

29th January

Studying Subnets

The screenshot displays the Microsoft Azure portal interface. The top navigation bar includes the 'Resource groups' title and a search bar. Below the navigation bar, the 'Resource groups' page is shown, featuring a table of resource groups. The table has columns for 'Name', 'Subscription', and 'Location'. The table is currently empty, with a message 'Showing 0 to 0 of 0 records.' Below the table, there is a terminal window titled 'Bash' showing the command 'az group create -n 29jan -l eastus' and its output, which is a JSON object representing the created resource group.

Resource groups

Incendo Technology Solutions Ltd. (incendo.onmicrosoft.com)

+ Create Manage view Refresh Export to CSV Open query Assign tags

Filter for any field... Subscription equals all Location equals all Add filter

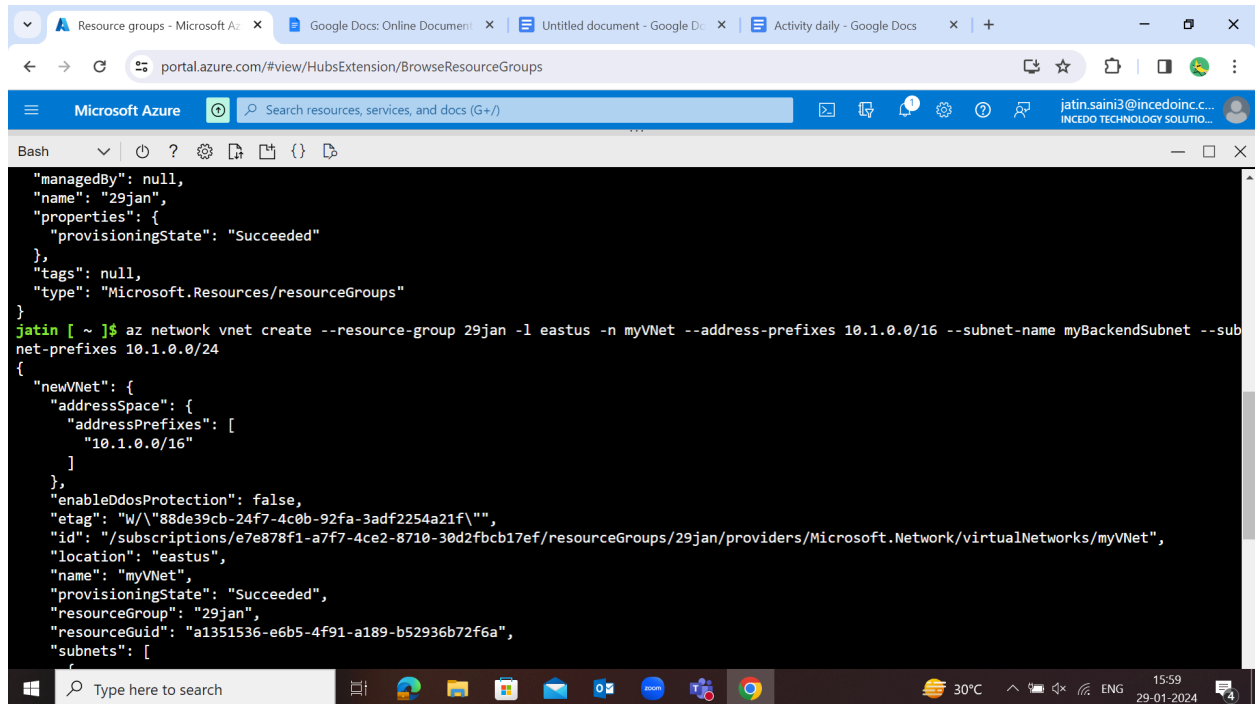
Showing 0 to 0 of 0 records.

No grouping List view

Name Subscription Location

```
jatin [ ~ ]$ az group create -n 29jan -l eastus
{
  "id": "/subscriptions/e7e878f1-a7f7-4ce2-8710-30d2fbc17ef/resourceGroups/29jan",
  "location": "eastus",
  "managedBy": null,
  "name": "29jan",
  "properties": {
    "provisioningState": "Succeeded"
  },
  "tags": null,
  "type": "Microsoft.Resources/resourceGroups"
}
jatin [ ~ ]$
```

