WEB TECHNOLOGIES

IT 5501

MINI PROJECT : CLOUD DEPLOYMENT

(USING IBM CLOUD OBJECT STORAGE)

Team Members

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Link of the website : Hiring Management System (appdomain.cloud)

Deploying Web Applications in the Cloud:

Deploying web applications in the cloud offers unparalleled advantages in terms of scalability, accessibility and reliability. Leading platforms like AWS, Azure, and Google Cloud offer a spectrum of deployment services such as AWS Elastic Beanstalk, Azure App Service, and Google App Engine.

Hiring Management System:

The Hiring Management System is made using basic web tools like HTML, CSS, and JavaScript. It does important things like making sure only authorized people can log in (like admins). When you check the home page, you'll see a list of jobs available. If you want to apply for a job, there's a simple form to fill out. And if you need to get in touch, there's a contact section just for that.

Hosting on IBM Cloud:

Hosting the Hiring Management System on IBM Cloud brings reliability and security. IBM Cloud offers services like Cloud Foundry for deploying and managing applications effortlessly. Additionally, services like Kubernetes provide scalable and flexible container orchestration. With Cloud Object Storage, the data, including resumes and application details, stays secure and easily accessible, enhancing the overall performance and resilience of the hiring application.

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- Compute Infrastructure — includes its bare metal servers (single-tenant servers that are highly customizable), virtual servers, GPU computing, POWER servers (based on IBM’s POWER architecture) and server software.

- Compute Services — includes OpenWhisk serverless computing, containers and Cloud Foundry runtimes.

- Storage — includes object, block and file storage, as well as server-backup capabilities.

- Watson — includes IBM's artificial intelligence and machine learning services, which it calls "cognitive computing," such as Discovery search and content analytics, Conversation natural language services and speech-to-text.
- Data and analytics — includes data services, analytics services, big data hosting, Cloudera hosting, MongoDB hosting and Riak hosting.
- Internet of Things — includes IBM's IoT platform and its IoT starter packages.
- Security — includes tools for securing cloud environments, such as a firewall, hardware security modules (physical devices with key management capabilities), Intel Trusted Execution Technology, security software and SSL certificates.
- DevOps — includes the Eclipse IDE, continuous delivery tools and availability monitoring.

4. Cloud Object Storage of IBM

Scalable Storage:

IBM Cloud Object Storage provides a highly scalable solution, allowing to store and retrieve vast amounts of data as application's needs evolve.

Durable and Resilient:

Data is stored redundantly across multiple locations, ensuring high durability and availability. This resilience helps safeguard against data loss and enhances the overall reliability of the application.

Flexible Storage Classes:

IBM Cloud Object Storage offers different storage classes, allowing to tailor storage strategy based on the access frequency and performance requirements of the data.

Security Features:

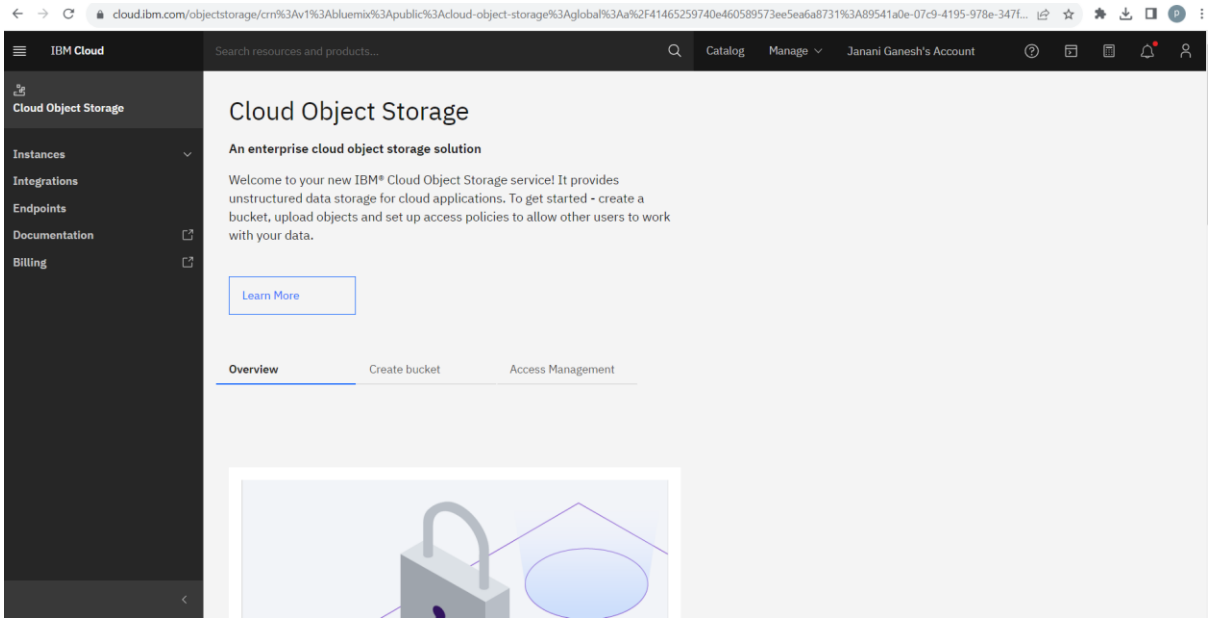
With robust security measures, including server-side encryption and access controls, IBM Cloud Object Storage ensures the confidentiality and integrity of the stored data, meeting compliance standards and bolstering data protection.

