

EXP NO :-11

The screenshot displays the Microsoft Azure portal interface. The browser address bar shows the URL: `portal.azure.com/#@vr1944618gmail.onmicrosoft.com/resource/subscriptions/53ddacf0-7fed-49c2-92f5-c99839f206cd/resourceGroups/vinay_group/pr...`. The user is logged in as `vr1944618@gmail.com`. The main content area shows the details of a virtual machine named **vinay**, which is a **Virtual machine**. The left sidebar contains navigation options: Overview, Activity log, Access control (IAM), Tags, Diagnose and solve problems, Settings, Networking, Connect, Disks, Size, Microsoft Defender for Cloud, and Advisor recommendations. The main panel is titled **vinay** and includes a search bar and action buttons: Connect, Start, Restart, Stop, Capture, Delete, Refresh, Open in mobile, Feedback, and CLI / PS. The **Essentials** section lists key properties:

Property	Value
Resource group	(move) vinay_group
Status	Stopped (deallocated)
Location	South India
Subscription	(move) Azure for Students
Subscription ID	53ddacf0-7fed-49c2-92f5-c99839f206cd
Operating system	Linux
Size	Standard D2s v3 (2 vcpus, 8 GiB memory)
Public IP address	20.235.28.39
Virtual network/subnet	vinay-vnet/default
DNS name	Not configured
Health state	-

At the bottom, there are links for [Tags \(edit\)](#) and [Add tags](#). The bottom status bar shows the system clock as 8:17 AM on 09-Sep-23, with a temperature of 28°C and weather 'Mostly sunny'.

Virtual Machine in Azure

date: 21-03-2022

Exp No: 11

Aims to create a virtual machine in azure cloud service provider

Procedure

- 1) Open azure service provider
- 2) Login to the azure (Free for students)
- 3) provide your organization details with college email address
- 4) All cloud services will be displayed
- 5) then click on "create a resource" for resource creation
- 6) In that resource we have to create a virtual machine
- 7) "click on to create a virtual machine"
- 8) provide Administrator username and password
- 9) Then click on "review & create"
- 10) it will navigate to another page
- 11) Then click on "create"
- 12) it will display the virtual machine creation
- 13) thus the deployment starts and your virtual machine will be created

Exp. No. - 11

Output

Resource Group	: vinay
Status	: running
Location	: South India
Subscription	: Azure for students
Operating System	: Linux (Ubuntu 20.04)
VM availability status	: Available
Subscription ID	: 63ddacfo-4red-4908-748f-c71111
Size	: Standard D3s V3 (3 vCPUs, 32GB memory)
Public IP address	: 90.235.28.29
Virtual Network/subnet	: vinay-vnet/default

Result

Thus the creation of Virtual machine in Azure cloud service provider was completed successfully.

EXP NO 12

vinay - Microsoft Azure

portal.azure.com/#@vr1944618gmail.onmicrosoft.com/resource/subscriptions/53ddacf0-7fed-49c2-92f5-c99839f206cd/resourceGroups/vinay_group/pr...

Gmail YouTube Maps

Microsoft Azure

Search resources, services, and docs (G+)

vr1944618@gmail.com
DEFAULT DIRECTORY (VR1944618...

Home >

vinay

Virtual machine

Search

Connect Start Restart Stop Capture Delete Refresh Open in mobile Feedback CLI / PS

Overview

Activity log

Access control (IAM)

Tags

Diagnose and solve problems

Settings

Networking

Connect

Disks

Size

Microsoft Defender for Cloud

Advisor recommendations

Essentials

Resource group (move)
vinay_group

Status
Stopped (deallocated)

Location
South India

Subscription (move)
Azure for Students

Subscription ID
53ddacf0-7fed-49c2-92f5-c99839f206cd

Tags (edit)
Add tags

Operating system
Linux

Size
Standard D2s v3 (2 vcpus, 8 GiB memory)

Public IP address
20.235.28.39

Virtual network/subnet
vinay-vnet/default

DNS name
Not configured

Health state
-

JSON View

Type here to search

28°C Mostly sunny

8:17 AM
09-Sep-23

Task by creating a VM

EXP No: 12

Date: 31-03-2023

Aim : To demonstrate infrastructure as a service by creating a virtual machine using public cloud service provider

procedure

- 1) Create an account in Microsoft Azure portal public cloud service
- 2) create new Resource and deploy it
- 3) create a new Virtual Network and deploy it
- 4) create a new Virtual Machine
- 5) under basics select the resource group and select preferred region
- 6) select the image windows 2016 server
- 7) select the size 1 vcpu and 3.5 GB Ram
- 8) give proper Administration user name and password
- 9) configure the disk network
- 10) Review and create VM, identify the IP numbers associated with the VM
- 11) Launch the VM and test its functionality

Output

Resource group : vinay
Status : Running
Location : South India
Subscription : Azure for students
Subscription ID : 53ddac60-7fed-49c0-9285-c999440
Operating system : Linux (Ubuntu 20.04)
VM availability status : Available
Size : Standard D3s v3
Public IP address : 90.835.08.39
Virtual network/subnet : vinay-vnet/default

Result

Thus the demonstration of IaaS by creating a virtual machine using a public cloud service provider was completed successfully.