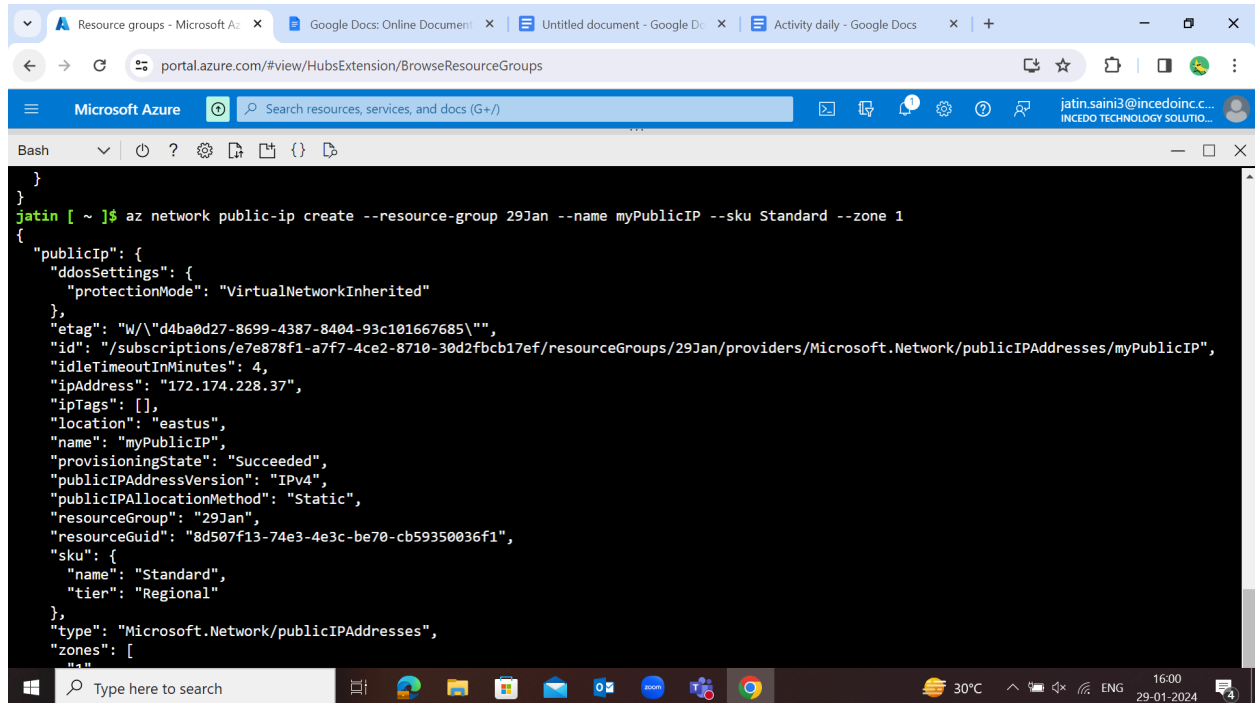
```
az network vnet create \  
  --resource-group CreatePubLBQS-rg \  
  --location eastus \  
  --name myVNet \  
  --address-prefixes 10.1.0.0/16 \  
  --subnet-name myBackendSubnet \  
  --subnet-prefixes 10.1.0.0/24
```



The screenshot shows a Windows desktop environment with a terminal window open. The terminal is running the Azure CLI command to create a VNet. The command is: `az network vnet create --resource-group 29jan -l eastus -n myVNet --address-prefixes 10.1.0.0/16 --subnet-name myBackendSubnet --subnet-prefixes 10.1.0.0/24`. The output is a JSON object showing the details of the newly created VNet, including its name, location, resource group, and the list of subnets.

```
"managedBy": null,  
"name": "29jan",  
"properties": {  
  "provisioningState": "Succeeded"  
},  
"tags": null,  
"type": "Microsoft.Resources/resourceGroups"  
}  
jatin [ ~ ]$ az network vnet create --resource-group 29jan -l eastus -n myVNet --address-prefixes 10.1.0.0/16 --subnet-name myBackendSubnet --subnet-prefixes 10.1.0.0/24  
{  
  "newVNet": {  
    "addressSpace": {  
      "addressPrefixes": [  
        "10.1.0.0/16"  
      ]  
    },  
    "enableDdosProtection": false,  
    "etag": "W/\"88de39cb-24f7-4c0b-92fa-3adf2254a21f\"",  
    "id": "/subscriptions/e7e878f1-a7f7-4ce2-8710-30d2fbc17ef/resourceGroups/29jan/providers/Microsoft.Network/virtualNetworks/myVNet",  
    "location": "eastus",  
    "name": "myVNet",  
    "provisioningState": "Succeeded",  
    "resourceGroup": "29jan",  
    "resourceGuid": "a1351536-e6b5-4f91-a189-b52936b72f6a",  
    "subnets": [  
      {  
        "name": "myBackendSubnet",  
        "addressPrefix": "10.1.0.0/24",  
        "provisioningState": "Succeeded"  
      }  
    ]  
  }  
}
```