Integrated Services:

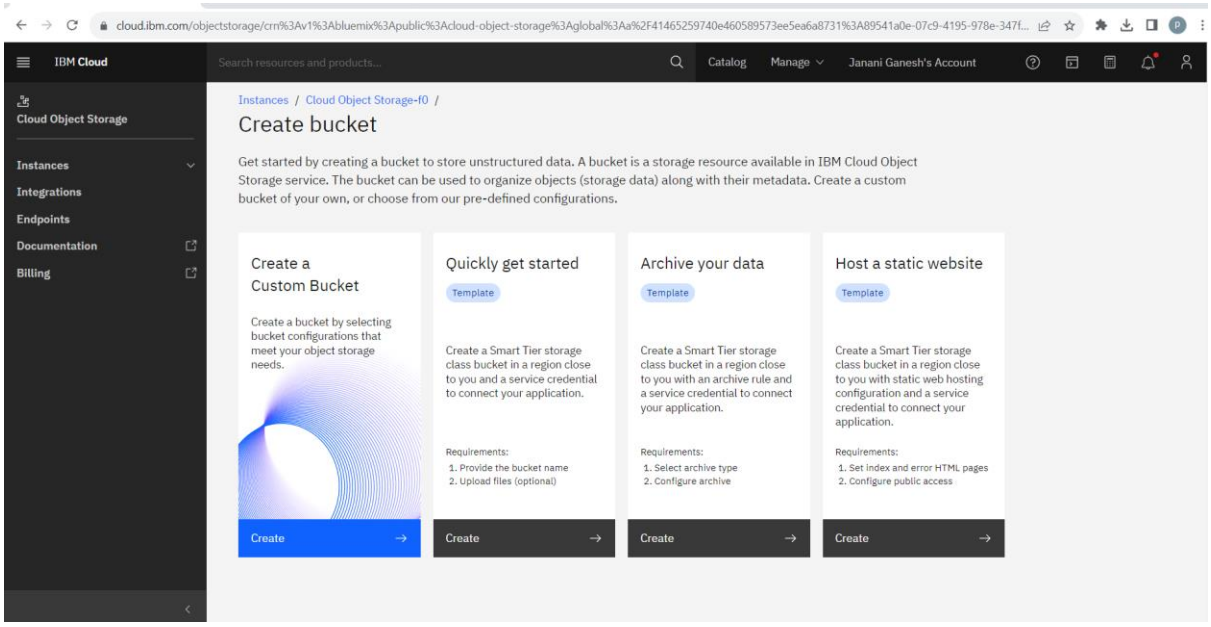
Seamlessly integrate Cloud Object Storage with other IBM Cloud services, enabling a cohesive ecosystem. This integration enhances the overall functionality of the application, providing a comprehensive solution for data storage and management.

STEPS / SCREENSHOTS:

