DEVOPS with MULTI-CLOUD
Practice Tasks

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Course **:** DevOps with Multi-Cloud
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TASK-8 : Azure Load Balancer.

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Objective :-

To configure Azure Load Balancer to distribute incoming network traffic across multiple virtual machines, ensuring high availability, scalability, and improved application reliability.

Azure Load Balancer :-

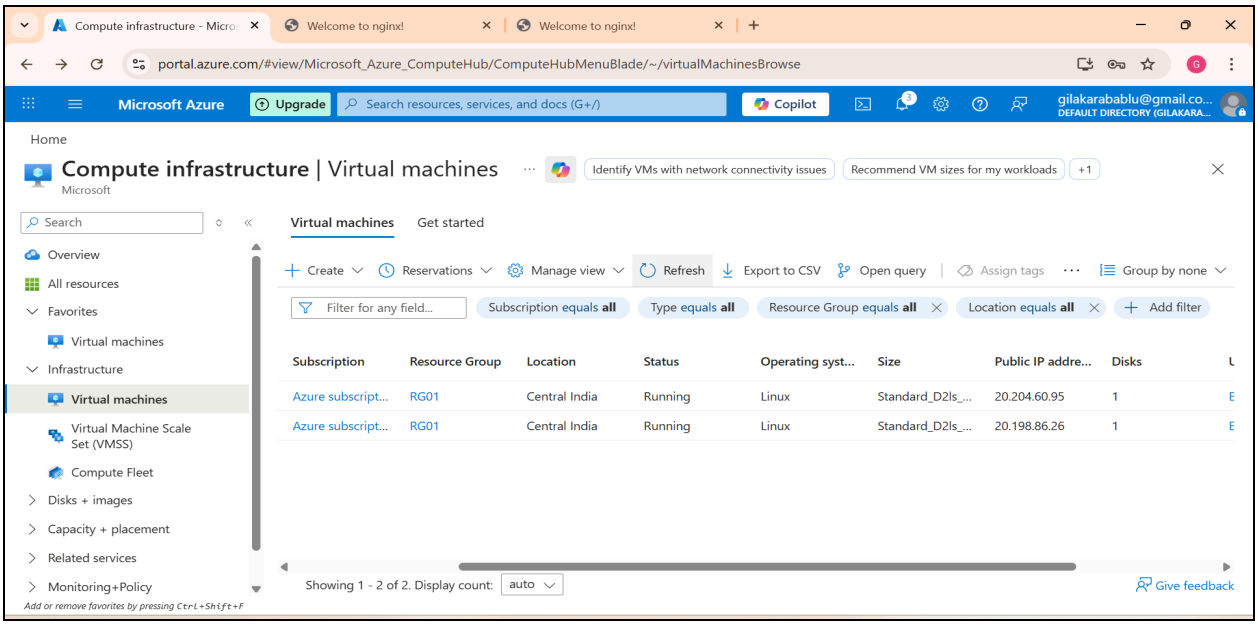
Azure Load Balancer is a Layer 4 load-balancing service that distributes inbound and outbound traffic across multiple virtual machines to improve availability and performance of applications.

→ To maintain the application servers without crashing due to huge traffic from outside we use load balancer, so that it distributes the traffic equally to the virtual machines.