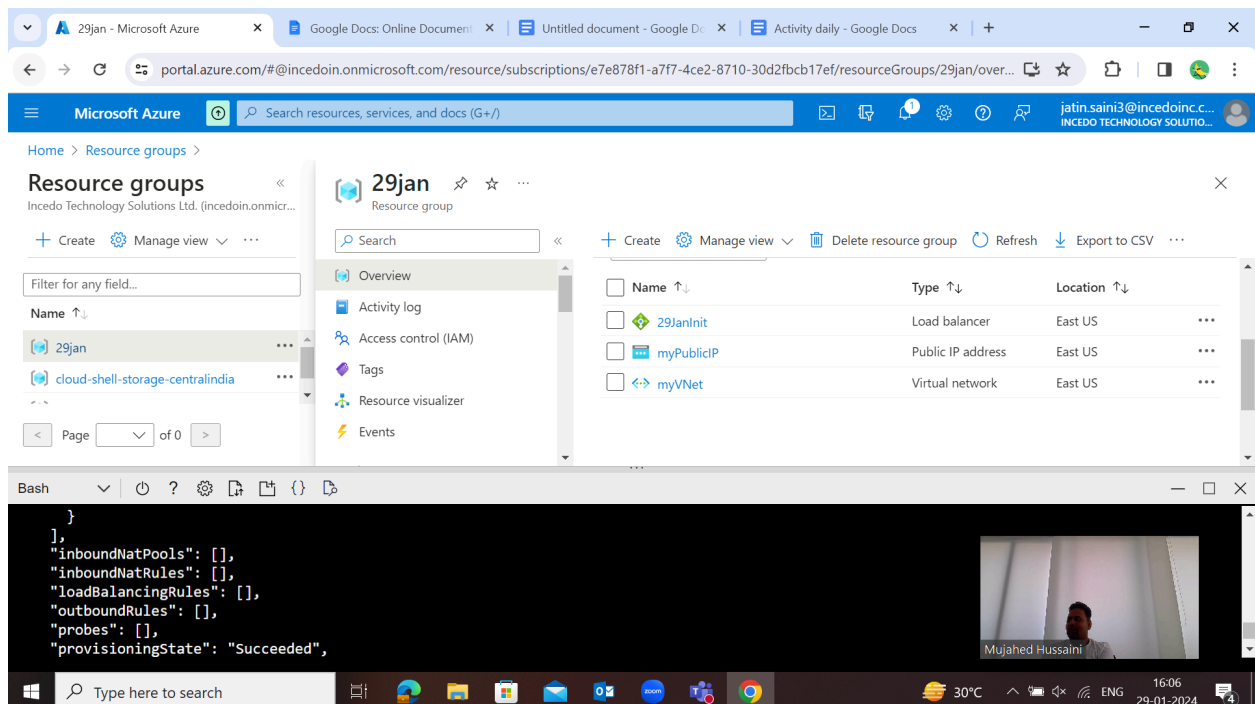
az network public-ip create --resource-group CreatePubLBQS-rg --name myPublicIP --sku Standard --zone 1



```

}
}
jatin [ ~ ]$ az network public-ip create --resource-group 29Jan --name myPublicIP --sku Standard --zone 1
{
  "publicIp": {
    "ddosSettings": {
      "protectionMode": "VirtualNetworkInherited"
    },
    "etag": "W/\"d4ba0d27-8699-4387-8404-93c101667685\"",
    "id": "/subscriptions/e7e878f1-a7f7-4ce2-8710-30d2fbc17ef/resourceGroups/29Jan/providers/Microsoft.Network/publicIPAddresses/myPublicIP",
    "idleTimeoutInMinutes": 4,
    "ipAddress": "172.174.228.37",
    "ipTags": [],
    "location": "eastus",
    "name": "myPublicIP",
    "provisioningState": "Succeeded",
    "publicIPAddressVersion": "IPv4",
    "publicIPAllocationMethod": "Static",
    "resourceGroup": "29Jan",
    "resourceGuid": "8d507f13-74e3-4e3c-be70-cb59350036f1",
    "sku": {
      "name": "Standard",
      "tier": "Regional"
    },
    "type": "Microsoft.Network/publicIPAddresses",
    "zones": [
      "1"
    ]
  }
}

```



Home > Resource groups >

Resource groups

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+ Create Manage view ...