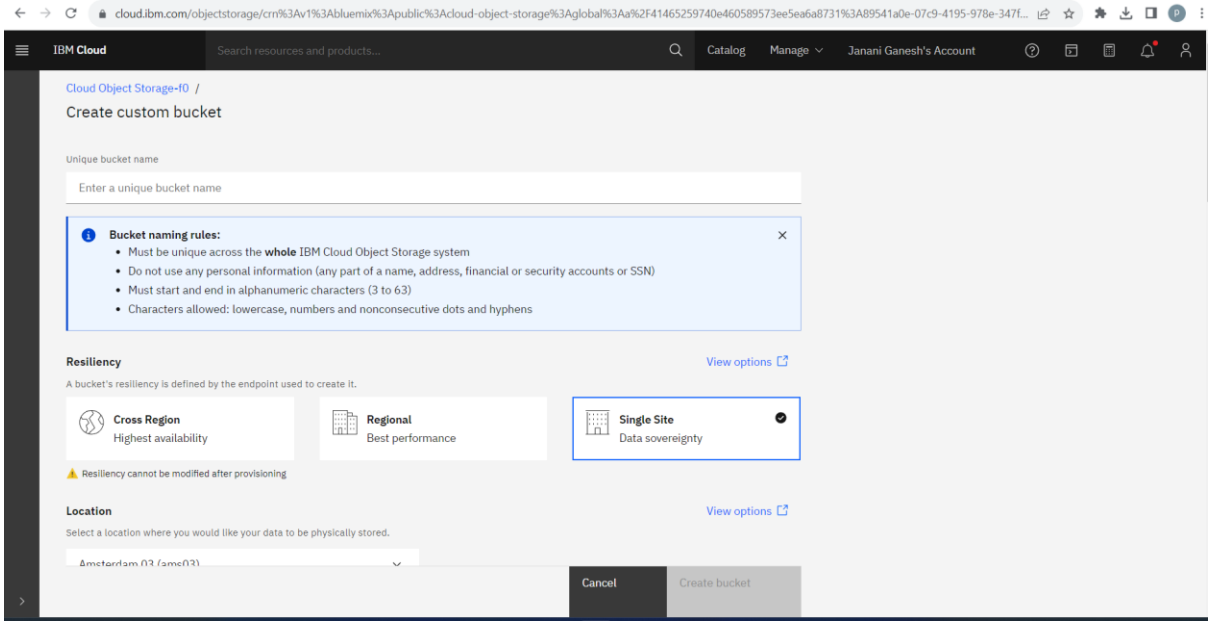
1. **Catalog → Cloud Object Storage :**



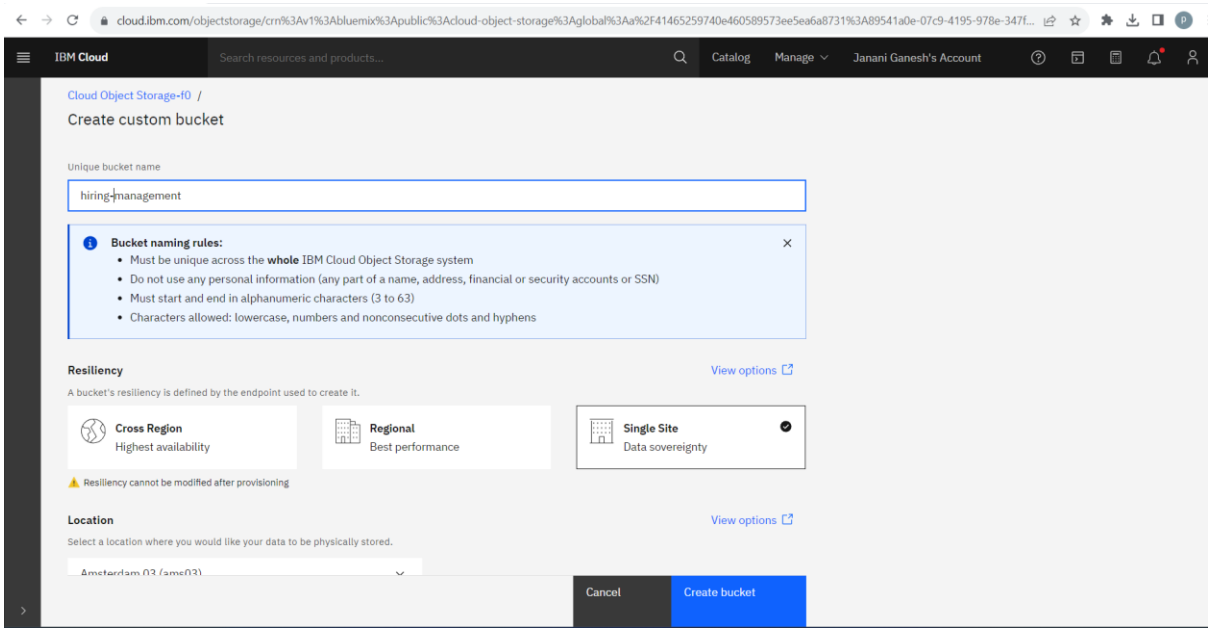
2. Create bucket instance :



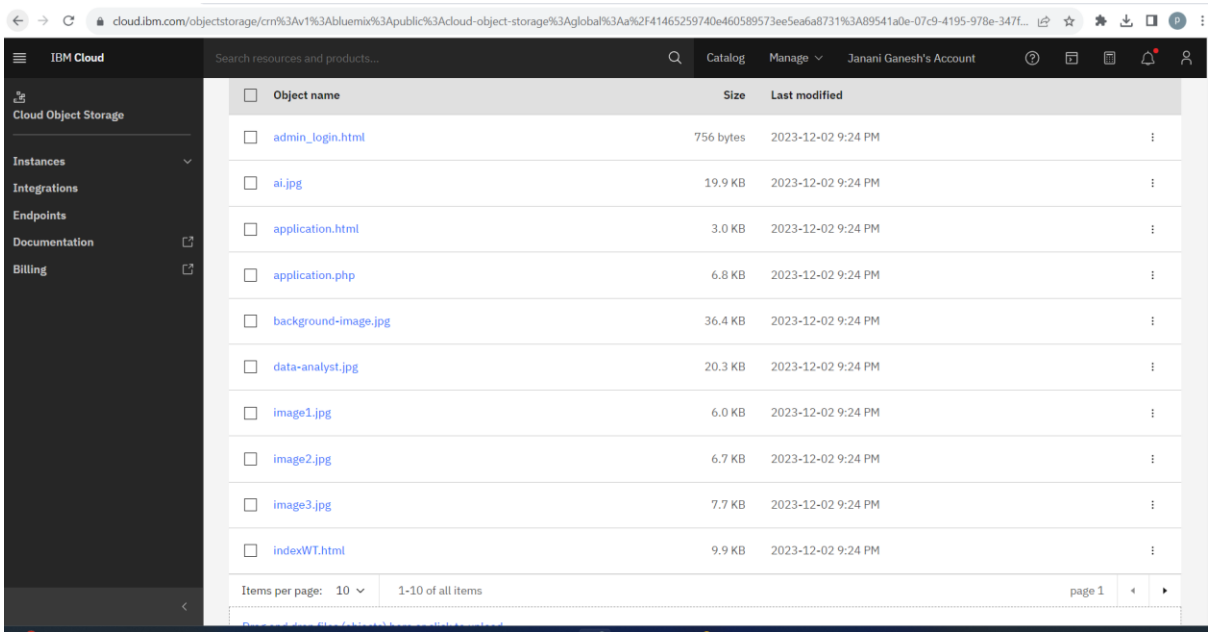
3. Choose Resiliency options:



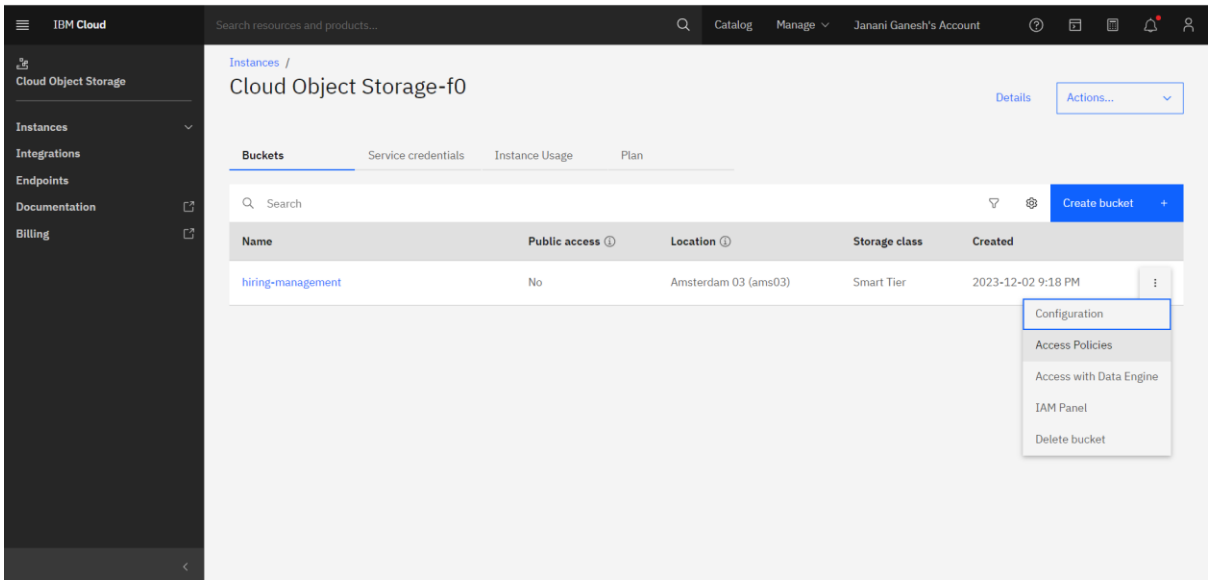
4. Give name for bucket :