EXP NO 13

vinay - Microsoft Azure

portal.azure.com/#@vr1944618gmail.onmicrosoft.com/resource/subscriptions/53ddacf0-7fed-49c2-92f5-c99839f206cd/resourceGroups/vinay_group/pr...

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Microsoft Azure

Search resources, services, and docs (G+)

vr1944618@gmail.com
DEFAULT DIRECTORY (VR1944618...

Home >

vinay
Virtual machine

Search

Connect Start Restart Stop Capture Delete Refresh Open in mobile Feedback CLI / PS

Overview

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Access control (IAM)

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Size

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Essentials

Resource group (move)
vinay_group

Status
Stopped (deallocated)

Location
South India

Subscription (move)
Azure for Students

Subscription ID
53ddacf0-7fed-49c2-92f5-c99839f206cd

Tags (edit)
Add tags

Operating system
Linux

Size
Standard D2s v3 (2 vcpus, 8 GiB memory)

Public IP address
20.235.28.39

Virtual network/subnet
vinay-vnet/default

DNS name
Not configured

Health state
-

JSON View

Type here to search

28°C Mostly sunny 8:17 AM 09-Sep-23

Exp No: 13

Storage service by using Azure

Date: 31-08-2022

Aim: to create a storage service using microsoft azure and demonstrate it by using a static web page service.

Procedure

- 1) Create a storage Account in microsoft Azure portal
- 2) Give a valid username and select region
- 3) configure the storage service
- 4) select the static web page and give index.html and 404.html
- 5) go to storage explorer and select the blob and upload the html files
- 6) Check the primary URL and to verify whether the static web page is accessible through internet as a public service

Output

Resource group	: Network watcher RG
Status	: Running
Location	: South India
Subscription	: Azure for students
Subscription ID	: 53ddacfe-7fed-4969-9385-c772e159a
Default domain	: vinayreddy.azurewebsites.net
App service plan	: ASP - Network watcher RG - eastp
Operating system	: Windows
Health check	: Not configured

Result

Thus the creation of storage service using Microsoft Azure and demonstrating with static web app was completed successfully.

EXP NO 14

vinay9561 (vinay2004/vinay9561)

SQL database

Search

CopyRestoreExportSet server firewallDeleteConnect with...Feedback

Overview

Activity log

Tags

Diagnose and solve problems

Query editor (preview)

Settings

Compute + storage

Connection strings

Properties

Locks

Data management

Replicas

Essentials

Resource group (move) : [vinay_group](#)

Status : Paused

Location : Central India

Subscription (move) : [Azure for Students](#)

Subscription ID : 53ddacf0-7fed-49c2-92f5-c99839f206cd

Tags (edit) : [Add tags](#)

Server name : [vinay2004.database.windows.net](#)

Connection strings : [Show database connection strings](#)

Pricing tier : General Purpose - Serverless: Gen5, 1 vCore

Auto-pause delay : 1 hour

Earliest restore point : 2023-09-02 02:48 UTC

Getting startedMonitoringPropertiesFeaturesNotifications (1)IntegrationsTutorials

Database data storage

Review the below metrics and monitor your applications and infrastructure.

Type here to search

Microsoft Store

28°C Mostly sunny

8:17 AM 09-Sep-23

Exp No: 10

SQL Storage and perform basic
Query in Azure

Date: 09/09/23

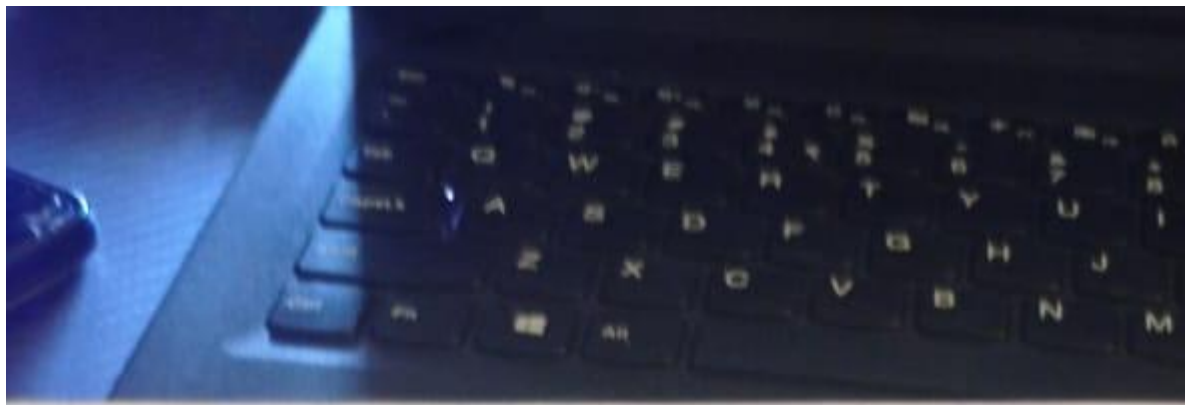
Aim: To Develop a Database and store it in SQL storage
services provided by Microsoft Azure and perform
a simple query operation on the Database.

Procedure

- 1) Launch SQL Database from Microsoft Azure portal
- 2) Give a proper Database Name
- 3) Select the server give a valid server name
- 4) Give Admin name and password
- 5) Configure the Database
- 6) Select either available DB or create a new database
- 7) Review and launch
- 8) Deploy it.
- 9) Perform simple query on the Database

Previous steps

- * Open Azure service provider
- * Login to the Azure (Free for students)



exp' Output

Resource group	: vinay
Status	: Available
Location	: central india
sub-scription	: Azure For Students
Subscription id	: 53dda cfo -7fed-49ce-92f5-099839c20
Server admin	: vinay
Networking	: show networking settings
Active Directory admin	: VM 1944618@gmail.com #EXT#@017
Server name	: vinay2004.databasewindows.net

Result

Thus the creation of SQL database was completed successfully using microsoft azure cloud server provider

EXP NO 15

vinayreddy - Microsoft Azure

portal.azure.com/#@vr1944618gmail.onmicrosoft.com/resource/subscriptions/53ddacf0-7fed-49c2-92f5-c99839f206cd/resourceGroups/NetworkWatch...

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Microsoft Azure

Search resources, services, and docs (G+)

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vinayreddy
Web App

Search

Overview

Activity log

Access control (IAM)

Tags

Diagnose and solve problems

Microsoft Defender for Cloud

Events (preview)

Deployment

Deployment slots

Deployment Center

Settings

Configuration

Browse

Start

Swap

Restart

Delete

Refresh

Download publish profile

Reset publish profile

Share to mobile

...

Click here to access Application Insights for monitoring and profiling for your app.

Essentials

JSON View

Resource group (move) : [NetworkWatcherRG](#)

Status : Admin disabled

Location (move) : South India

Subscription (move) : [Azure for Students](#)

Subscription ID : 53ddacf0-7fed-49c2-92f5-c99839f206cd

Default domain : [vinayreddy.azurewebsites.net](#)

App Service Plan : [ASP-NetworkWatcherRG-aadf](#)

Operating System : Windows

Health Check : Not Configured

Tags (edit) : [Add tags](#)

Properties

Monitoring

Logs

Capabilities

Notifications

Recommendations

Web app

Name

vinayreddy

Windows Taskbar

Type here to search

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8:18 AM 09-Sep-23

web application using Java or Python in Azure

Exp No: 15

Date: 21-08-2022

Aim: To create a web application using microsoft Azure and deploy and publish it on the internet and access it via the URL of the application

procedure

- 1) Launch the App service in microsoft Azure portal
- 2) Give a valid web App Name
- 3) Select Code and select either Java or Net or
Runtime Stack
- 4) select the preferred web server stack i.e either
tomcat or JBoss
- 5) select the preferred OS
- 6) select the Region for Deploying the App
- 7) Review and create
- 8) Deploy in an the given URL
- 9) use the URL of the web app And check to see if
is working

1) Review
2) Validated

Output

Resource group	Network-watcher-pa
Status	Running
Location	South India
Subscription	Azure for student
Subscription ID	53ddaefa-43ed-496e-9288-c797912a
Default domain	Shay naddy, azurewatcher.net
App service plan	ASP-network-watcher-Ra-aadp
Operating system	Windows
Health Check	not configured

Result

Thus the creation of web application using Java was completed successfully using azure cloud service provider.