Filter for any field...

Name ↑

- 29jan
- cloud-shell-storage-centralindia

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29jan

Resource group

Search

+ Create Manage view Delete resource group Refresh Export to CSV ...

Name ↑	Type ↑	Location ↑
29Janinit	Load balancer	East US
myPublicIP	Public IP address	East US
myVNet	Virtual network	East US

Overview Activity log Access control (IAM) Tags Resource visualizer Events

```

}
},
"inboundNatPools": [],
"inboundNatRules": [],
"loadBalancingRules": [],
"outboundRules": [],
"probes": [],
"provisioningState": "Succeeded",

```

Health Probe

29jan - Microsoft Azure | Google Docs: Online Document | Untitled document - Google Docs | Activity daily - Google Docs

portal.azure.com/#@incedoin.onmicrosoft.com/resource/subscriptions/e7e878f1-a7f7-4ce2-8710-30d2fbc17ef/resourceGroups/29jan/over...

Microsoft Azure | Search resources, services, and docs (G+)

Home > Resource groups >

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29jan | Resource group

+ Create | Manage view | Delete resource group | Refresh | Export to CSV | ...

Filter for any field...

Overview

Bash

```
Connecting terminal...
jatin [ ~ ]$ az network lb probe create --resource-group 29jan --lb-name 29JanInit --name myHealthProbe --protocol tcp --port 80
{
  "etag": "W/\"62519701-e880-47f6-ba24-05ca2a89f4e1\"",
  "id": "/subscriptions/e7e878f1-a7f7-4ce2-8710-30d2fbc17ef/resourceGroups/29jan/providers/Microsoft.Network/loadBalancers/29JanInit/probes/myHealthProbe",
  "intervalInSeconds": 15,
  "name": "myHealthProbe",
  "numberOfProbes": 2,
  "port": 80,
  "probeThreshold": 1,
  "protocol": "Tcp",
  "provisioningState": "Succeeded",
  "resourceGroup": "29jan",
  "type": "Microsoft.Network/loadBalancers/probes"
}
jatin [ ~ ]$
```

Type here to search

30°C | 16:16 | 29-01-2024

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portal.azure.com/#@incedoin.onmicrosoft.com/resource/subscriptions/e7e878f1-a7f7-4ce2-8710-30d2fbc17ef/resourceGroups/29jan/over...

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Filter for any field...

Name ↑

29jan

cloud-shell-storage-centralindia

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Overview

Activity log

Access control (IAM)

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Resource visualizer

Events

29jan | Resource group

+ Create | Manage view | Delete resource group | Refresh | Export to CSV | ...

Name ↑	Type ↑	Location ↑
29JanInit	Load balancer	East US
myNSG	Network security group	East US
myPublicIP	Public IP address	East US
myVNet	Virtual network	East US

Bash

```
"provisioningState": "Succeeded",
"resourceGroup": "29jan",
"sourceAddressPrefix": "*",
"sourceAddressPrefixes": [],
"sourcePortRange": "*",
"sourcePortRanges": [],
"type": "Microsoft.Network/networkSecurityGroups/securityRules"
}
jatin [ ~ ]$
```

Type here to search

32°C | 16:49 | 29-01-2024

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portal.azure.com/#@incedoin.onmicrosoft.com/resource/subscriptions/e7e878f1-a7f7-4ce2-8710-30d2fbc17ef/resourceGroups/29jan/over...

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Resource groups

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+ Create | Manage view | ...

Filter for any field...

Name ↑

- 29jan
- cloud-shell-storage-centralindia

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29jan Resource group

Search

+ Create | Manage view | Delete resource group | Refresh | Export to CSV | ...

Overview | Activity log | Access control (IAM) | Tags | Resource visualizer | Events

<input type="checkbox"/>	29JanInit	Load balancer	East US
<input type="checkbox"/>	myBastionIP	Public IP address	East US
<input type="checkbox"/>	myNSG	Network security group	East US
<input type="checkbox"/>	myPublicIP	Public IP address	East US
<input type="checkbox"/>	myVNet	Virtual network	East US

Bash

```
--vnet-name myVNet \
--location eastus

The command requires the extension bastion. Do you want to install it now? The command will continue to run after the extension is installed. (Y/n): Y
Run 'az config set extension.use_dynamic_install=yes_without_prompt' to allow installing extensions without prompt.
Default enabled including preview versions for extension installation now. Disabled in May 2024. Use '--allow-preview true' to enable it specifically if needed. Use '--allow-preview false' to install stable version only.
This command is in preview and under development. Reference and support levels: https://aka.ms/CLI_refstatus
Running ..
```

Type here to search

32°C | 16:59 | 29-01-2024

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portal.azure.com/#@incedoin.onmicrosoft.com/resource/subscriptions/e7e878f1-a7f7-4ce2-8710-30d2fbc17ef/resourceGroups/29jan/over...