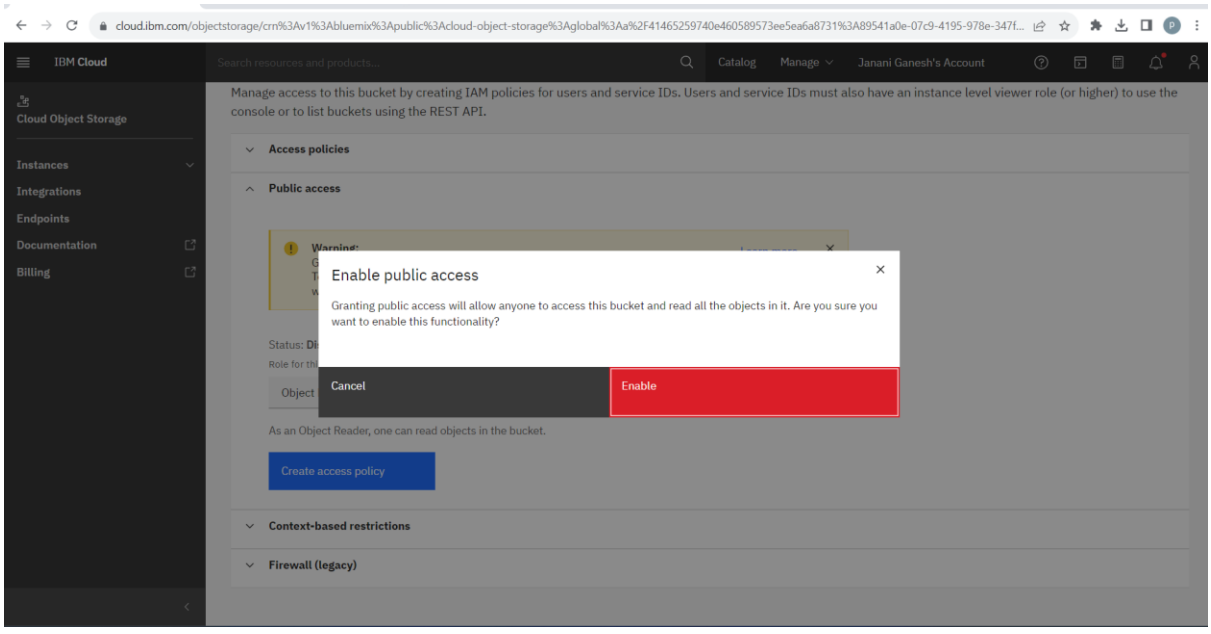


5. Upload the objects(of website to be deployed) in the bucket:

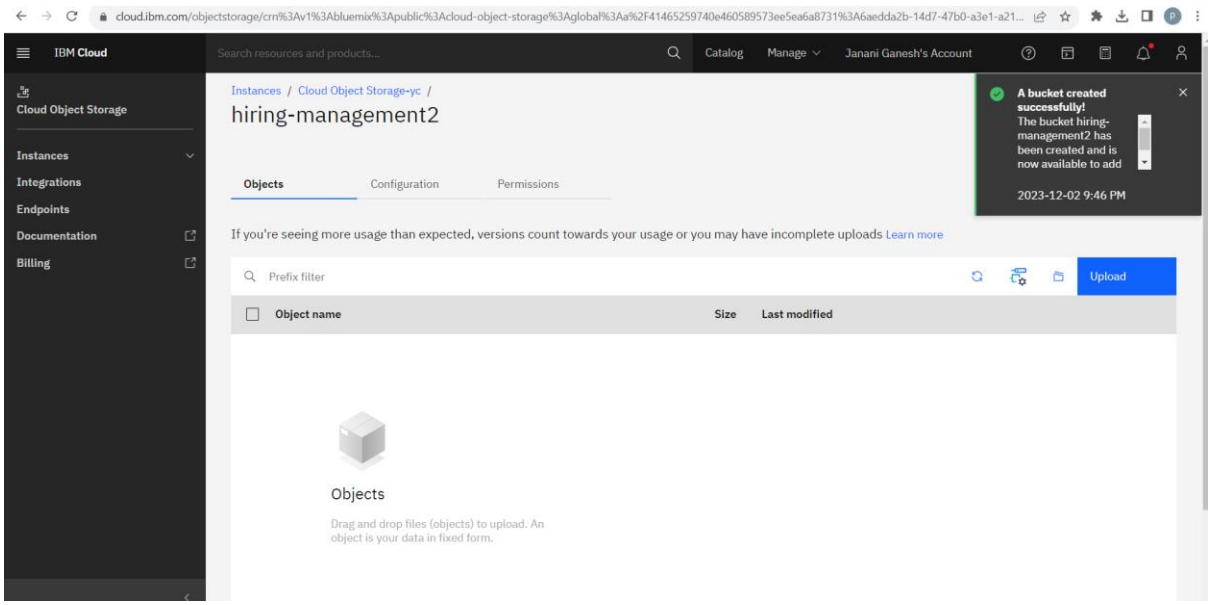


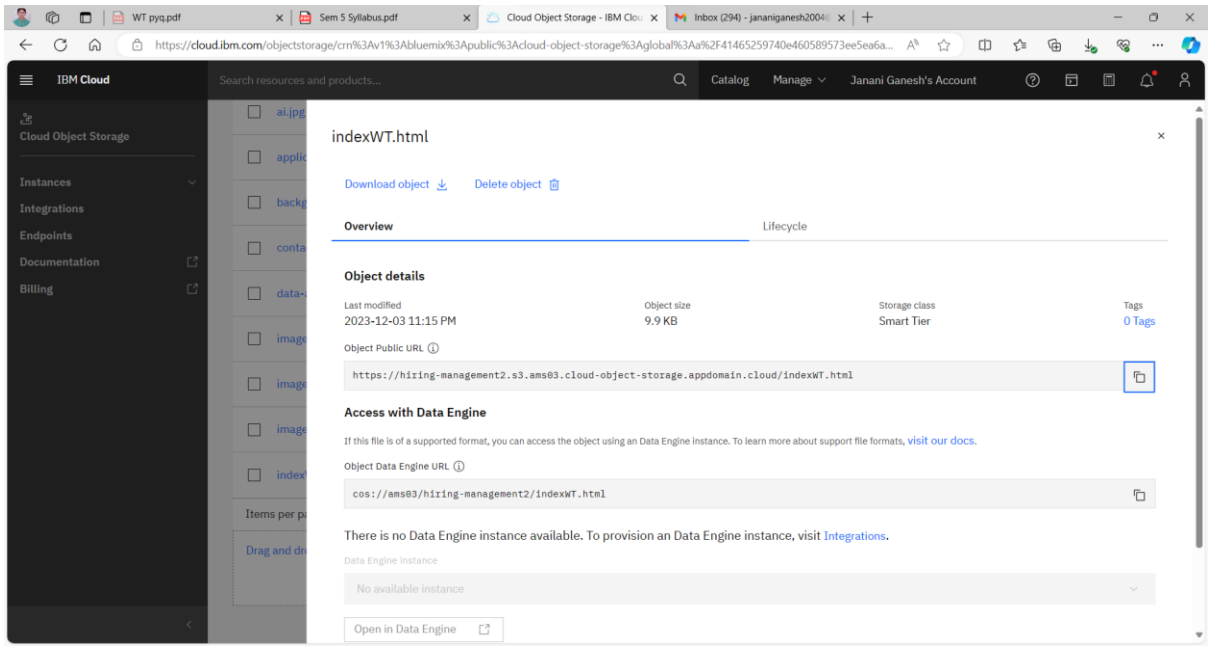
