

EXP NO 13. Demonstrate Infrastructure as a Service (IaaS) by creating a resources group using a Public Cloud Service Provider (Azure), configure with minimum CPU, RAM, and Storage.

Aim:

To demonstrate Infrastructure as a Service (IaaS) by creating a Resource Group using a public cloud service provider (Microsoft Azure) and configuring it for minimal resource usage.

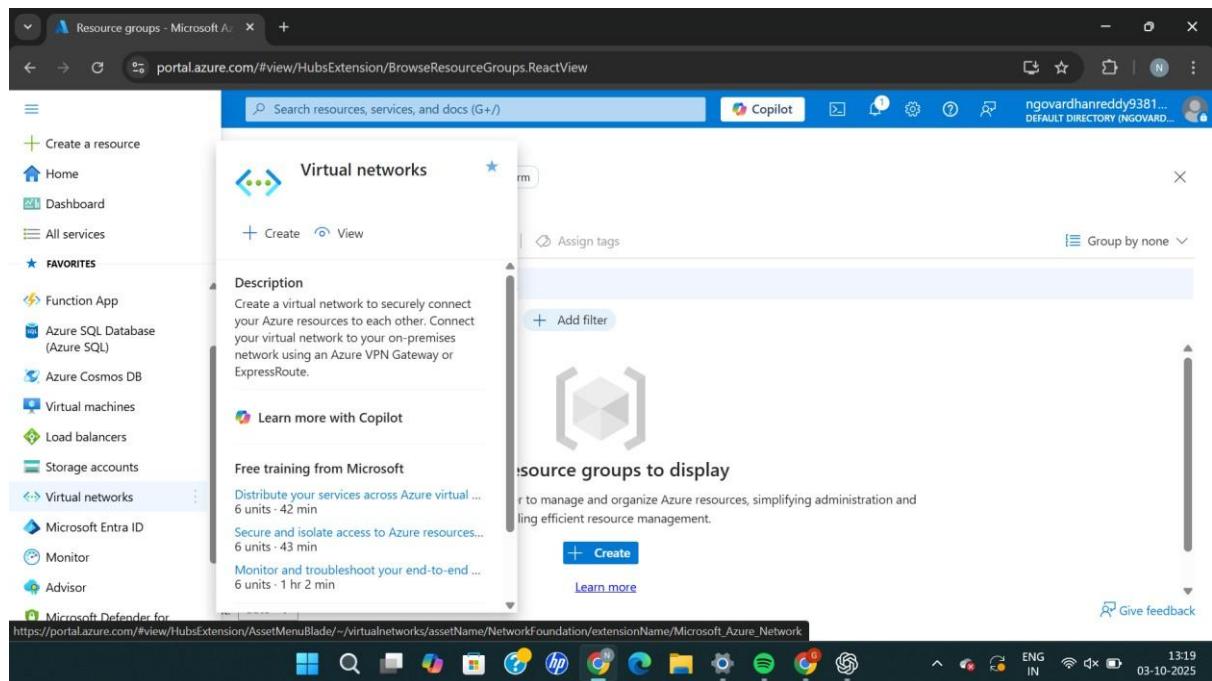
STEP1: CREATE AN ACCOUNT IN MICROSOFT AZURE.

STEP 2: CREATE A NEW RESOURCE GROUP

STEP 3: VERIFY THE RESOURCE GROUP

STEP 4: (OPTIONAL) ADD A RESOURCE

STEP 5: STOP / DELETE RESOURCE GROUP (OPTIONAL) DESIGN:



The screenshot shows the Microsoft Azure portal interface. The title bar reads "Resource groups - Microsoft Azure". The address bar shows the URL "portal.azure.com/#browse/resourcegroups". The top navigation bar includes "Microsoft Azure", "Search resources, services, and docs (G+)", "Copilot", and user information "ngovardhanreddy9381... DEFAULT DIRECTORY (NGOARD...)". Below the navigation is a toolbar with "Create", "Manage view", "Refresh", "Export to CSV", "Open query", and "Assign tags". A message bar at the top says "You are viewing a new version of Browse experience. Click here to access the old experience." There are filter options for "Subscription equals all" and "Location equals all". A large central message states "No resource groups to display" with a "Create new resource group" button. The status bar at the bottom shows "Showing 1 - 0 of 0. Display count: auto" and the URL "https://portal.azure.com/#blade/HubsExtension/ResourceGroupCreate.ReactView". The taskbar at the bottom includes icons for File Explorer, Task View, Start, and various pinned applications like Edge, Google Chrome, and Spotify.

The screenshot shows the Microsoft Azure portal interface for creating a new resource group. The title bar reads "Create a resource group - Microsoft Azure". The address bar shows the URL "portal.azure.com/#view/HubsExtension/ResourceGroupCreate.ReactView/_provisioningContext~/%7B"telemetryId"%3A"89fbcd78-25af-44eb-94b...". The top navigation bar includes "Microsoft Azure", "Search resources, services, and docs (G+)", "Copilot", and user information "ngovardhanreddy9381... DEFAULT DIRECTORY (NGOARD...)". Below the navigation is a breadcrumb trail "Home > Resource groups > Create a resource group". The main content area has tabs for "Basics", "Tags", and "Review + create". Under the "Basics" tab, there is a description of what a resource group is: "A container that holds related resources for an Azure solution. The resource group can include all the resources for the solution, or only those resources that you want to manage as a group. You decide how you want to allocate resources to resource groups based on what makes the most sense for your organization." Below the description are fields for "Subscription" (set to "Azure for Students"), "Resource group name" (set to "IaaS-RG"), and "Region" (set to "(Asia Pacific) Central India"). At the bottom of the page are buttons for "Previous", "Next", and "Review + create". The status bar at the bottom shows the URL "https://portal.azure.com/#view/HubsExtension/ResourceGroupCreate.ReactView/_provisioningContext~/%7B"telemetryId"%3A"89fbcd78-25af-44eb-94b...", the date "03-10-2025", and the time "13:17". The taskbar at the bottom includes icons for File Explorer, Task View, Start, and various pinned applications like Edge, Google Chrome, and Spotify.

The screenshot shows the Microsoft Azure portal interface for creating a new resource group. The top navigation bar includes 'Microsoft Azure', a search bar, and various icons for Copilot, notifications, and settings. The main page title is 'Create a resource group'. Below the title, there are three tabs: 'Basics', 'Tags', and 'Review + create', with 'Review + create' currently selected. Under the 'Basics' section, the subscription is set to 'Azure for Students', the resource group name is 'IaaS-RG', and the region is 'Central India'. The 'Tags' section shows 'None'. At the bottom of the page, there are 'Previous', 'Next', and 'Create' buttons, with 'Create' being the active button. The status bar at the bottom right shows the date as 03-10-2025.

The screenshot shows the Microsoft Azure portal interface displaying a list of existing resource groups. The top navigation bar includes 'Microsoft Azure', a search bar, and various icons for Copilot, notifications, and settings. The main page title is 'Resource groups'. Below the title, there is a toolbar with buttons for '+ Create', 'Manage view', 'Refresh', 'Export to CSV', 'Open query', and 'Assign tags'. A message indicates 'You are viewing a new version of Browse experience. Click here to access the old experience.' There is a filter bar with 'Subscription equals all' and 'Location equals all'. The table below lists one resource group: 'IaaS-Demo-RG' (Name), 'Azure for Students' (Subscription), and 'East Asia' (Location). The status bar at the bottom right shows the date as 08-10-2025.

Result:

A Resource Group was successfully created in Microsoft Azure, demonstrating the initial step of Infrastructure as a Service (IaaS) setup.