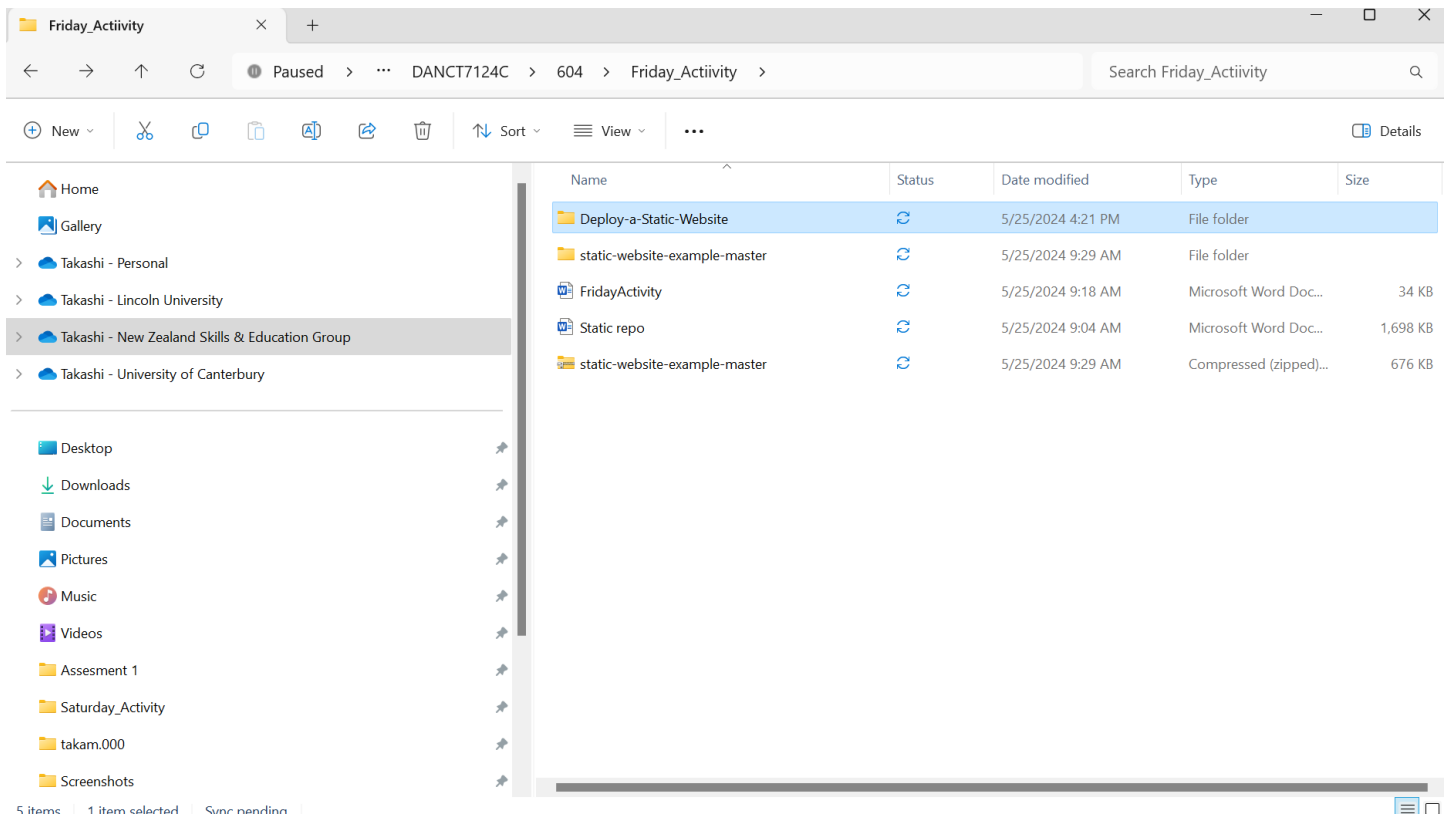


4. Cloning deploys a static website.

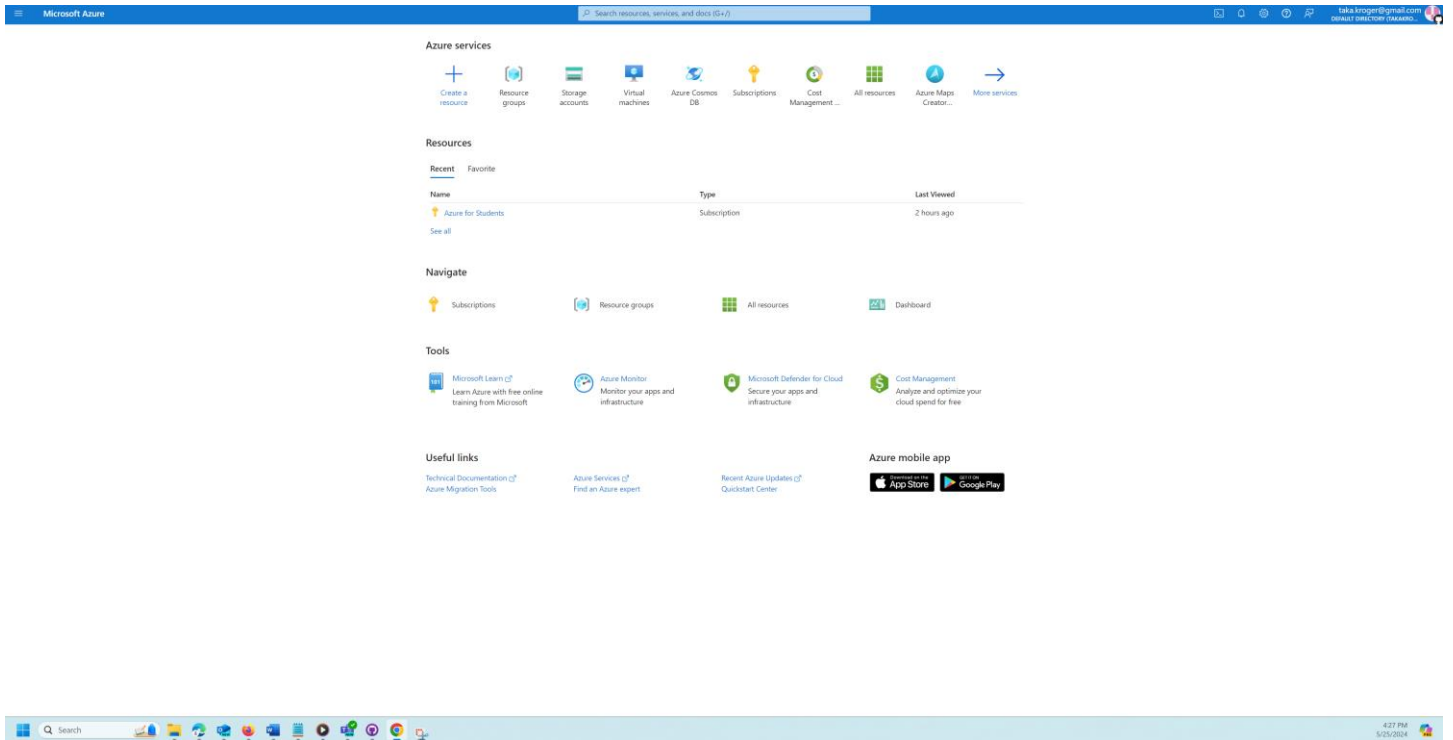




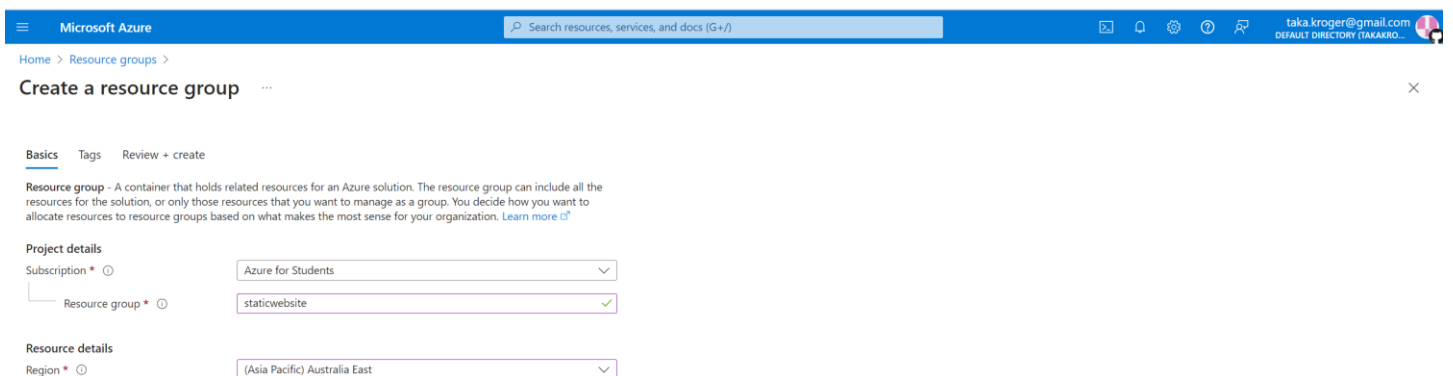
## 5. The location of path file.