6. Configuring: (public access enabling)



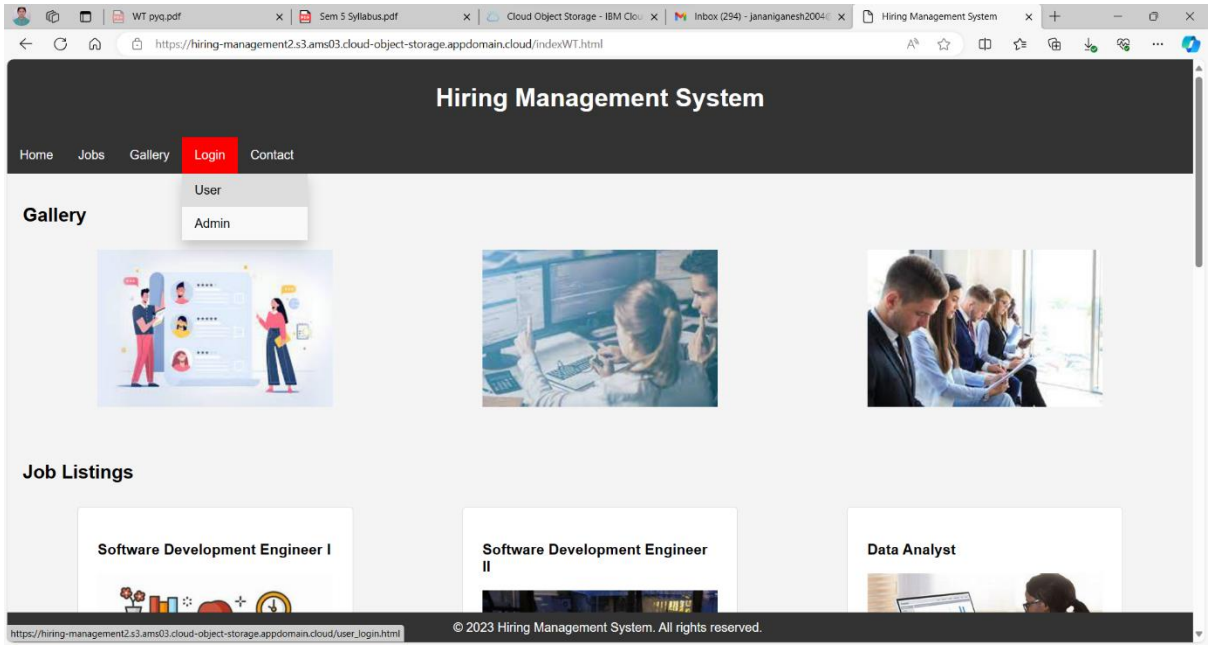


7. Copy the generated link, test the deployment :





Home Page:


