

EXP NO 24. Create a Storage service using any Public Cloud Service Provider (Azure/GCP/AWS) and check the public accessibility of the stored file to demonstrate Storage as a Service.

AIM:

To Demonstrate Storage as a Service (SaaS) create and configure a new VM Image in any Public Cloud Service Provider using Azure.

Procedure:

Step 1: Log in to Azure

- Go to <https://portal.azure.com> and sign in.

Step 2: Create a Resource Group

- Click Resource Groups → + Create
- Name: SaaS-Storage-RG
- Select nearest Region
- Click Review + Create → Create

Step 3: Create a Storage Account

- Click Create a Resource → Storage → Storage Account
- Fill details:
 - Resource Group: SaaS-Storage-RG ○
 - Storage Account Name:
saasdemostorage123 ○
 - Performance:
Standard, Replication: LRS
- Click Review + Create → Create

Step 4: Create Container & Upload File

- Open the storage account → Containers → + Container → Name: mycontainer
- Open mycontainer → Click Upload → Select a file

Step 5: Access File Publicly

- Click the uploaded file → Generate SAS / URL
- Copy the link → Open in browser or share

Design:

The image displays two screenshots of the Microsoft Azure portal interface, showing the 'Resource groups' page and the 'Create a resource group' wizard.

Top Screenshot: Resource groups page

The top screenshot shows the 'Resource groups' page in the Azure portal. The page title is 'Resource groups' and the subtitle is 'Default Directory (ngovardhanreddy9381@gmail996.onmicrosoft.com)'. The page includes a 'Create' button, a 'Manage view' dropdown, a 'Refresh' button, an 'Export to CSV' button, an 'Open query' button, an 'Assign tags' button, and a 'Group by none' dropdown. A 'Create new resource group' button is also visible, with a tooltip that says 'version of Browse experience. Click here to access the old experience.' Below the buttons is a search bar 'Filter for any field...' and a 'Subscription equals all' button. A table lists resource groups with columns 'Name', 'Subscription', and 'Location'. The table shows 9 resource groups, with the first 5 visible: 'DefaultResourceGroup-CID', 'DefaultResourceGroup-EA', 'DefaultResourceGroup-null', 'IaaS-Demo-RG', and 'MyWebRG'. The 'Showing 1 - 9 of 9. Display count: auto' text is at the bottom of the table. A 'Give feedback' button is at the bottom right of the table.

Bottom Screenshot: Create a resource group wizard

The bottom screenshot shows the 'Create a resource group' wizard. The page title is 'Create a resource group'. The 'Basics' tab is selected, and the 'Review + create' tab is also visible. The 'Resource group' section describes the resource group as a container that holds related resources for an Azure solution. The 'Subscription' dropdown is set to 'Azure for Students'. The 'Resource group name' text box contains 'SaaS-storage-RG'. The 'Region' dropdown is set to '(Asia Pacific) East Asia'. The 'Previous', 'Next', and 'Review + create' buttons are at the bottom of the wizard.

Notifications

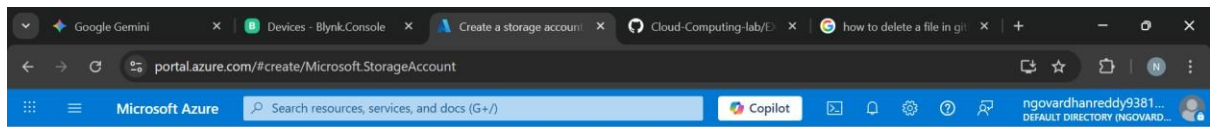
The notifications panel on the right side of both screenshots shows the following events:

- Save code settings**: Successfully setup GitHub Action build and deployment pipeline. 31 minutes ago.
- Deployment succeeded**: Deployment 'Microsoft.Web-WebApp-Portal-a6c6f389-87cf' to resource group 'PaaS-Flask-RG' was successful. an hour ago.
- Resource group created**: Creating resource group 'PaaS-Flask-RG' in subscription 'Azure for Students' succeeded. an hour ago.