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Resource groups

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+ Create | Manage view | ...

Filter for any field...

Name ↑

- 29jan
- cloud-shell-storage-centralindia

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29jan Resource group

Search

+ Create | Manage view | Delete resource group | Refresh | Export to CSV | ...

Overview | Activity log | Access control (IAM) | Tags | Resource visualizer | Events

	Name ↑	Type ↑	Location ↑
<input type="checkbox"/>	29JanInit	Load balancer	East US
<input type="checkbox"/>	myBastionHost	Bastion	East US
<input type="checkbox"/>	myBastionIP	Public IP address	East US
<input type="checkbox"/>	myNSG	Network security group	East US
<input type="checkbox"/>	myPublicIP	Public IP address	East US

Bash

```
"provisioningState": "Succeeded",
"resourceGroup": "29jan",
"scaleUnits": 2,
"sku": {
  "name": "Standard"
},
"type": "Microsoft.Network/bastionHosts"
}
jatin [ ~ ]$
```

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portal.azure.com/#@incedoin.onmicrosoft.com/resource/subscriptions/e7e878f1-a7f7-4ce2-8710-30d2fbc17ef/resourceGroups/29jan...

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Resource groups

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+ Create | Manage view | ...

Filter for any field...

Name ↑

- 29jan
- cloud-shell-storage-centralindia
- NetworkWatcherRG

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29jan

Resource group

+ Create | Manage view | Delete resource group | Refresh | Export to CSV | Open query | Assign tags | Move | ...

Search

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- Resource visualizer
- Events
- Settings
- Deployments
- Security

Type	Location
myBastionHost	Bastion
myBastionIP	Public IP address
myNicVM1	Network Interface
myNicVM2	Network Interface
myNSG	Network security group
myPublicIP	Public IP address
myVM1	Virtual machine
myVM1_disk1_4abbe3d2247047fe9d23005a78531975	Disk

Bash

```
Confirm Admin Password:
jatin [ ~ ]$ az vm create \
--resource-group 29jan \
--name myVM2 \
--nics myNicVM2 \
--image win2019datacenter \
--admin-username azureuser \
--zone 2 --no-wait

Admin Password:
Confirm Admin Password:
```

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portal.azure.com/#@incedoin.onmicrosoft.com/resource/subscriptions/e7e878f1-a7f7-4ce2-8710-30d2fbc17ef/resourceGroups/29jan...

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Resource groups

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Name ↑

- 29jan
- cloud-shell-storage-centralindia
- NetworkWatcherRG

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29jan

Resource group

+ Create | Manage view | Delete resource group | Refresh | Export to CSV | Open query | Assign tags | Move | ...

Search

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- Settings
- Deployments
- Security

Type	Location
myNicVM2	Network Interface
myNSG	Network security group
myPublicIP	Public IP address
myVM1	Virtual machine
myVM1_disk1_4abbe3d2247047fe9d23005a78531975	Disk
myVM2	Virtual machine
myVM2_OsDisk_1_acbeec92c297407582b028ef1ca13aa3	Disk
myVNet	Virtual network

Give feedback

Bash

```
Confirm Admin Password:
jatin [ ~ ]$ az vm create \
--resource-group 29jan \
--name myVM2 \
--nics myNicVM2 \
--image win2019datacenter \
--admin-username azureuser \
--zone 2 --no-wait

Admin Password:
Confirm Admin Password:
jatin [ ~ ]$
```

Type here to search

29°C | 17:14 | 29-01-2024

```

}
jatin [ ~ ]$ az network public-ip create \
  --resource-group 29jan \
  --name myNATgatewayIP \
  --sku Standard \
  --zone 1 2 3
Command group 'az network' is in preview and under development. Reference and support levels: https://aka.ms/CLI_refstatus
{
  "publicIp": {
    "ddosSettings": {

```

```

jatin [ ~ ]$ az network vnet subnet update \
  --resource-group 29jan \
  --vnet-name myVNet \
  --name myBackendSubnet \
  --nat-gateway myNATgateway
Command group 'az network' is in preview and under development. Reference and support levels: https://aka.ms/CLI_refstatus
{

```

```

jatin [ ~ ]$ array=(myVM1 myVM2)
for vm in "${array[@]}"
do
  az vm extension set \
    --publisher Microsoft.Compute \
    --version 1.8 --name CustomScriptExtension \
    --vm-name $vm --resource-group 29jan \
    --settings '{"commandToExecute":"powershell Add-windowsFeature Web-Server; powershell Add-Content -Path \"C:\\inetpub\\wwwroot\\jatin.html\" -Value $($env:computername)}'
done
Running ..