Hiring Management System
Home
Jobs
Gallery
Login
Contact
User
Admin
Gallery
Job Listings
Software Development Engineer I
Software Development Engineer II
Data Analyst
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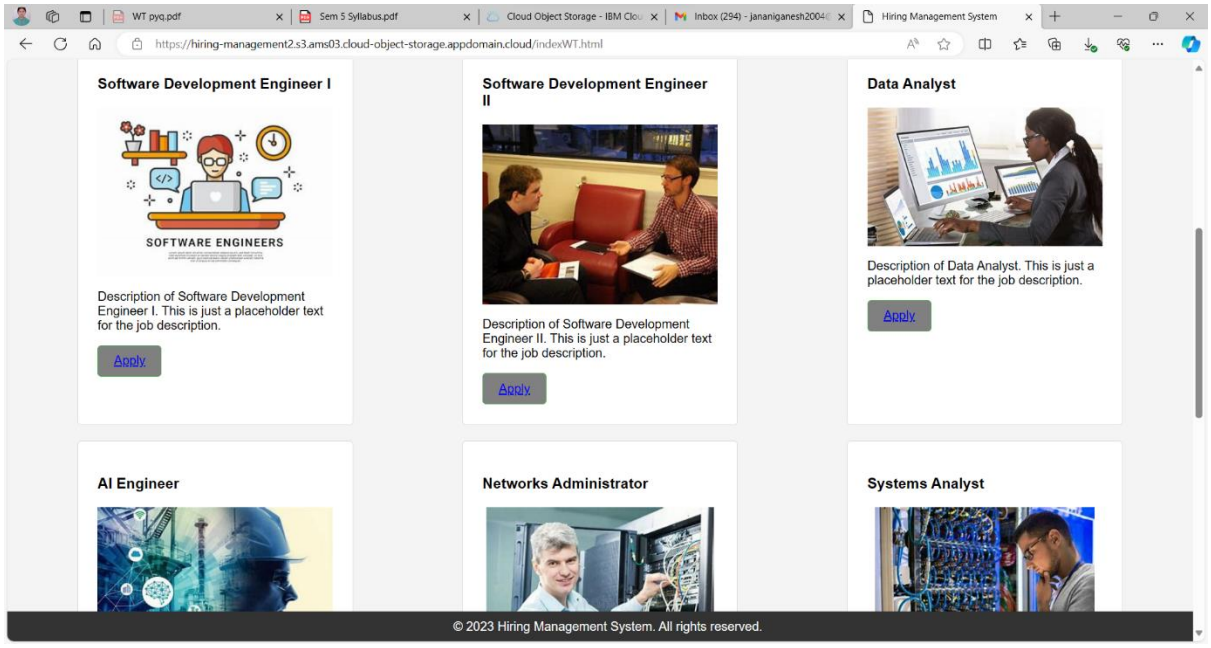
Software Development Engineer I
SOFTWARE ENGINEERS
Description of Software Development Engineer I. This is just a placeholder text for the job description.
Apply
Software Development Engineer II
Description of Software Development Engineer II. This is just a placeholder text for the job description.
Apply
Data Analyst
Description of Data Analyst. This is just a placeholder text for the job description.
Apply
AI Engineer
Networks Administrator
Systems Analyst
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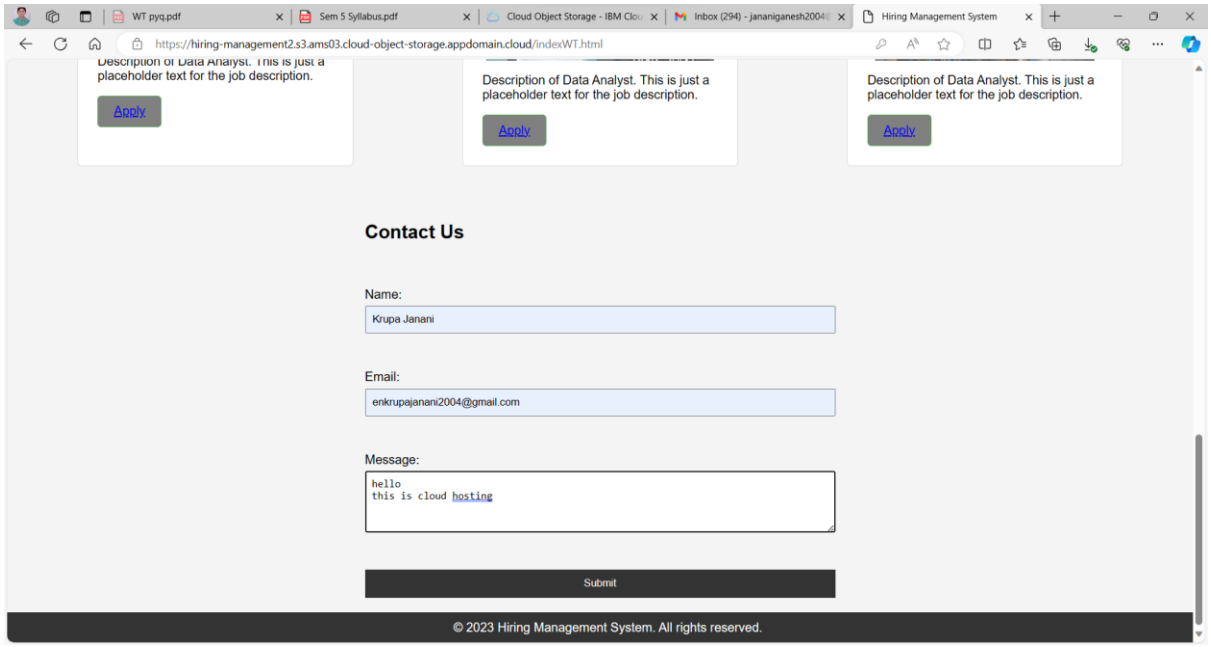
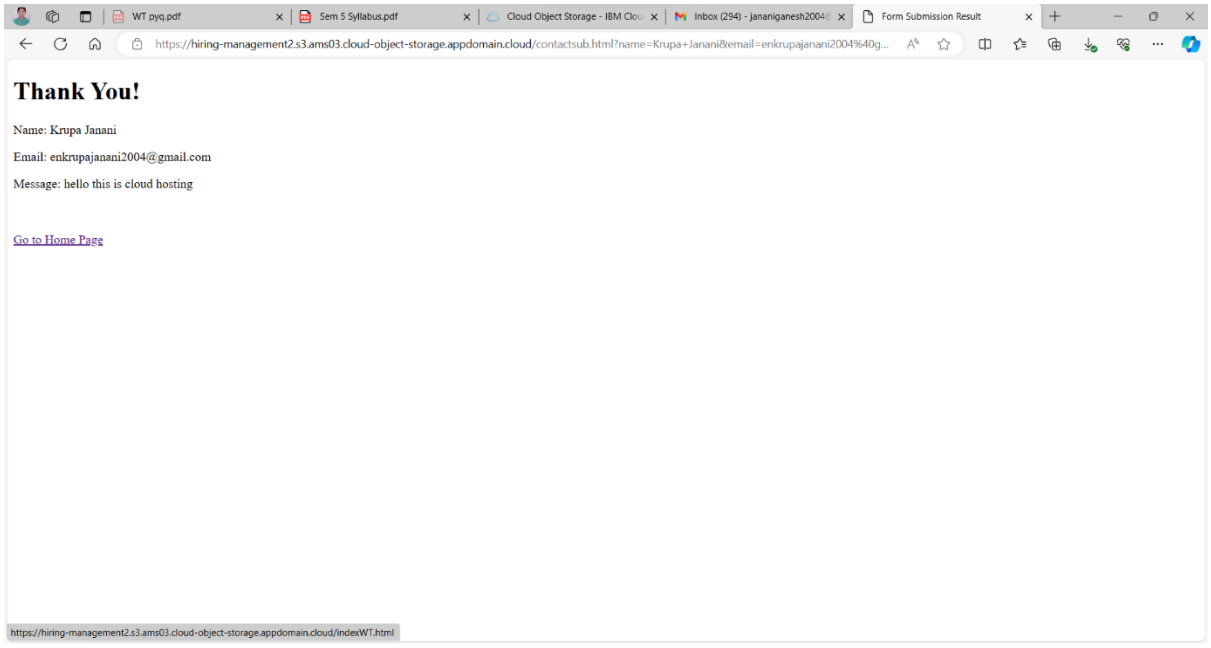
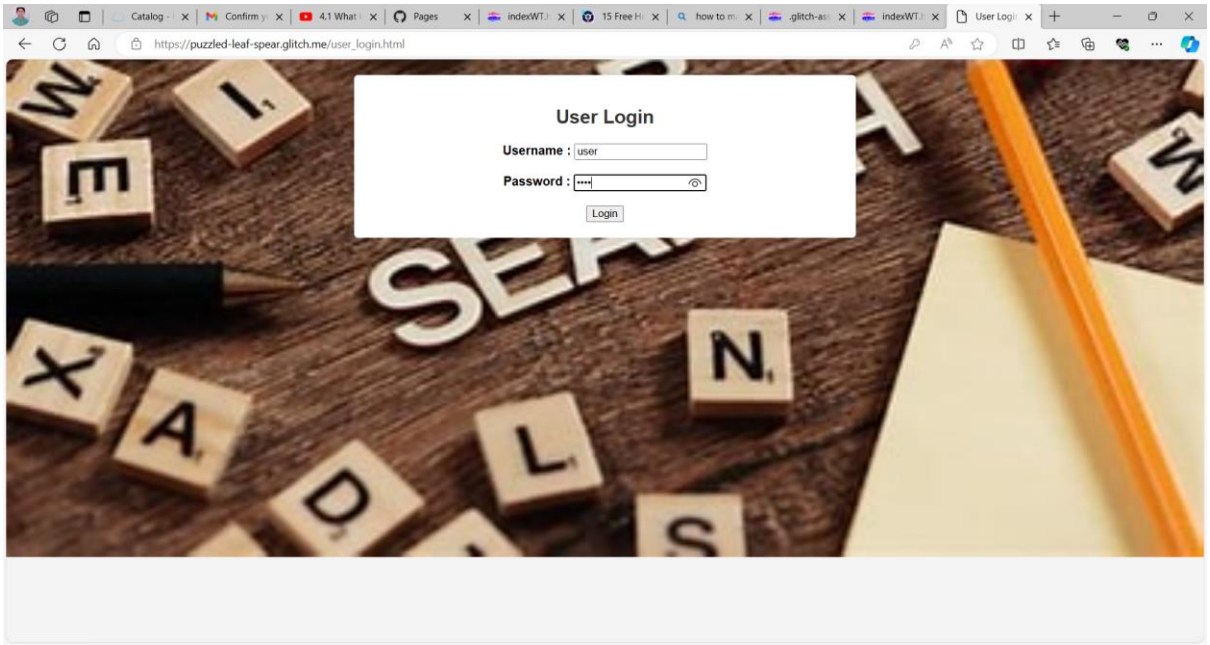
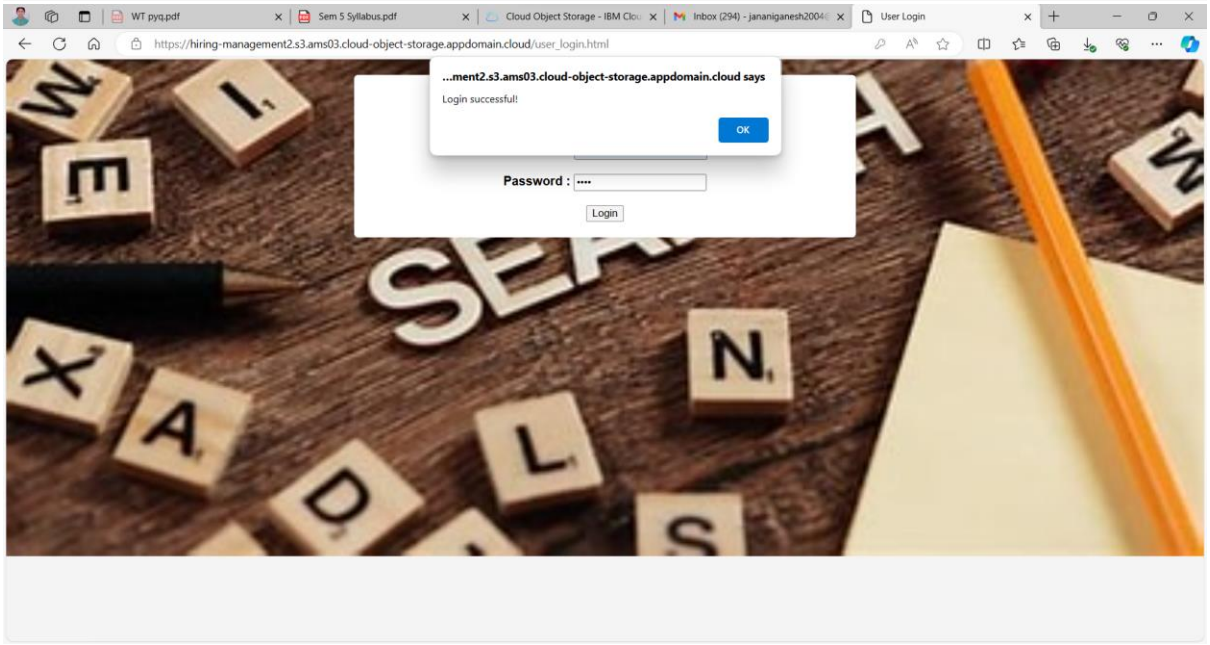
Contact section :