## 6. Open the Microsoft Azure portal.



## 7. Create a resource ground based in Australia East where is closed to New Zealand. Subscription was given by NZSE as a default setting, and resource group was named as staticwebsite.





## 8. Create a resource group by yellowed button.

Microsoft Azure

Search resources, services, and docs (G+I)

Home > Resource groups >

### Create a resource group

Validation passed.

Basics Tags Review + create

Basics

Subscription Azure for Students

Resource group staticwebsite

Region Australia East

Tags

None

Create < Previous Next > Download a template for automation

## 9. Named staticwebsite was created in the resource group, so please click this.

Microsoft Azure

Search resources, services, and docs (G+I)

Home >

### Resource groups

Default Directory (takakroger@gmail.onmicrosoft.com)

+ Create Manage view Refresh Export to CSV Open query Assign tags

Filter for any field... Subscription equals all Location equals all Add filter

Showing 1 to 2 of 2 records.

No grouping List view

Name ↑↓	Subscription ↑↓	Location ↑↓	
NetworkWatcherRG	Azure for Students	Australia East	...
staticwebsite	Azure for Students	Australia East	...

10. Once clicking the staticwebsite in yellow, following page can show on the website. So, clicking the +Create in yellow.

The screenshot shows the Microsoft Azure portal interface. At the top, the 'staticwebsite' resource group is selected. The left sidebar contains navigation options like Overview, Activity log, Access control (IAM), Tags, Resource visualizer, Events, Settings, Cost Management, Monitoring, Automation, and Help. The main area displays the 'Essentials' section with subscription details (Subscription: Azure for Students, Subscription ID: 6e9c8767-95b7-4898-b174-ed9b6cd7144, Location: Australia East). Below this, the 'Resources' section shows a table with 0 records. A message in the center states 'No resources match your filters' with a 'Create resources' button highlighted in blue. The bottom of the screen shows the Windows taskbar with various application icons and system tray information.

11. Type “Marketplace” in search space in the top space area, and click the storage account highlighted in yellows.

The screenshot shows the Microsoft Azure Marketplace interface. The search bar at the top contains 'storage account'. The left sidebar shows navigation options like Get Started, Service Providers, Management, Private Marketplace, Private Offer Management, My Marketplace, Favorites, My solutions, Recently created, Private plans, Categories, Storage (90), Compute (46), IT & Management Tools (42), Security (37), Analytics (25), Databases (20), Web (16), and Developer Tools (12). The main area displays a grid of search results for 'storage account'. The first result, 'Storage account', is highlighted with a yellow box. The 'Create' button for this result is also highlighted in yellow. Other results include 'Storage Account Using ARM Template', 'Storage task - Azure Storage Actions', 'Azure Storage Mover', 'Storage Account Using ARM', 'MDACA Cloud Storage Explorer', 'Storage Account Using ARM', 'S3 API for Azure Blob Storage (Flexify.IO)', 'APEX Protection Storage for Microsoft Azure (DDVE)', and 'Azure Storage solution for Sentinel'. The bottom of the screen shows the Windows taskbar with various application icons and system tray information.

## 12. Select plan as “Storage account” and click “create.”

The screenshot shows the Microsoft Azure Marketplace page for the 'Storage account' service. The page header includes the Microsoft Azure logo, a search bar, and user information (taka.kroger@gmail.com). The breadcrumb trail is 'Home > staticwebsite > Marketplace > Storage account'. The main content area displays the 'Storage account' service with a 4.3 rating (1879 ratings). A dropdown menu shows 'Storage account' as the selected plan, and a blue 'Create' button is highlighted with a yellow circle. Below the service card, there are tabs for 'Overview', 'Plans', 'Usage Information + Support', and 'Ratings + Reviews'. The 'Overview' tab is active, showing a description of Microsoft Azure storage services and a section for 'More products from Microsoft' with four cards: 'Active Directory Health Check', 'AD Replication Status', 'Device Update for IoT Hub', and 'Front Door and CDN profiles'.

## 13. Create a storage account by setting “staticwebsite” in resource group in project details under the Azure for students, type storage account name as “muratakastorage” as an unique account names.

The screenshot shows the 'Create a storage account' wizard in the Microsoft Azure portal. The breadcrumb trail is 'Home > staticwebsite > Marketplace > Storage account > Create a storage account'. The 'Basics' tab is active, showing the 'Project details' and 'Instance details' sections. In the 'Project details' section, the 'Subscription' is set to 'Azure for Students' and the 'Resource group' is set to 'staticwebsite'. In the 'Instance details' section, the 'Storage account name' is 'muratakastorage', the 'Region' is 'Asia Pacific(Australia) East', and the 'Performance' is set to 'Standard'. The 'Redundancy' is set to 'Locally-redundant storage (LRS)'. At the bottom, there are buttons for 'Review', '< Previous', 'Next > Advanced', and 'Give feedback'.

14. Create a storage account is now set as below.

**Create a storage account**

Basic Advanced Networking Data protection Encryption Tags Review

### Basics

Subscription	Azure for Students
Resource Group	myresource
Location	australiaeast
Storage account name	mystorageaccount
Replication model	Regionally managed
Performance	Standard
Application	Locality-redundant storage (LRS)

### Advanced

Enable hierarchical namespace	Disabled
Enable network file system v3	Disabled
Allow cross-region replication	Disabled
Access tier	Hot
Enable SFTP	Disabled
Large file shares	Disabled

### Networking

Network connectivity	Public endpoint (off-network)
Default routing tier	Microsoft network routing
Endpoint type	Standard

### Security

Secure transfer	Enabled
Allow storage account key access	Enabled
Default to Microsoft Entra authorization in the Azure portal	Disabled
Blob anonymous access	Disabled
Minimum TLS version	Version 1.2
Reimbursed usage for copy operations (preview)	From any storage account

### Data protection

Raid or time retention	Disabled
Blob soft delete	Enabled
Blob retention period in days	7
Container soft delete	Enabled
Container retention period in days	7
File share soft delete	Enabled
File share retention period in days	7
Versioning	Disabled
Blob change feed	Disabled
Version-level immutability support	Disabled

### Encryption

Encryption type	Microsoft-managed keys (SMBK)
Enable support for customer-managed keys	Blobs and files only
Enable infrastructure encryption	Disabled

[Code](#) [Previous](#) [Next](#) [Download a template for automation](#) [See feedback](#)

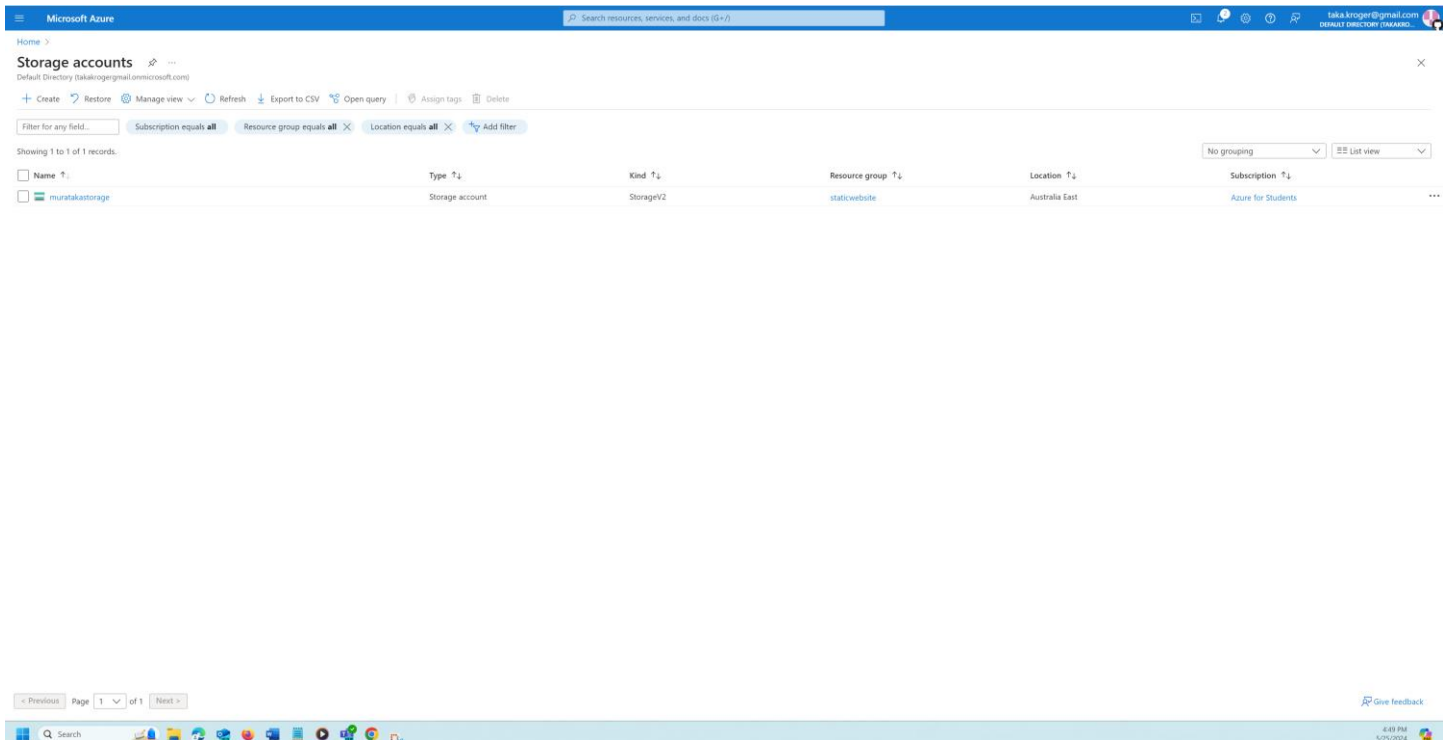
## 15. Once creating a storage account, deploying is in progress.

The screenshot shows the Microsoft Azure portal interface. The top navigation bar includes the Microsoft Azure logo, a search bar, and user information. The main content area displays the 'Overview' page for a deployment named 'muratakastorage\_1716612408976'. The deployment status is 'Deployment is in progress'. A table lists the deployment details, showing the resource 'muratakastorage' of type 'Microsoft.Storage/storageAccounts' with a status of 'Accepted'. The right sidebar contains several informational cards, including 'Microsoft Defender for Cloud', 'Free Microsoft tutorials', and 'Work with an expert'. The bottom of the screen shows a Windows taskbar with various application icons and the system clock indicating 4:47 PM on 5/25/2024.

## 16. Complete the deployment message as below.

The screenshot shows the Microsoft Azure portal interface, similar to the previous one, but the deployment status is now 'Your deployment is complete'. The deployment details table shows the resource 'muratakastorage' with a status of 'Succeeded'. The right sidebar contains several informational cards, including 'Cost Management', 'Microsoft Defender for Cloud', 'Free Microsoft tutorials', and 'Work with an expert'. The bottom of the screen shows a Windows taskbar with various application icons and the system clock indicating 4:47 PM on 5/25/2024.

## 17. Go to the storage accounts.



Microsoft Azure

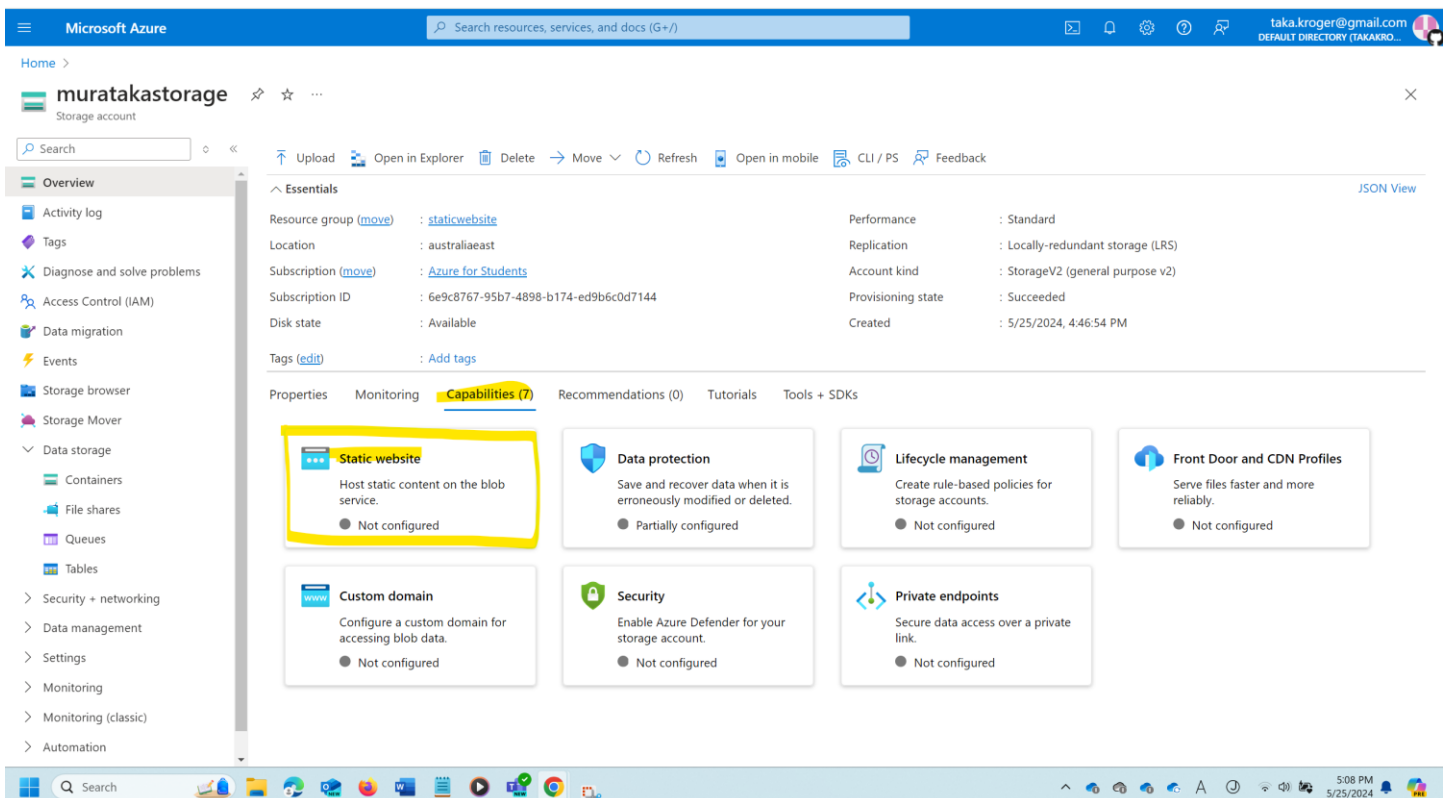
Storage accounts

Filter for any field...

Showing 1 to 1 of 1 records.

Name	Type	Kind	Resource group	Location	Subscription
<a href="#">muratakastorage</a>	Storage account	StorageV2	staticwebsite	Australia East	Azure for Students

## 18. By reading materials (stevenmatthew, 2023), select overview, then select capabilities(7) and then choose “Static Website”.



Microsoft Azure

muratakastorage

Overview

Static website

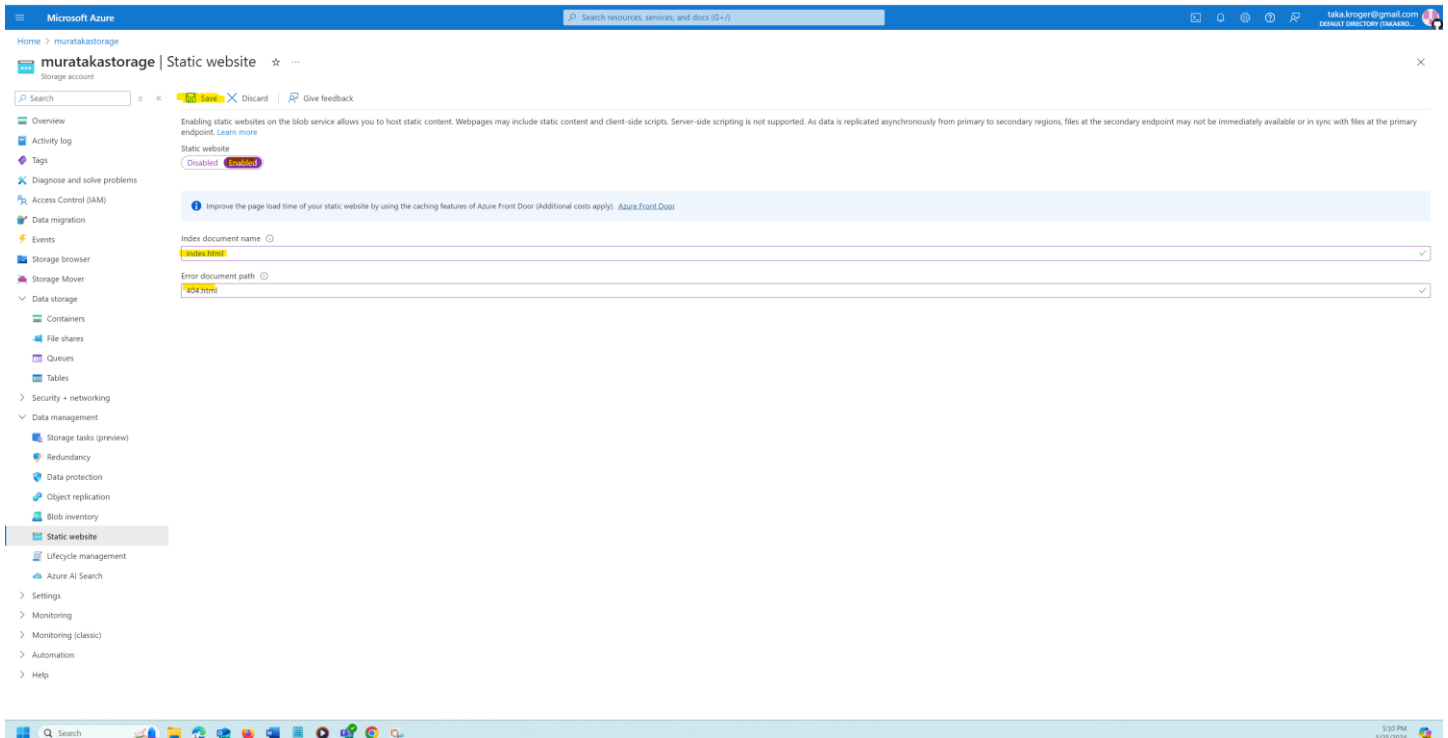
Host static content on the blob service.

● Not configured

Capabilities (7)

- Data protection: Save and recover data when it is erroneously modified or deleted. ● Partially configured
- Lifecycle management: Create rule-based policies for storage accounts. ● Not configured
- Front Door and CDN Profiles: Serve files faster and more reliably. ● Not configured
- Custom domain: Configure a custom domain for accessing blob data. ● Not configured
- Security: Enable Azure Defender for your storage account. ● Not configured
- Private endpoints: Secure data access over a private link. ● Not configured

19. In order to active this tool, static website must be changed from disable to enabled, then index document name as “index.html” and error documents path as “404.html and save them, so that static website can be seen under data management.



## 20. Upload Your Static Website Files

I have already connected as clone before, so I will show the command prompt result as evidence.

```
Command Prompt
Microsoft Windows [Version 10.0.22631.3593]
(c) Microsoft Corporation. All rights reserved.

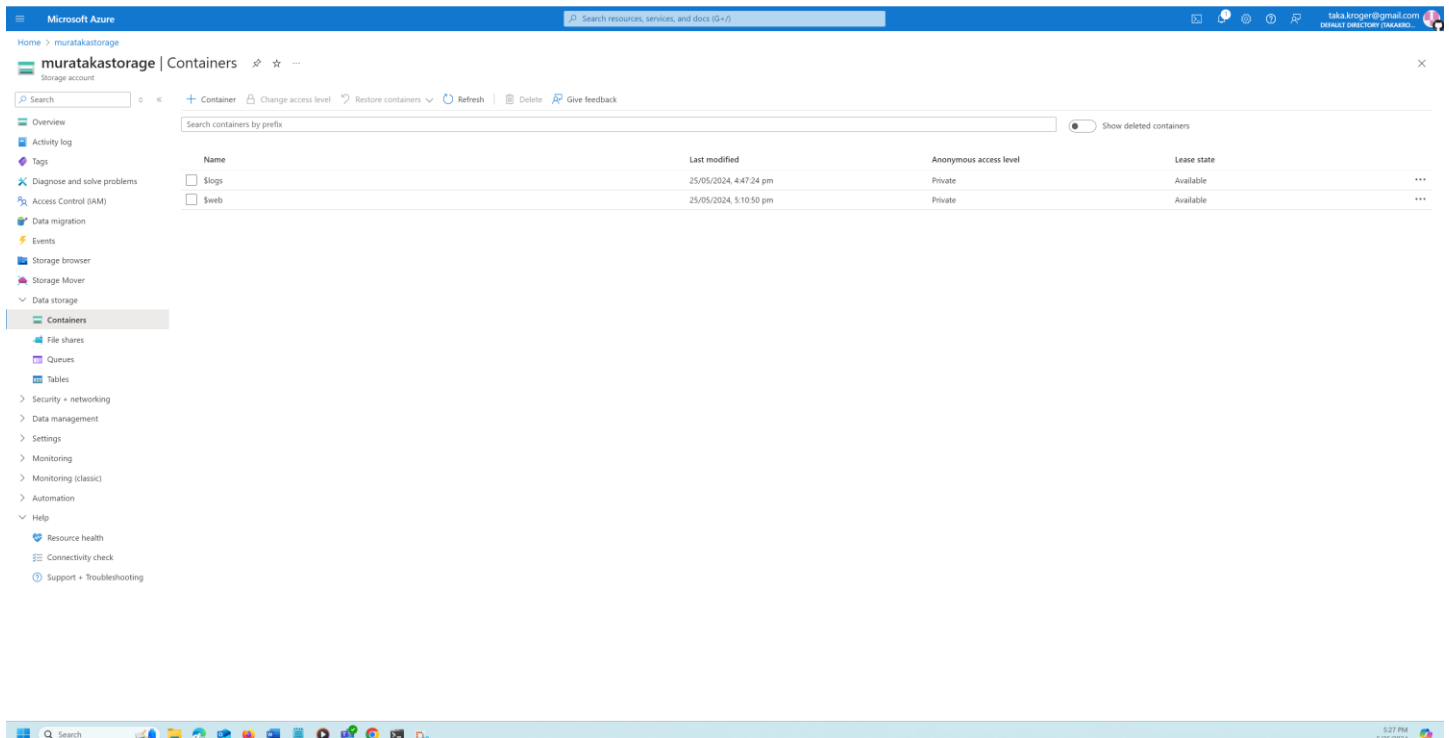
C:\Users\takam.000>git clone https://github.com/static-web-hosting/static-website-example.git
fatal: destination path 'static-website-example' already exists and is not an empty directory.

C:\Users\takam.000>
```

21. Now the location was assigned using CD command.

```
C:\Users\takam.000>cd static-website-example
C:\Users\takam.000\static-website-example>
```

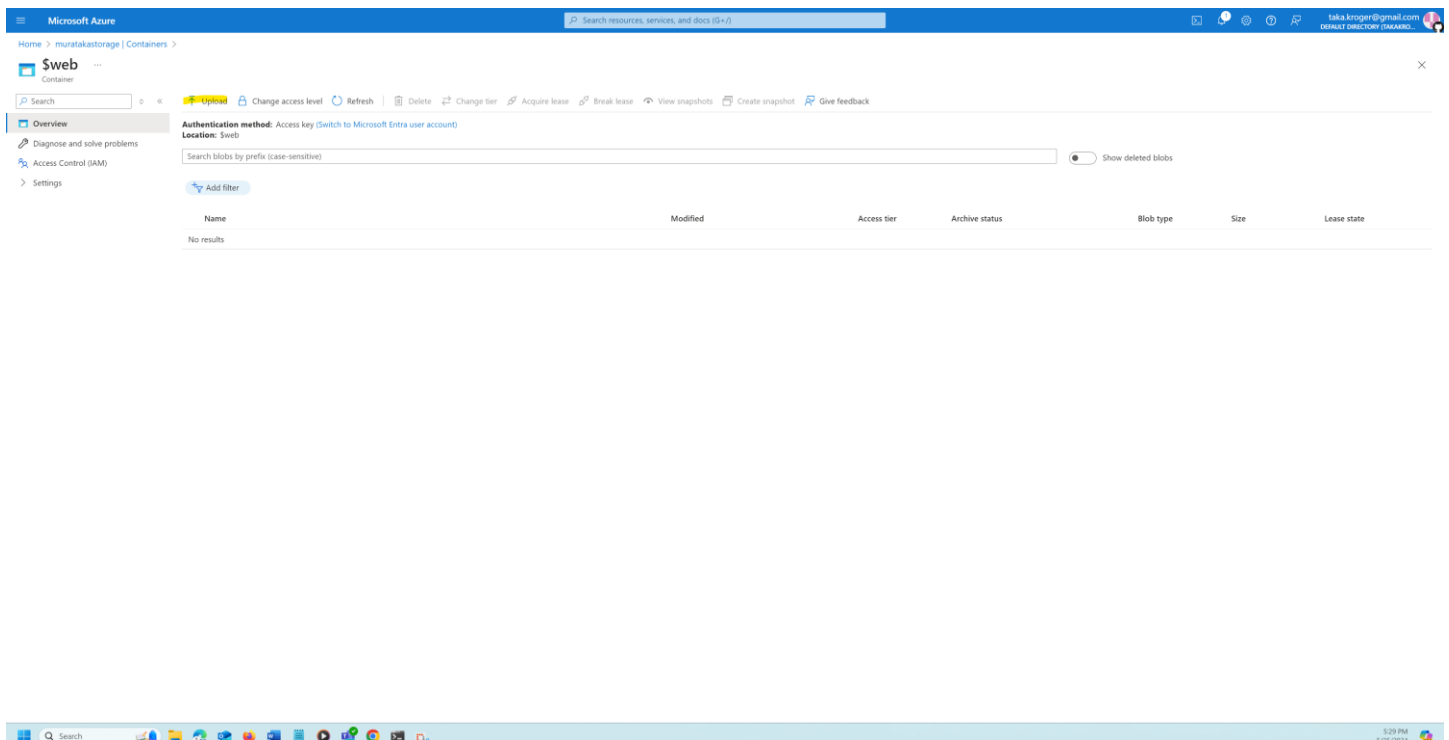
## 22. Select containers, then click “\$web” container.



The screenshot shows the Microsoft Azure portal interface. The top navigation bar includes the Microsoft Azure logo, a search bar, and the user's profile. The main content area is titled 'muratakastorage | Containers'. On the left, there is a sidebar with various navigation options. The main area displays a table of containers. The '\$web' container is selected, and its details are shown on the right.

Name	Last modified	Anonymous access level	Lease state
\$logs	25/05/2024, 4:47:24 pm	Private	Available
\$web	25/05/2024, 5:10:50 pm	Private	Available

## 23. Select upload, html, css and js file from the cloned repository.

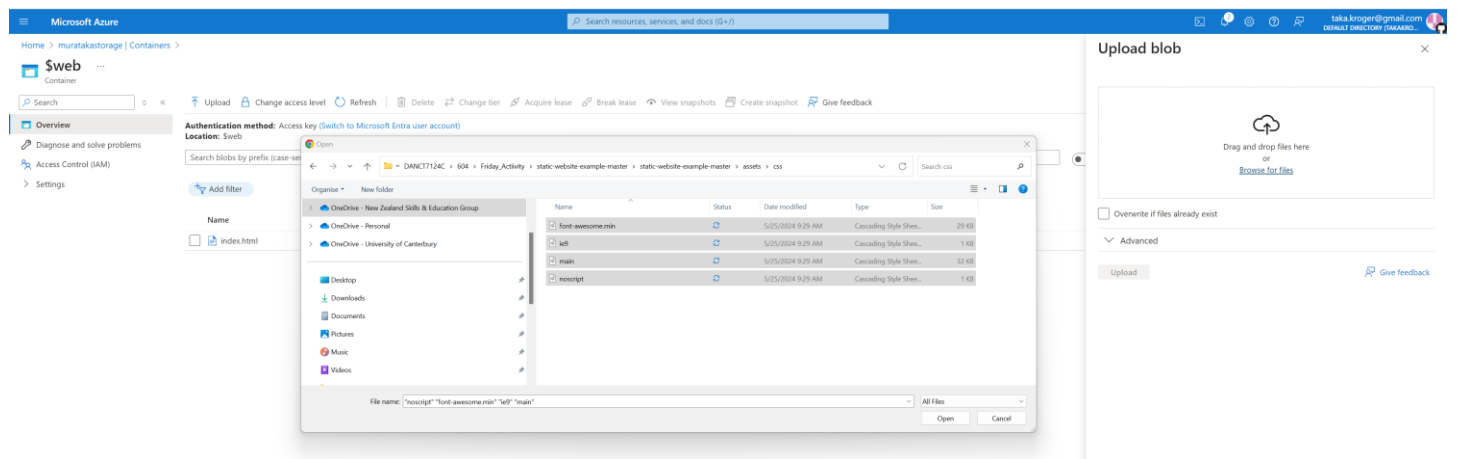


The screenshot shows the Microsoft Azure portal interface. The top navigation bar includes the Microsoft Azure logo, a search bar, and the user's profile. The main content area is titled '\$web | Container'. On the left, there is a sidebar with various navigation options. The main area displays the 'Overview' tab for the '\$web' container. The 'Authentication method' is set to 'Access key', and the 'Location' is 'Swb'. The 'Search blobs by prefix' field is empty, and the 'Show deleted blobs' toggle is off.

Name	Modified	Access tier	Archive status	Blob type	Size	Lease state
No results						



## 24. Move all CSS from assets folder into upload blob.



## 25. Move index.html into upload blob folder.

The screenshot displays the Microsoft Azure portal interface for a storage account named 'muratakastorage'. The left sidebar shows the 'Containers' section with a container named '\$web'. The main area shows the 'Overview' tab for the container, displaying a list of blobs. The 'Authentication method' is set to 'Access key (Switch to Microsoft Entra user account)'. The 'Location' is 'Web'. A search bar is present, and a table lists the blobs:

Name	Modified	Access tier	Archive status
index.html	25/05/2024, 5:37:28 pm	Hot (Inferred)	

On the right, the 'Upload blob' dialog is open, showing a message: '4 file(s) selected: font-awesome.min.css, ie9.css, main.css... Drag and drop files here or Browse for files'. Below this, there are checkboxes for 'Overwrite if files already exist' and 'Advanced', and an 'Upload' button.

In the second part of the screenshot, a file explorer window is open, showing the contents of the 'static-website-example-master' folder. The files listed are:

- assets
- error
- images
- index
- LICENSE.MD
- README.MD

The 'index' file is highlighted, and the 'File name' field at the bottom shows 'index'.

## 26. Move all js files from assets folder into upload blob folder.

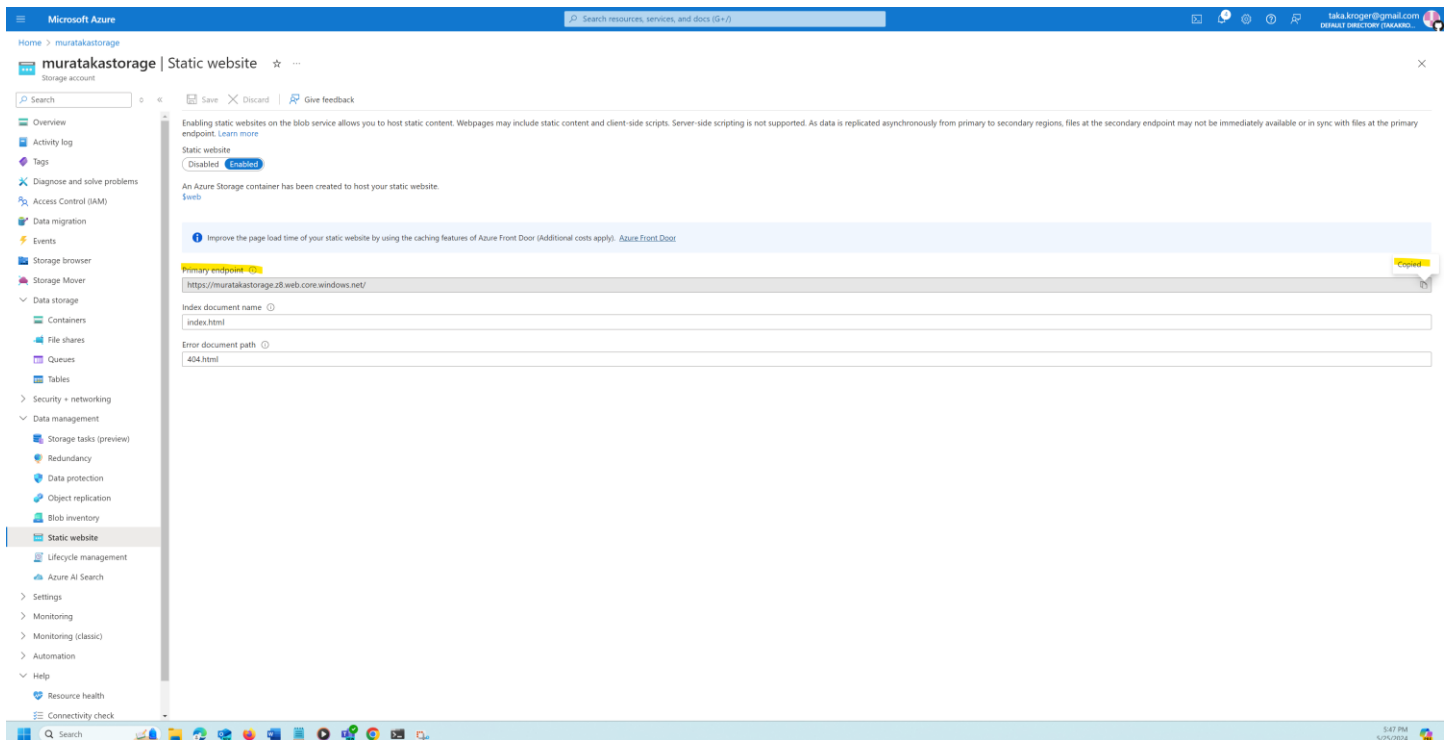
The screenshot shows the Microsoft Azure portal interface. On the left, the 'Containers' section is expanded, showing a container named 'Sweb'. The 'Overview' tab is selected. In the center, a file explorer window is open, displaying the contents of the 'assets' folder. The files listed are 'jquery.min', 'main', 'skel.min', and 'util'. On the right, the 'Upload blob' dialog is open, showing a large area for dragging and dropping files. Below the dialog, there is an 'Advanced' section with an 'Overwrite if files already exist' checkbox and an 'Upload' button.

## 27. So now, html, css, and js are added in one folder.

The screenshot shows the Microsoft Azure portal interface. On the left, the 'Containers' section is expanded, showing a container named 'Sweb'. The 'Overview' tab is selected. In the center, a table lists the contents of the container. The table has columns for Name, Modified, Access tier, Archive status, Blob type, Size, and Lease state. The files listed are 'font-awesome.min.css', 'ie9.css', 'index.html', 'jquery.min.js', 'main.css', 'main.js', 'noscript.css', 'skel.min.js', and 'util.js'.

Name	Modified	Access tier	Archive status	Blob type	Size	Lease state
font-awesome.min.css	25/05/2024, 5:42:31 pm	Hot (Inferred)		Block blob	28.38 KiB	Available
ie9.css	25/05/2024, 5:42:31 pm	Hot (Inferred)		Block blob	454 B	Available
index.html	25/05/2024, 5:37:28 pm	Hot (Inferred)		Block blob	14.18 KiB	Available
jquery.min.js	25/05/2024, 5:44:58 pm	Hot (Inferred)		Block blob	93.71 KiB	Available
main.css	25/05/2024, 5:42:31 pm	Hot (Inferred)		Block blob	31.86 KiB	Available
main.js	25/05/2024, 5:44:58 pm	Hot (Inferred)		Block blob	8.59 KiB	Available
noscript.css	25/05/2024, 5:42:31 pm	Hot (Inferred)		Block blob	205 B	Available
skel.min.js	25/05/2024, 5:44:58 pm	Hot (Inferred)		Block blob	8.87 KiB	Available
util.js	25/05/2024, 5:44:58 pm	Hot (Inferred)		Block blob	12.14 KiB	Available

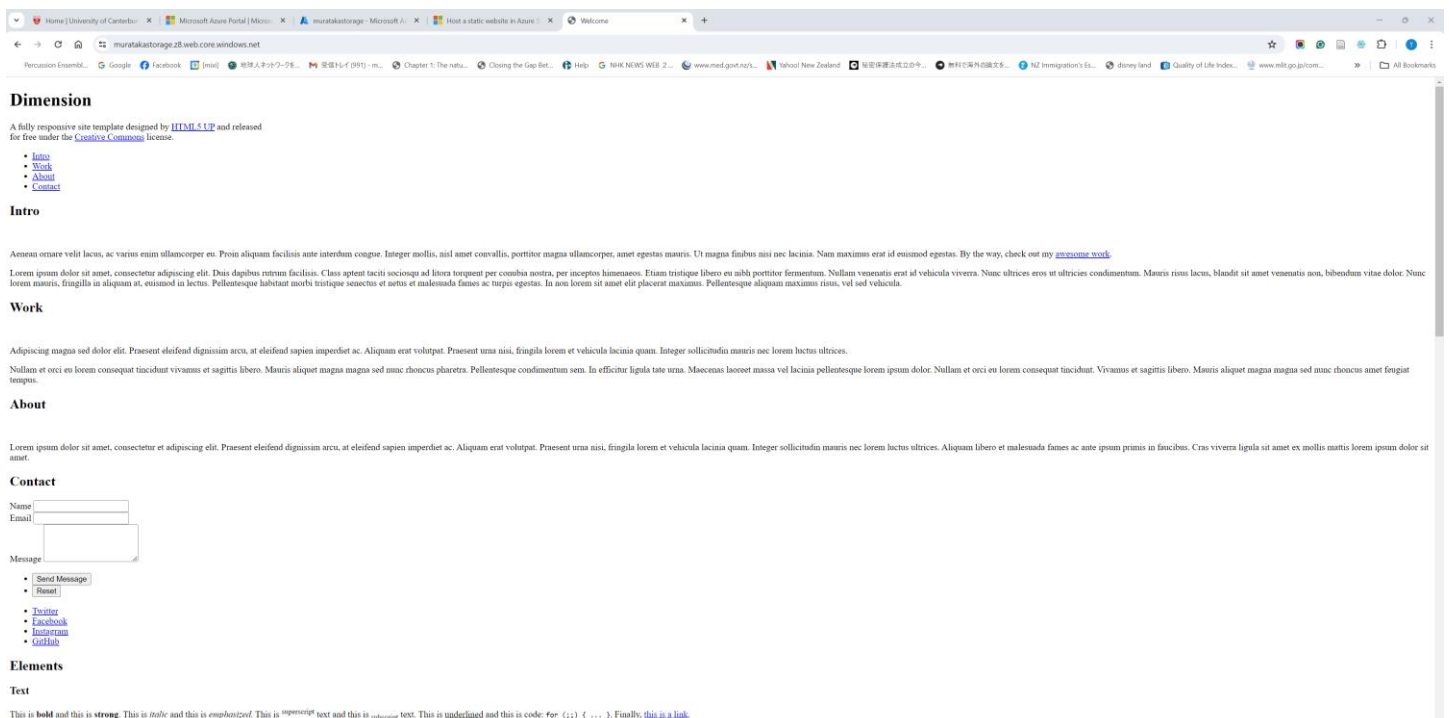
## 28.Data management→static website, then Copy the url from primary endpoint at static website.



The screenshot shows the Microsoft Azure portal interface. On the left, the navigation pane is open, showing the 'Static website' option under 'Data management'. The main pane displays the configuration for the 'muratakastorage' static website. It includes a toggle for 'Static website' (currently 'Enabled'), a note about the Azure Storage container, and a section for 'Primary endpoint' with the URL 'https://muratakastorage.z8.web.core.windows.net/'. Below this, there are input fields for 'Index document name' (set to 'index.html') and 'Error document path' (set to '404.html').

## 29. Open the new web-browser and past the url: <https://muratakastorage.z8.web.core.windows.net/>

The result of web context is as follows by snipping tool.(Currently hrl is not available so snap shot result is as bellows.



The screenshot shows a web browser window with the address bar displaying 'muratakastorage.z8.web.core.windows.net'. The page content is a placeholder static website with the following structure:

- Dimension**
  - A fully responsive site template designed by [HTML5 UP](#) and released for free under the [Creative Commons](#) license.
  - [Home](#)
  - [Work](#)
  - [About](#)
  - [Contact](#)
- Intro**

Amem ornare velit lacus, ac varius enim ullamcorper eu. Proin aliquam facilisis ante interdum congue. Integer mollis, nisl amet convallis, porttitor magna ullamcorper, amet egestas mauris. Ut magna finibus nisi nec lacinia. Nam maximus erat id enimod egestas. By the way, check out my [awesome work](#).

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Duis dapibus rutrum facilisis. Class aptent taciti sociosqu ad litora torquent per conubia nostra, per inceptos himenaeos. Etiam tristique libero eu nibh porttitor fermentum. Nullam venenatis erat id vehicula viverra. Nunc ultrices eros ut ultricies condimentum. Mauris risus lacus, blandit sit amet venenatis non, bibendum vitae dolor. Nunc lorem mauris, fringilla in aliquam at, euismod in lectus. Pellentesque habitant morbi tristique senectus et netus et malesuada fames ac turpis egestas. In non lorem sit amet elit placerat maximus. Pellentesque aliquam maximus risus, vel sed vehicula.
- Work**

Adipiscing magna sed dolor elit. Praesent eleifend dignissim arcu, at eleifend sapien imperdiet ac. Aliquam erat volutpat. Praesent urna nisi, fringila lorem et vehicula lacinia quam. Integer sollicitudin mauris nec lorem luctus ultrices.

Nullam et orci eu lorem consequat tincidunt vivamus et sagittis libero. Mauris aliquet magna magna sed nunc rhoncus pharetra. Pellentesque condimentum sem. In efficitur ligula tate urna. Maecenas laoreet massa vel lacinia pellentesque lorem ipsum dolor. Nullam et orci eu lorem consequat tincidunt. Vivamus et sagittis libero. Mauris aliquet magna magna sed nunc rhoncus amet fegiat tempus.
- About**

Lorem ipsum dolor sit amet, consectetur et adipiscing elit. Praesent eleifend dignissim arcu, at eleifend sapien imperdiet ac. Aliquam erat volutpat. Praesent urna nisi, fringila lorem et vehicula lacinia quam. Integer sollicitudin mauris nec lorem luctus ultrices. Aliquam libero et malesuada fames ac ante ipsum primis in faucibus. Cras viverra ligula sit amet ex mollis mattis lorem ipsum dolor sit amet.
- Contact**

Name

Email

Message

[Send Message](#)

[Reset](#)

[Twitter](#)

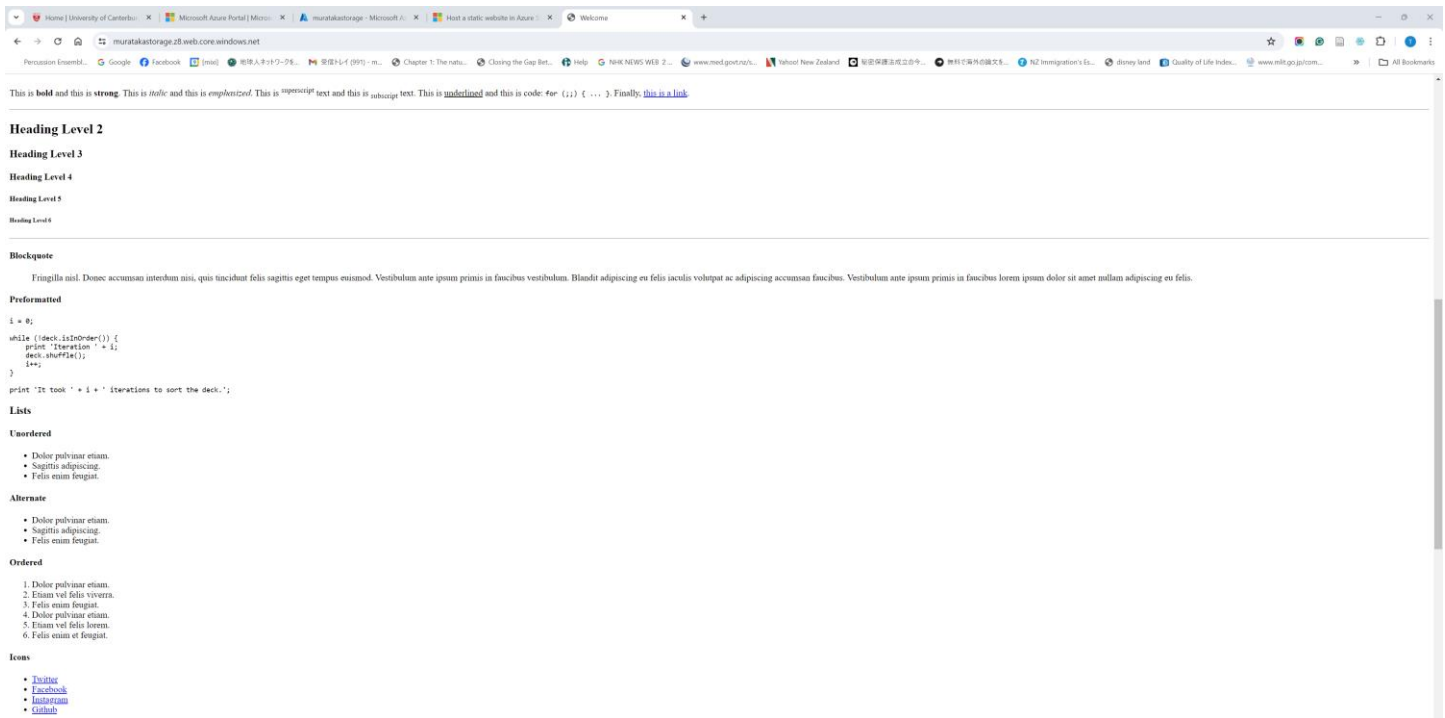
[Facebook](#)

[Instagram](#)

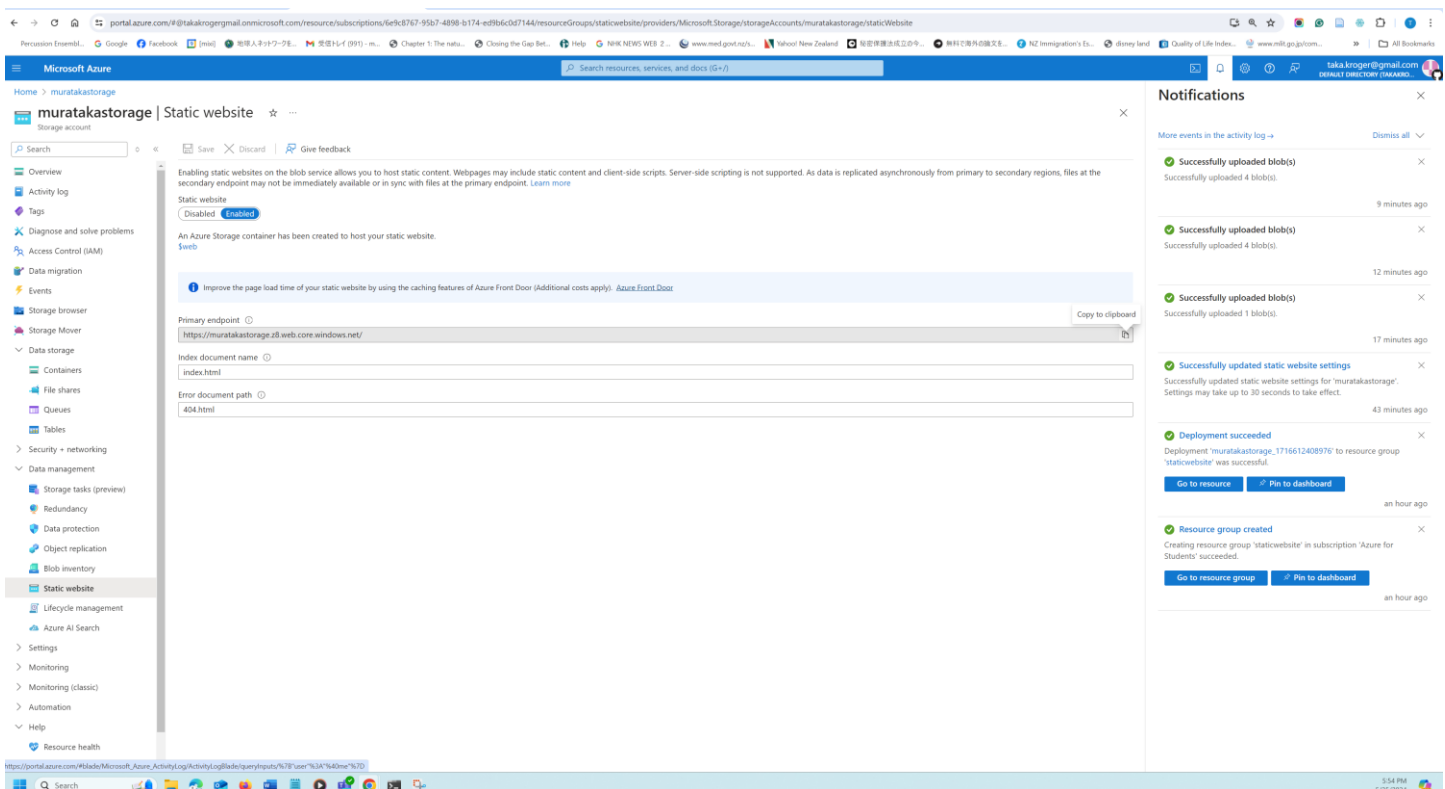
[Github](#)
- Elements**

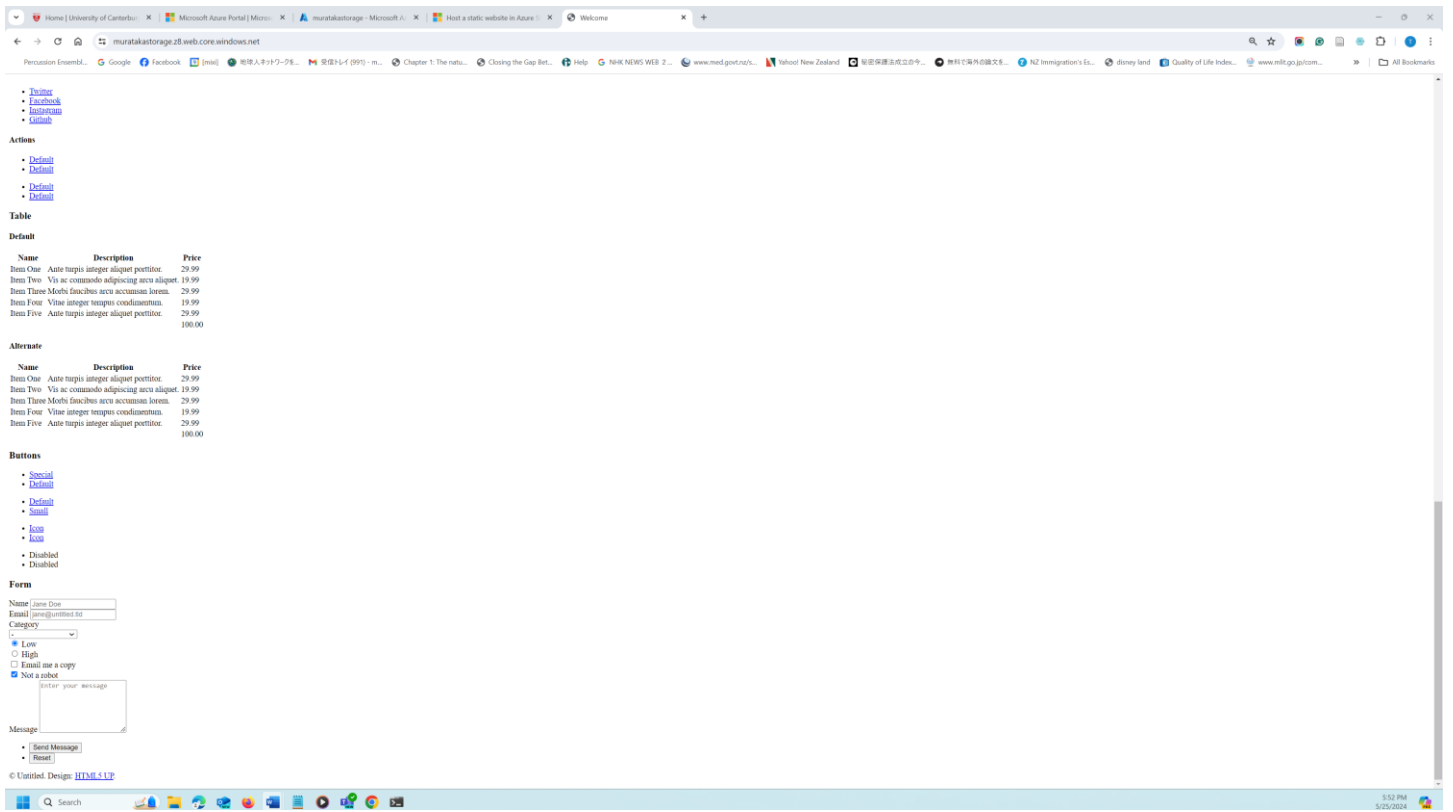
**Text**

This is **bold** and this is **strong**. This is *italic* and this is *emphasized*. This is <sup>superscript</sup> text and this is <sub>subscript</sub> text. This is underlined and this is code: `for ({} ) { ... }`. Finally, [this is a link](#).

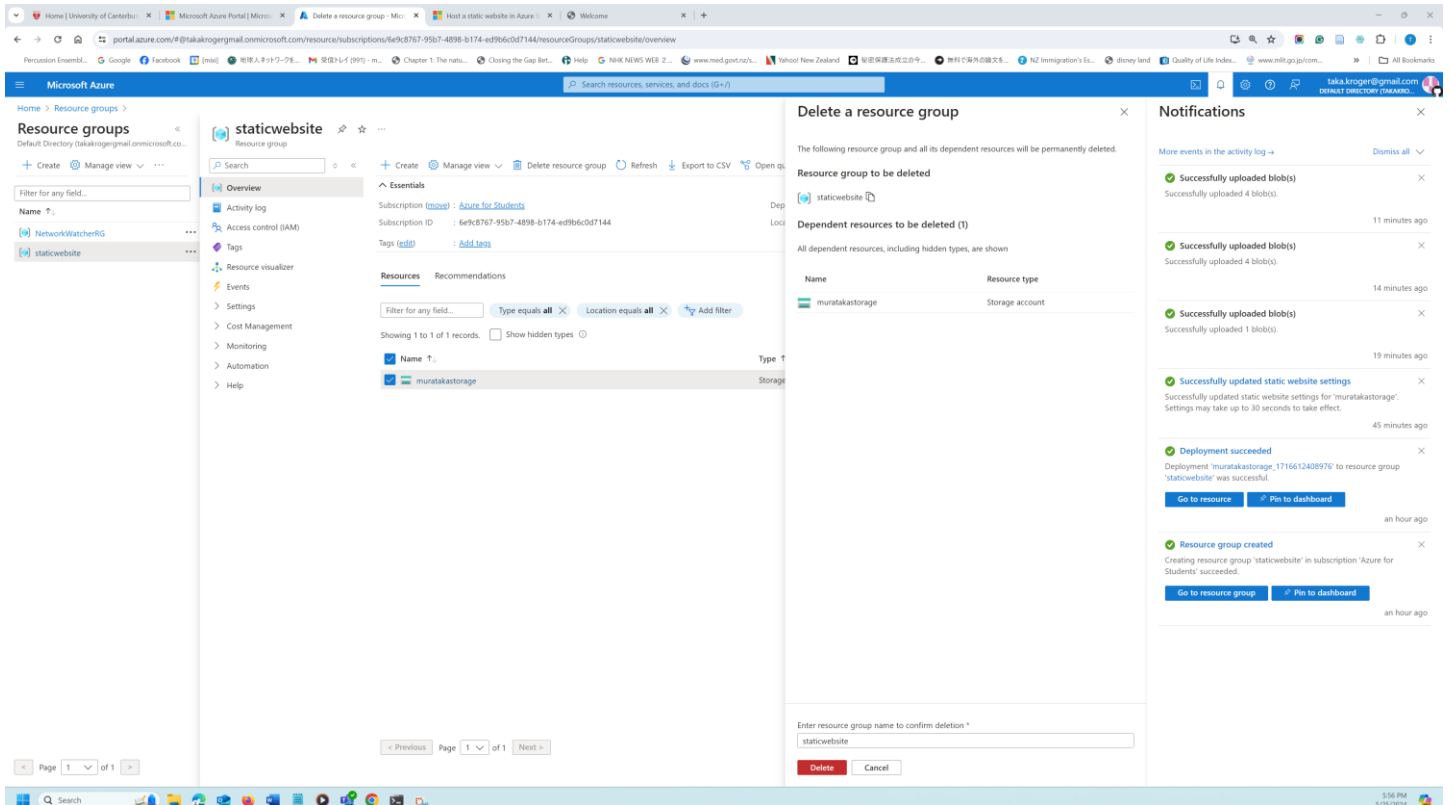


30. As evidence of deployment, here is the notification details.





31. In order to save the running cost in Azure portal, just deleted resources group.



## 32. All resource group are now empty.

The screenshot shows the Microsoft Azure portal interface. The main content area displays 'Resource groups' with a message: 'No resource groups to display. Try changing or clearing your filters.' Below this message are buttons for 'Create' and 'Learn more'. The right-hand sidebar contains a 'Notifications' panel with a list of recent events, including 'Deleted resource group NetworkWatcherRG', 'Deleted resource group staticwebsite', 'Successfully uploaded blob(s)', 'Successfully updated static website settings', 'Deployment succeeded', and 'Resource group created'. The top navigation bar includes the 'Microsoft Azure' logo and a search bar. The bottom status bar shows the time as 6:03 PM on 5/25/2024.

### Reference list:

- *Cloudacademy/static-website-example*. (2024). [CSS]. Cloud Academy, Inc.  
<https://github.com/cloudacademy/static-website-example> (Original work published 2016)
- stevenmatthew. (2023, May 11). *Host a static website in Azure Storage*.  
<https://learn.microsoft.com/en-us/azure/storage/blobs/storage-blob-static-website-how-to>
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