Module 3 - Lab 6: Create a Private Link service by using the Azure portal

| C | perates behind Azure S | • | mers of your service can acc | | You can give Private Link access to the service or resource that orivately from their own virtual networks. In this lab, you learn |
|--------------------------|------------------------------------|--|--------------------------------|----------------|--|
| ask 1 | : Sign in to the Az | ure portal | | | |
|] 1. | Sign in to the Azure po | ortal 🆍 https://portal.azure.c | com using the username 🚹 | <u>sheikh</u> | nnasir8E0UI@gdcs4.com and password 👔 RO1vRC28T7k9UA |
| sk 2 | 2: Create the virtua | al network | | | |
| 3 li | n this section, you'll cre | eate a virtual network and subn | et. | | |
|] 1. | On the upper-left side | of the screen, select Create a | resource > Networking > ' | Virtual | network or search for Virtual network in the search box. |
| 2. | Select + Create. In Cre | eate virtual network, enter or | select this information in the | e Basic | :s tab: |
| | Setting | Value | | | |
| | Project Details | | | | |
| Subscription CloudShare4 | | | | | |
| | Resource Group | unrecognised token (\$ | gd.com(azure).resourceGr | oups(n | nyResourceGroupLB)) |
| | Instance details | | | | |
| | Name | | | | |
| | Region | East US | | | |
| | Setting IPv4 address space | | | | Value 10.3.0.0/16 |
|) E | Under Subnet name , | coloct + Add Subpat | | | B INDIVIDUE |
| | In Edit subnet , enter t | | | | |
| | Setting | | | Value | |
| | Subnet name | | | myBa | ckendSubnet |
| | Subnet address range | 2 | | <u>10.</u> | 3.0.0/24 |
| 7. | Select Add . | | | | |
| 8. | Select the Review + c | reate tab or select the Review | + create button. | | |
| 9. | Select Create . | | | | |
| sk 3 | 3: Create a standar | d load balancer | | | |
| | Jse the portal to create ront end. | a standard internal load baland | cer. The name and IP addres | ss you s | specify are automatically configured as the load balancer's |
| 1. | On the upper-left side | of the portal, select Create a r | resource > Networking > L | oad Ba | alancer. |
| 2. | Select +Create and or | n the Basics tab of the Create I | oad balancer page, enter o | r select | the following information: |
| | Setting | Value | | | |
| | Subscription | CloudShare4 | | | |

| Value |
|--|
| CloudShare4 |
| unrecognised token (\$gd.com(azure).resourceGroups(myResourceGroupLB)) from the box. |
| myLoadBalancer myLoadBalancer |
| East US. |
| Internal. |
| |

| | Setting | Value | | | | | |
|-------------------------------|--|--|--|--|--|--|--|
| | SKU | Standard. | | | | | |
| | Virtual network | myVNet. | | | | | |
| | IP address assignment | Static. | | | | | |
| | Private IP address | Enter an address that's in the address space of your virtual network and subnet. An example is 10.3.0.7. | | | | | |
| | 3. Select the Next: Frontend IP | Configuration button at the bottom of the page. | | | | | |
| | 4. Select +Add a frontend IP and enter the following information | | | | | | |
| | Setting | Value | | | | | |
| | Name | LoadBalancerFrontEnd | | | | | |
| | Virtual network | myVNet. | | | | | |
| | IP address assignment | Static. | | | | | |
| | Private IP address | Enter an address that's in the address space of your virtual network and subnet. An example is 10.3.0.7. | | | | | |
| | 5. Accept the defaults for the remaining settings, and then select Review + create | | | | | | |
| | 6. On the Review + create tab, select Create . | | | | | | |
| Task | 4: Create standard load | balancer resources | | | | | |
| 0 | In this task, you configure load balancer settings for a back-end address pool and a health probe. You also specify load balancer rules. | | | | | | |
| | A back-end address pool contains the IP addresses of the virtual NICs connected to the load balancer. This pool lets you distribute traffic to your resources. Create the back-end address pool named myBackendPool to include resources that load balance traffic. | | | | | | |
| | 1. Select All Services from the l | eftmost menu. | | | | | |
| | 2. Select All resources , and the | n select myLoadBalancer from the resources list. | | | | | |
| | 3. Under Settings , select Backe | nd pools, and then select +Add. | | | | | |
| | 4. On the Add a backend pool | page, enter 🌆 myBackendPool as the name for your back-end pool, and then select Add. | | | | | |
| Task 5: Create a health probe | | | | | | | |
| 8 | Use a health probe to let the load balancer monitor resource status. Based on resource response to health checks, the health probe dynamically adds or removes resources from the load balancer rotation. | | | | | | |
| | To create a health probe to monitor the health of the resources: | | | | | | |
| | 1. Select All resources on the leftmost menu, and then select myLoadBalancer from the resource list. | | | | | | |
| | 2. Under Settings , select Health probes , and then select Add . | | | | | | |
| | 3. On the Add a health probe page, enter or select the following values: | | | | | | |
| | • Name: Enter https://www.enter.com/myHealthProbe. | | | | | | |
| | Protocol: Select TCP. | | | | | | |
| | • Port: Enter 80. | | | | | | |
| | • Interval: Enter 15. Th | is value is the number of seconds between probe attempts. | | | | | |
| | Unhealthy threshold: Enter 2. This value is the number of consecutive probe failures that occur before a virtual machine is considered unhealthy | | | | | | |
| | 4. Select Add . | | | | | | |