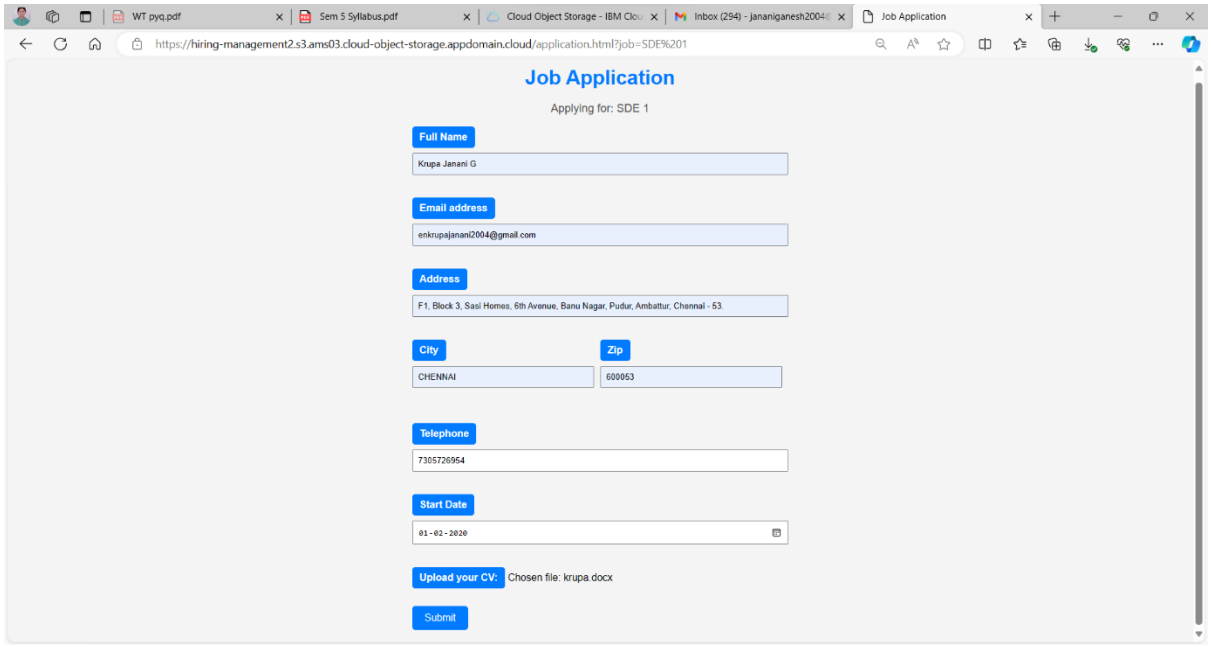


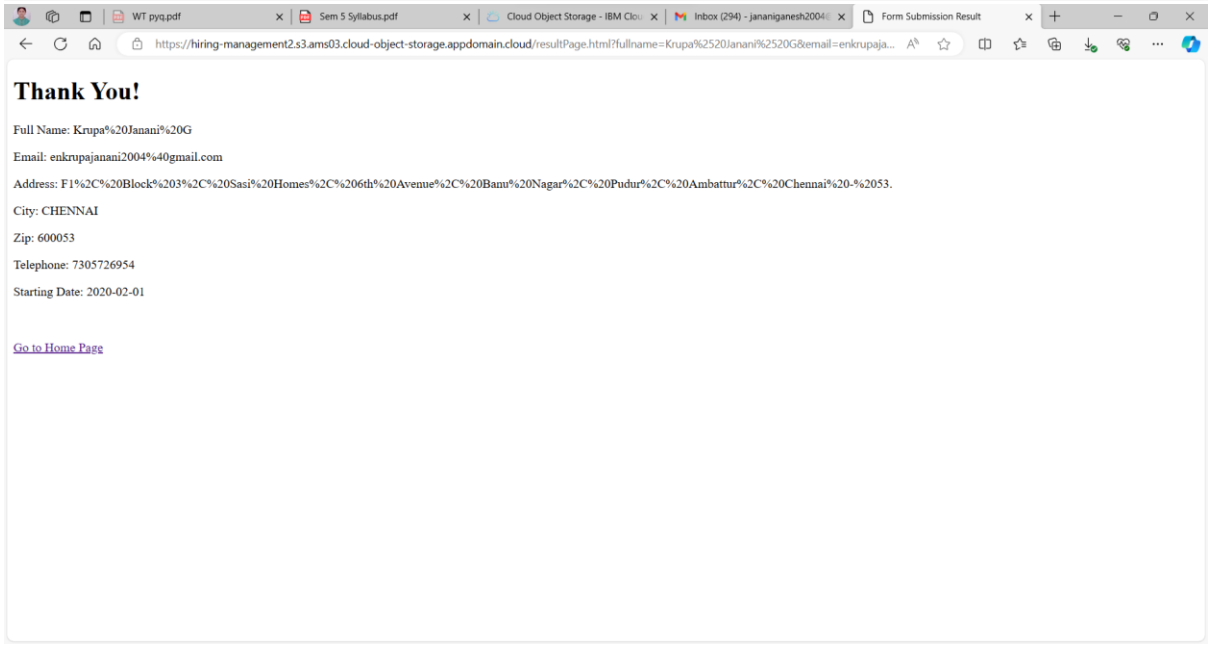
User Login section :





Application form :





Conclusion :

Thus, the simple Hiring Management System Website was deployed over cloud using IBM's Cloud Object Storage service.