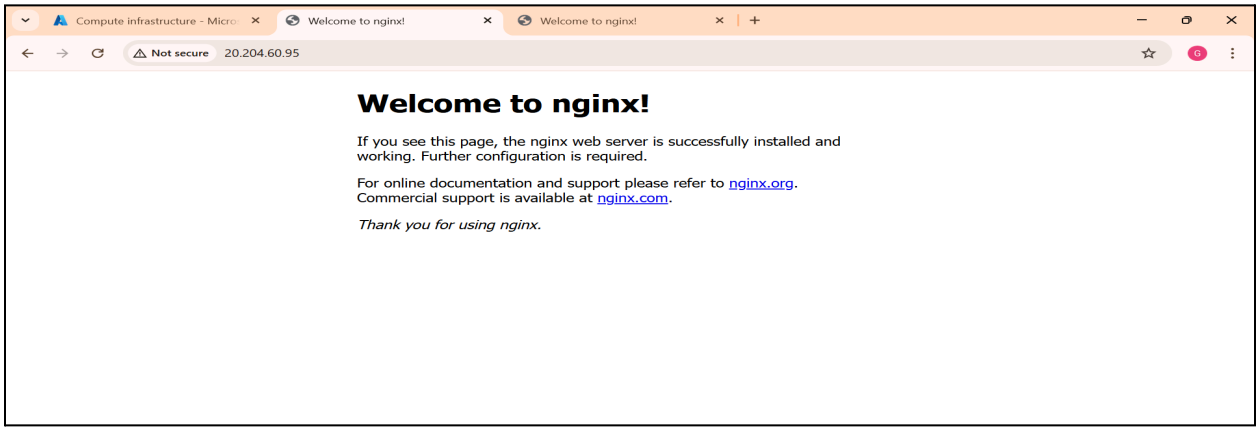
To Implement the Load Balancer :-

→ Create two virtual machines vm01 and vm02 in resource group rg01 and virtual network vn01 with subnet sn01.

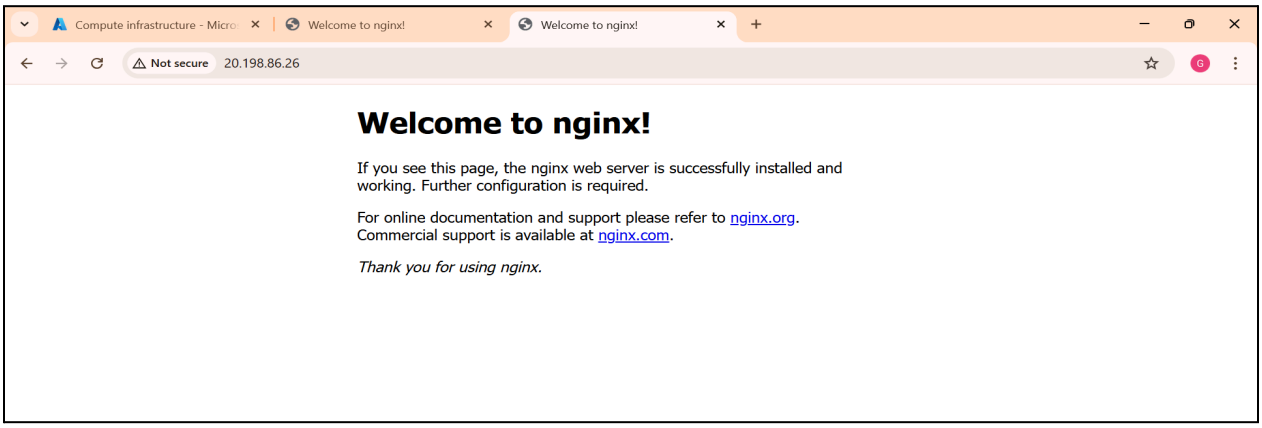
→ While creating vm's only allow the ports 22 and 80 for installation and validation of the nginx.



fig(1) successfully created two virtual machines.

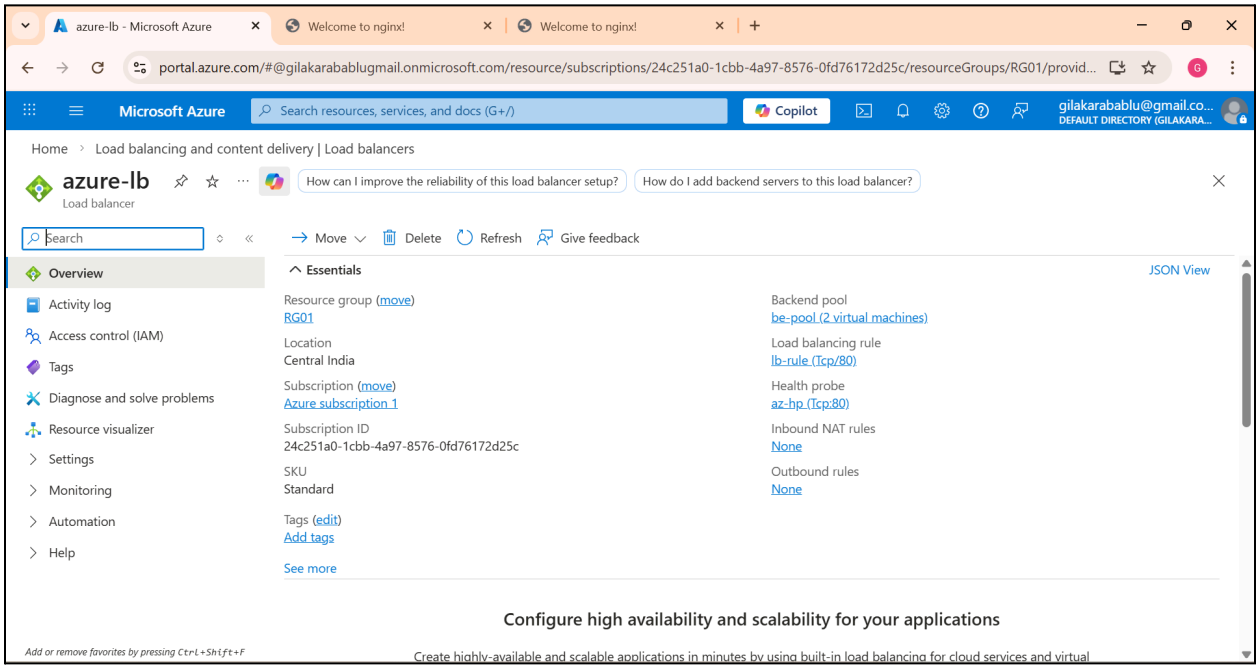


fig(2) successfully installed nginx in vm01.



fig(3) successfully installed nginx in vm02.

→ Now create the Load Balancer and configure everything about it, ft-ip > be-pool > hp-lb > lb-rules.
→ Now after configuring everything , we can browse the load balancer pub-ip and we get the nginx webserver page.

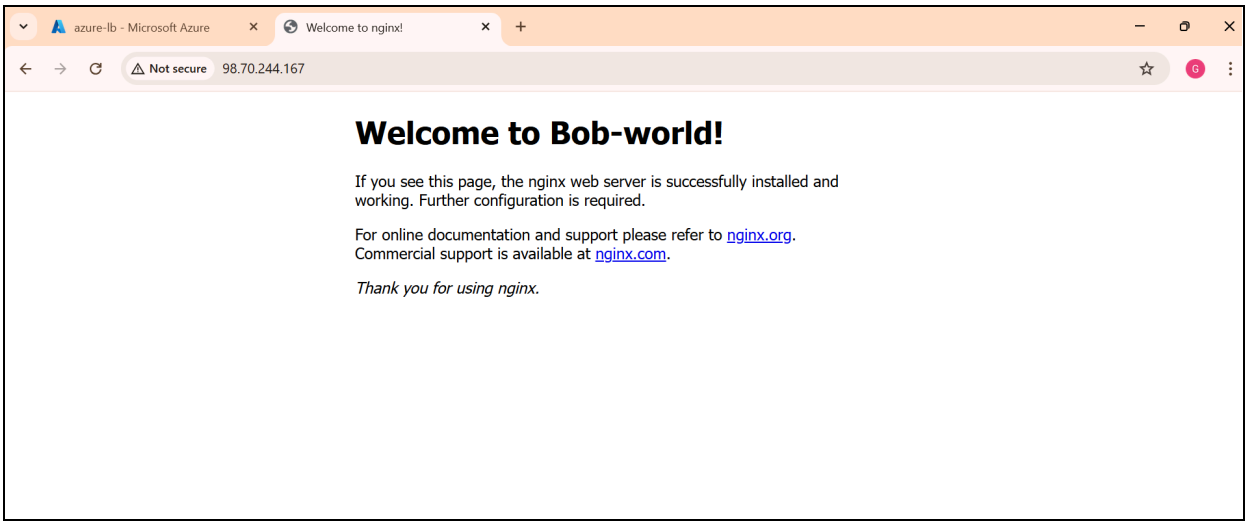


fig(4) successfully created a load balancer.

→ Before browsing the load balancer ip address, first login to the vm02 and change the content so that we can know which server our request is hitting.

- Vm01 = welcome to nginx!
- Vm02 = welcome to Bob world!

→ Now we know from which server we are getting response either normal or the edited one.



fig(5) got a response from the edited server.