```

```

  "typeHandlerVersion": "1.8",
  "typePropertiesType": "CustomScriptExtension"
}
jatin [ ~ ]$ az network public-ip show \
  --resource-group 29jan \
  --name myPublicIP \
  --query ipAddress \
  --output tsv
Command group 'az network' is in preview and under development. Reference and support levels: https://aka.ms/CLI_refstatus
172.174.228.37
https://portal.azure.com/#@incedninc@microsoft.com/resource/subscriptio

```

Home / Resource groups /

Resource groups

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+ Create Manage view ...

Filter for any field...

Name ↑↓

- 29jan
- cloud-shell-storage-centralindia
- NetworkWatcherRG

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29jan

Overview

Activity

Access

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Resource

Events

Settings

Deploy

Security

myVM1

172.174.228.37

Not secure 172.174.228.37

```
sh
"typeHandlerVersion": "1.8",
"typePropertiesType": "CustomScriptExtension"
jatin [ ~ ]$ az network public-ip show \
--resource-group 29jan \
--name myPublicIP \
--query ipAddress \
--output tsv
Command group 'az network' is in preview and under development. Reference and support levels: https://aka.ms/CLI_refstatus
172.174.228.37
```

After deleting VM1

+ Create Manage view ...

Filter for any field...

Name ↑↓

- 29jan
- cloud-shell-storage-centralindia
- NetworkWatcherRG

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Search

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Security

myNICVM2

myNSG

myPublicIP

myVM1_disk1_4abbe3d2247047fe9d23005a7853'

172.174.228.37/jatin.htm

Not secure 172.174.228.37/jatin.htm

myVM2

Bash

```
Connecting terminal...
jatin [ ~ ]$ az network public-ip show \
--resource-group 29jan \
--name myPublicIP \
--query ipAddress \
--output tsv
Command group 'az network' is in preview and under development. Reference and support levels: https://aka.ms/CLI_refstatus
172.174.228.37
jatin [ ~ ]$
```



```
Bash  ▾ | 🔌 ? ⚙️ 📄 📄 {} 🗨️
Requesting a Cloud Shell.Succeeded.
Connecting terminal...

jatin [ ~ ]$ az group delete --name 29jan
Are you sure you want to perform this operation? (y/n): y
/ Running ..
```

P.T.O.

B. Updated the CSS of the Home page and formatting the remaining code files

```
# style.css 1 X
static > # style.css > body
1
2 body {
3     display: flex;
4     font-family: 'Segoe UI', Tahoma, Geneva, Verdana, sans-serif;
5     /* background-color: #80BCBD; */
6     margin: 0;
7     padding: 0;
8     justify-content: center;
9     align-items: center;
10    height: 100vh;
11    color: #333;
12    background-image: linear-gradient(to bottom right, #6C22A6, #83C0C1 );
13 }
14
15 #otp-button{
16     /* border-radius: 8px; */
17 }
18
19 .container {
20     backdrop-filter: blur(5px);
21     -webkit-backdrop-filter: blur(5px);
22     background: rgba(255, 255, 255, 0.2);
23     /* background-color: #F9F7C9; */
24     padding: 40px;
25     padding-top: 4px;
26     /* border-radius: 8px; */
27     box-shadow: 0 0 20px rgba(0, 0, 0, 0.1);
28     width: 300px;
29     text-align: center;
30 }
31 }
32 .form-container{
33
34     margin-bottom: 2rem;
35     padding-top: 1rem;
36 }
37
38
39 #userType {
40     width: 100%;
41     padding: 10px;
42     margin-bottom: 15px;
43     background-color: #ffffffd5;
44     border: 1px solid #ccc;
45     /* border-radius: 5px; */
46     font-size: 16px;
47     box-sizing: border-box;
48     color: #555;
49 }
50 p {
51     color: #555;
52 }
```