Task 6: Create a load balancer rule

- ② A load balancer rule defines how traffic is distributed to resources. The rule defines:
 - The front-end IP configuration for incoming traffic.
 - The back-end IP pool to receive the traffic.
 - The required source and destination ports.

The load balancer rule named **myLoadBalancerRule** listens to port 80 in the **LoadBalancerFrontEnd** front end. The rule sends network traffic to the **myBackendPool** back-end address pool on the same port 80.

| 1. Select All resources on the leftmost menu, and then select myLoadBalancer from the resource list. | | | | | | | | | |
|---|--|--|--|--|--|--|--|--|--|
| 2. Under Settings , select Load-balancing rules , and then select +Add . | | | | | | | | | |
| 3. On the Add load-balancing rule page, enter or select the following values if they aren't already present: | | | | | | | | | |
| • Name: Enter https://www.combalancerRule. | | | | | | | | | |
| Frontend IP address: Enter LoadBalancerFrontEnd. | | | | | | | | | |
| • Protocol: Select TCP. | | | | | | | | | |
| Port: Enter 80. | | | | | | | | | |
| Backend port: Enter 80. | | | | | | | | | |
| Backend pool: Select myBackendPool. | | | | | | | | | |
| Health probe: Select myHealthProbe. | | | | | | | | | |
| ☐ 4. Select Add . | | | | | | | | | |
| Task 7: Create a Private Link service | | | | | | | | | |
| In this task, you create a Private Link service behind a standard load balancer. | | | | | | | | | |
| 1. On the upper-left part of the page in the Azure portal, select Create a resource > Networking > Private Link Center (Preview) . You can also use the portal's search box to search for Private Link. | | | | | | | | | |
| 2. In Private Link Center - Overview > Expose your own service so others can connect, select Start. | | | | | | | | | |
| 3. Under Create a private link service - Basics, enter or select this information: | | | | | | | | | |
| Setting Value | | | | | | | | | |
| Project details: | | | | | | | | | |
| Subscription Select your subscription. | Select your subscription. | | | | | | | | |
| | unrecognised token (\$gd.com(azure).resourceGroups(myResourceGroupLB)) | | | | | | | | |
| Instance details: | | | | | | | | | |
| | myPrivateLinkService | | | | | | | | |
| Region East US | East US | | | | | | | | |
| 4. Select Next: Outbound settings. | | | | | | | | | |
| 5. Under Create a private link service - Outbound settings, enter or select this information: | | | | | | | | | |
| Setting Value | | | | | | | | | |
| Load Balancer myLoadBalancer. | | | | | | | | | |
| Load Balancer frontend IP address the front-end IP address of myLoadBalancer. | | | | | | | | | |
| Source NAT Virtual network myVNet. | | | | | | | | | |
| Source NAT subnet myBackendSubnet. | | | | | | | | | |
| Enable TCP proxy v2 Select YES or NO depending on whether your application expects a TCP proxy v2 header. | | | | | | | | | |
| Private IP address settings Configure the allocation method and IP address for each NAT IP. | | | | | | | | | |
| 6. Select Next: Access security. | | | | | | | | | |
| | | | | | | | | | |
| 7. Under Create a private link service - Access security, select Visibility, and then choose Role-Based access control only. | | | | | | | | | |
| 7. Under Create a private link service - Access security, select Visibility, and then choose Role-Based access control only. 8. Either select Next: Tags > Review + create or choose the Review + create tab at the top of the page. | | | | | | | | | |
| | | | | | | | | | |

To create a load balancer rule: