

## Akilandeshwari Srinivasan (451036)

### Lab 8 - CLCM3403

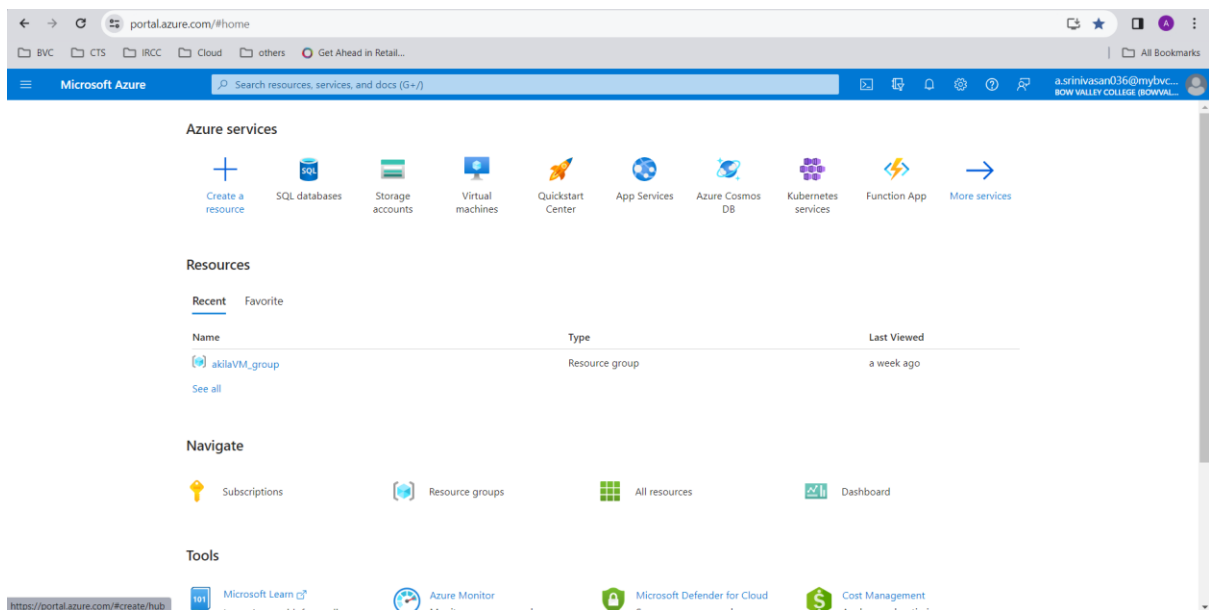
## Cloud Computing with Microsoft Azure

### Preparation:

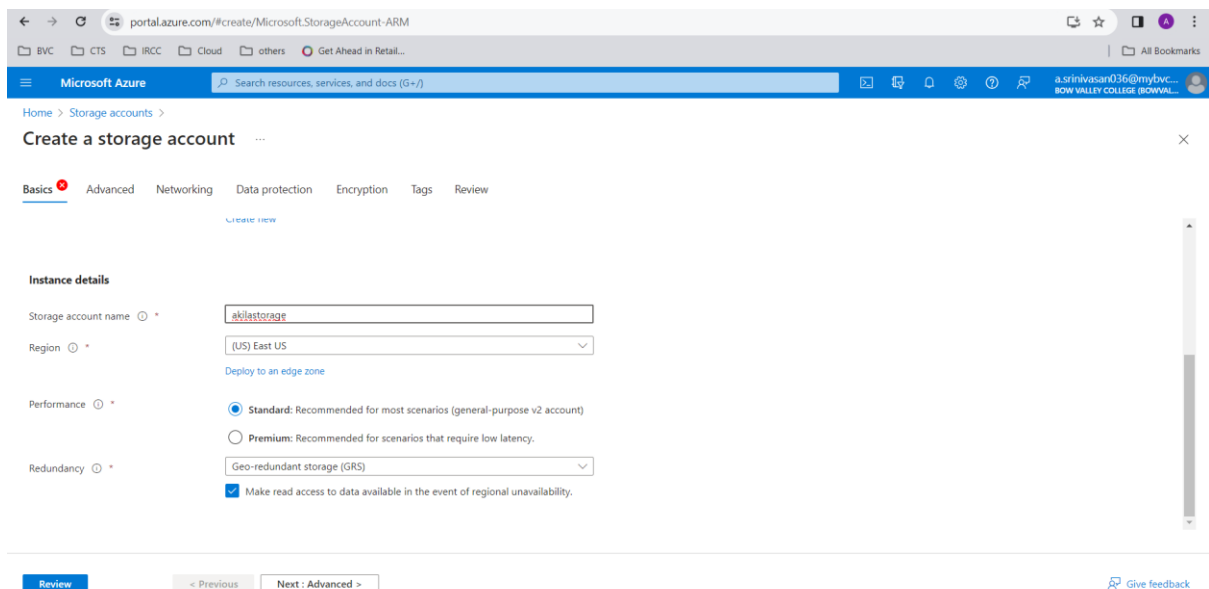
In the lab, we have to host the static website in Microsoft Azure using storage.

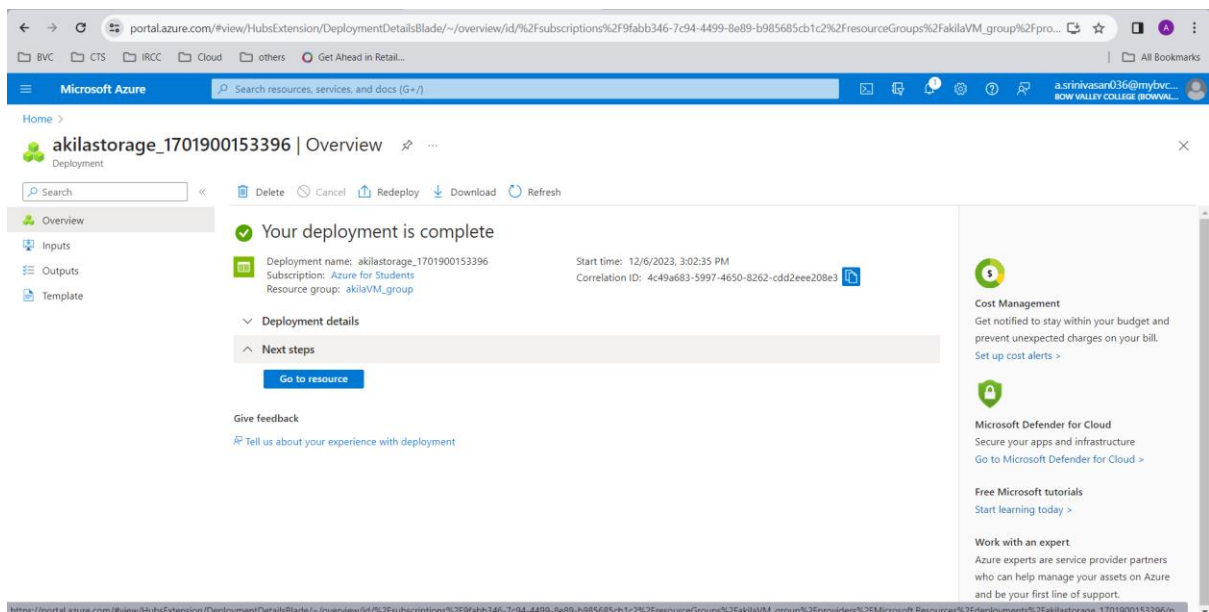
### Screenshots:

Create the storage resource.

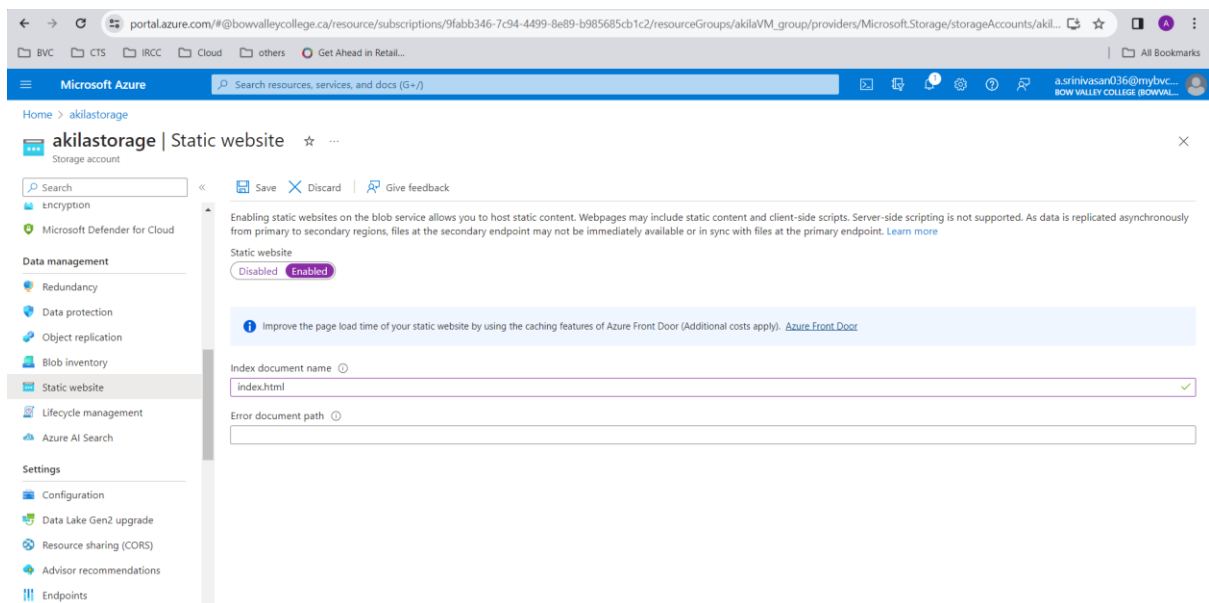


Name your storage and other configurations.





Once the storage is created, enable the static website.



Upload the files in the storage and select the container.

portal.azure.com/#@bowvalleycollege.ca/resource/subscriptions/9fab346-7c94-4499-8e89-b985685cb1c2/resourceGroups/akilavm\_group/providers/Microsoft.Storage/storageAccounts/akil...

Microsoft Azure

Home > akilastorage Storage account

Search

Overview

Activity log

Tags

Diagnose and solve problems

Access Control (IAM)

Data migration

Events

Storage browser

Storage Mover

Data storage

Containers

File shares

Queues

Tables

Security + networking

Mathematics

Upload

Open in Explorer

Delete

Move

Refresh

Open in mobile

CLI

Essentials

Resource group (move) : akilavm\_group

Location : eastus

Primary/Secondary Location : Primary: East US, Secondary: West US

Subscription (move) : Azure for Students

Subscription ID : 9fab346-7c94-4499-8e89-b985685cb1c2

Disk state : Primary: Available, Secondary: Available

Tags (edit) : Add tags

Properties

Monitoring

Capabilities (7)

Recommendations (0)

Tutorials

Tools + SDKs

Blob service

Hierarchical namespace : Disabled

Default access tier : Hot

Blob anonymous access : Enabled

Blob soft delete : Enabled (7 days)

Container soft delete : Enabled (7 days)

Versioning : Disabled

Performance

Replication

Account k

Provisioni

Created

Secu

Requ

open

Stora

Mini

Infra

Netw

Upload blob

1 file(s) selected: index.html

Drag and drop files here or [Browse for files](#)

Select an existing container

\$web

Create new

☐ Overwrite if files already exist

Advanced

Upload

Give feedback

akilastorage.z13.web.core.windows.net/soeul.html

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City  
City

State  
State

Zip  
Zip

☐ Agree to terms and conditions

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### **Importance of Upgrading:**

#### **Benefits of transitioning from a static to a dynamic website:**

Transitioning from a static to a dynamic website for XYZ Corporation offers several benefits. Dynamic websites allow for real-time updates, interactive features, and personalized content. This enhances user engagement, provides a more tailored experience, and makes it easier to manage and update information on the site efficiently.

#### **Advantages:**

- Dynamic websites enable features like interactive forms, real-time updates, and multimedia content, making the user experience more engaging and interactive.
- With dynamic websites, you can tailor content based on user preferences, behaviors, and demographics, providing a more personalized and relevant experience for each visitor.
- Dynamic websites facilitate seamless interaction with databases, allowing for dynamic data retrieval and display. This ensures that users receive the latest information and updates in real time.

#### **Client Advisory Report:**

- **Enhanced Security:** Upgrading ensures the latest security measures, protecting sensitive data and mitigating potential cyber threats.
- **Improved Performance:** Modern systems offer faster speeds and optimized performance, reducing downtime and enhancing overall efficiency.
- **Access to New Features:** Upgrades introduce advanced features and functionalities, enabling your business to stay competitive and meet evolving industry standards.
- **Better Scalability:** Upgraded systems provide the flexibility to scale operations seamlessly, accommodating business growth and evolving needs.
- **Enhanced User Experience:** The latest upgrades often come with user-friendly interfaces and improved workflows, fostering a positive user experience for both clients and employees.

### **Recommendation:**

- Implementing a dynamic homepage carousel showcasing featured products or services to capture immediate attention.
- Integrate an interactive chatbot for real-time customer support, enhancing user engagement and addressing queries promptly.
- Incorporate a user-specific recommendation engine based on browsing history, promoting personalized content, and increasing conversion rates.
- Utilize dynamic forms for streamlined customer feedback, ensuring a seamless and user-friendly interaction.
- Integrate a secure and user-friendly e-commerce platform with dynamic product catalogues and personalized recommendations, driving sales and customer satisfaction.

### **Upgrading the Static website to a Dynamic:**

- Migration to Azure Web Apps: Host the dynamic website on Azure Web Apps for scalability and easy deployment, ensuring seamless transition and efficient management.
- Database Integration with Azure SQL Database: Utilize Azure SQL Database to store and manage dynamic content, providing a secure and scalable solution for data storage.
- Implement Azure Functions for Serverless Architecture: Leverage Azure Functions for specific functionalities, enabling a serverless architecture for cost-effective and scalable execution.
- Integrate Azure CDN for Content Delivery: Enhance website performance and user experience by incorporating Azure Content Delivery Network (CDN) for efficient content delivery globally.
- Utilize Azure DevOps for Continuous Integration and Deployment: Implement Azure DevOps for automated and continuous deployment, streamlining the development process and ensuring rapid updates.

### **Azure services for Dynamic Content:**

- Azure App Service: Utilize Azure App Service for hosting the dynamic website, providing a scalable and fully managed platform with automatic scaling options.
- Azure SQL Database: Implement Azure SQL Database for dynamic content storage, ensuring scalability, high availability, and simplified management.
- Azure Functions: Leverage Azure Functions for specific dynamic functionalities, adopting a serverless approach for scalability and ease of maintenance.
- Azure Content Delivery Network (CDN): Integrate Azure CDN for efficient content delivery, enhancing scalability and improving the performance of dynamic content globally.
- Azure Monitor and Azure Autoscale: Use Azure Monitor for proactive monitoring and Azure Autoscale for automatic scaling based on demand, ensuring optimal performance and resource utilization.