Microsoft Azure portal interface showing the "Create a resource group" page. The page is divided into "Basics" and "Tags" sections. The "Basics" section shows the subscription "Azure for Students", resource group name "SaaS-storage-RG", and region "East Asia". The "Tags" section shows "None". The "Review + create" tab is selected. A "Notifications" panel on the right shows three notifications: "Save code settings" (32 minutes ago), "Deployment succeeded" (an hour ago), and "Resource group created" (an hour ago). The "Create" button is visible at the bottom.

Microsoft Azure portal interface showing the "Create a resource" page. The page displays a list of services and marketplace items, including Virtual network, Key Vault, Virtual machine, Storage account, Data Factory, and Logic App. The "Storage account" item is highlighted. The "Notifications" panel on the right shows three notifications: "Save code settings" (33 minutes ago), "Deployment succeeded" (an hour ago), and "Resource group created" (an hour ago). The "Create" button is visible at the bottom.

The screenshot shows the 'Create a storage account' page in the Microsoft Azure portal. The top navigation bar includes the Microsoft Azure logo, a search bar, and a Copilot button. The breadcrumb trail indicates the user is in 'All services > Create a resource'. The main heading is 'Create a storage account'. The 'Instance details' section contains several configuration options: 'Resource group' is set to 'saas-storage-rg' with a 'Create new' link; 'Storage account name' is 'saasdemostorage123'; 'Region' is '(Asia Pacific) East Asia' with a 'Deploy to an Azure Extended Zone' link; 'Preferred storage type' is 'Choose preferred storage type'; 'Performance' has 'Standard' selected (recommended for most scenarios) and 'Premium' (recommended for low latency) as an option; 'Redundancy' is 'Locally-redundant storage (LRS)'. At the bottom, there are 'Previous', 'Next', and 'Review + create' buttons. The 'Review + create' button is highlighted in blue. A 'Give feedback' link is also present.



Create a storage account

Basics Advanced Networking Data protection Encryption Tags **Review + create**

[View automation template](#)

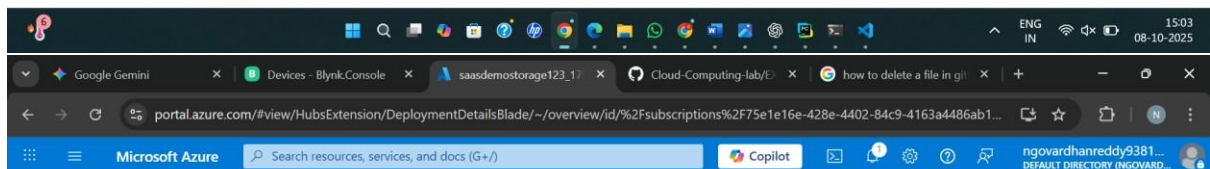
Basics

Subscription	Azure for Students
Resource group	saas-storage-RG
Location	East Asia
Storage account name	saasdemostorage123
Preferred storage type	
Performance	Standard
Replication	Locally-redundant storage (LRS)

Advanced

[Previous](#) [Next](#) [Create](#)

[Give feedback](#)



All services >

saasdemostorage123_1759916008631 | Overview

Deployment

[Search](#) [Delete](#) [Cancel](#) [Redeploy](#) [Download](#) [Refresh](#)

Overview

[Inputs](#)
[Outputs](#)
[Template](#)

Your deployment is complete

Deployment name: saasdemostorage123_1759... Start time: 10/8/2025, 3:03:48 PM
Subscription: Azure for Students Correlation ID: 16065d5b-88f9-4cd8-a810-261af54b
Resource group: saas-storage-RG

Deployment details

Next steps

[Go to resource](#)

Give feedback

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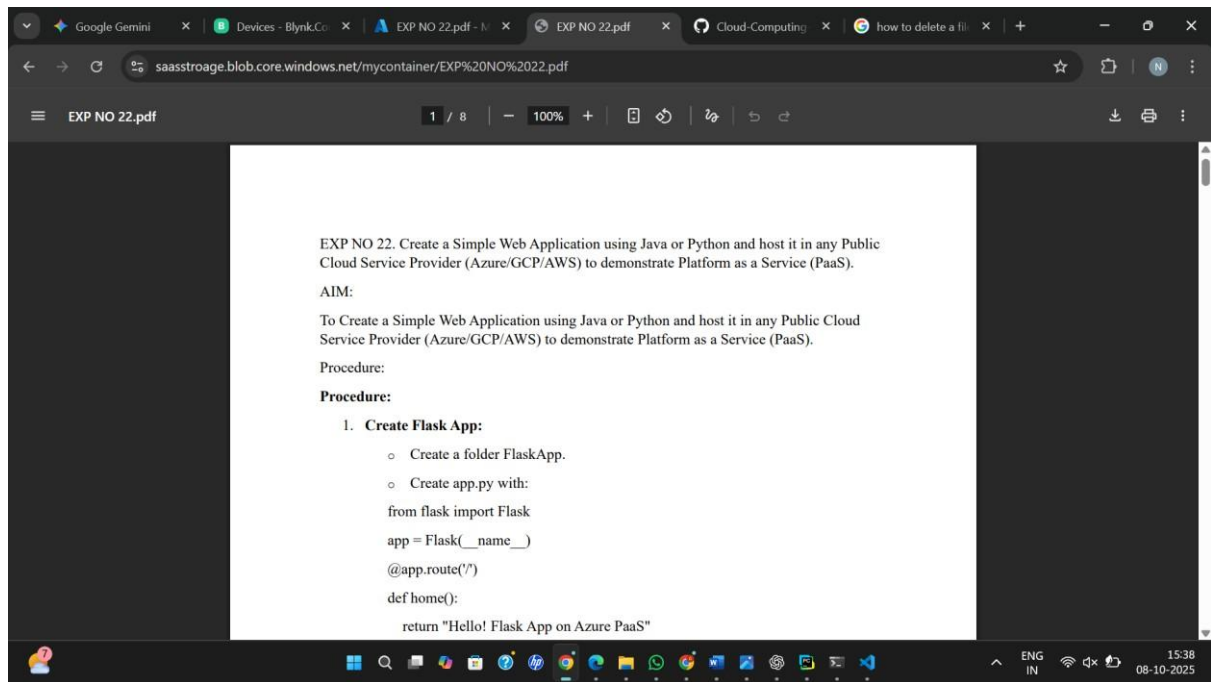
Add or remove favorites by pressing Ctrl+Shift+F



Microsoft Azure portal interface showing the 'Upload blob' dialog for a new container named 'mycontainer'. The dialog includes fields for Name, Anonymous access level (set to Private), and an 'Upload' button. The background shows the Azure Storage account 'saasdemostorage123' with various navigation options like Storage browser, Storage Mover, and Partner solutions.

Microsoft Azure portal interface showing the 'EXP NO 21.pdf' blob details. The 'Overview' tab is selected, displaying properties such as URL, LAST MODIFIED, CREATION TIME, VERSION ID, TYPE (Block blob), SIZE (1.52 MiB), ACCESS TIER (Hot), and ETAG. A 'Copied' tooltip is visible over the URL field.

Property	Value
URL	https://saasdemostorage123.blob.core.windows.net/mycontainer/EXP NO 21.pdf
LAST MODIFIED	10/8/2025, 3:09:05 PM
CREATION TIME	10/8/2025, 3:09:05 PM
VERSION ID	-
TYPE	Block blob
SIZE	1.52 MiB
ACCESS TIER	Hot (Inferred)
ACCESS TIER LAST MODIFIED	N/A
ARCHIVE STATUS	-
REHYDRATE PRIORITY	-
SERVER ENCRYPTED	true
ETAG	0x8DE064E858A2CED
VERSION-LEVEL IMMUTABILITY POLICY	Disabled
CACHE-CONTROL	



Result:

The file was successfully uploaded to Azure Storage and made publicly accessible, demonstrating Storage as a Service (SaaS).