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***LOAD BALANCER***



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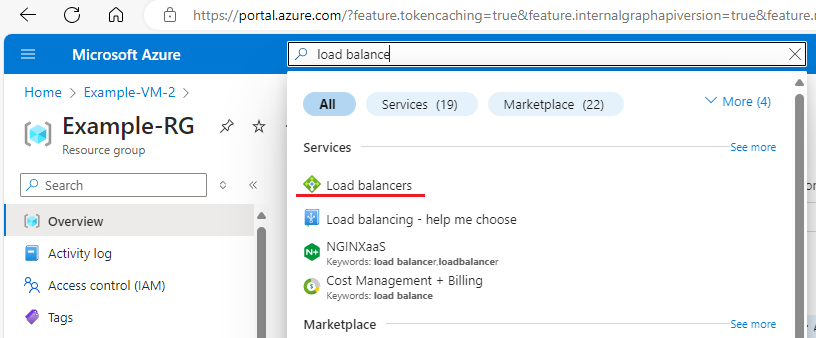
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[**4.**](#_heading=h.1y810tw) **REFERENCE 11**

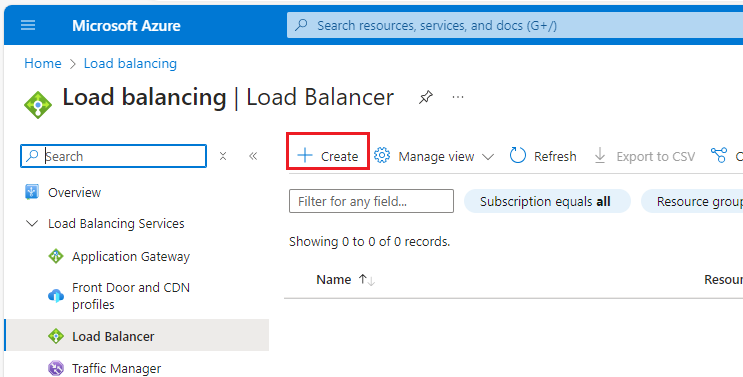
**Steps:**

1. Log in to the Azure portal

* Navigate to Load Balancers
* In the Azure portal, search for "Load Balancer" in the search bar.
* Click on **"Load Balancers"** under the "Services" section

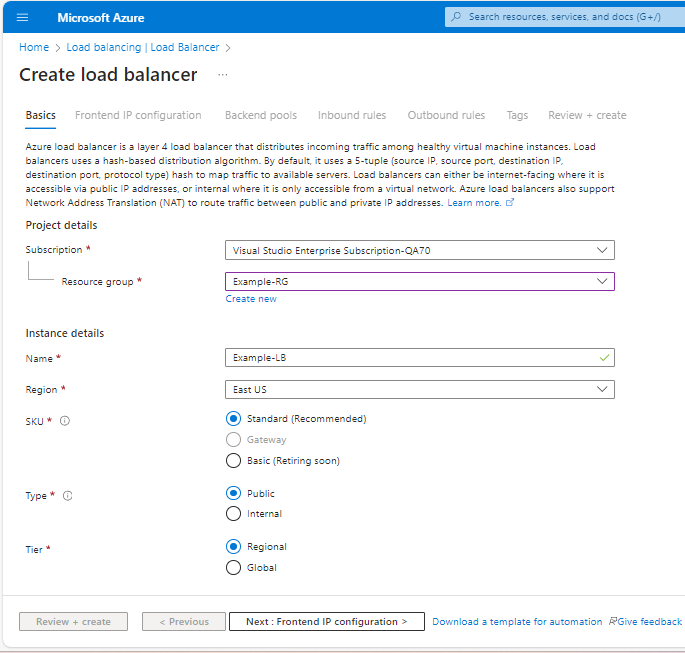


1. To Create a Load Balancer Click **"Create"**.



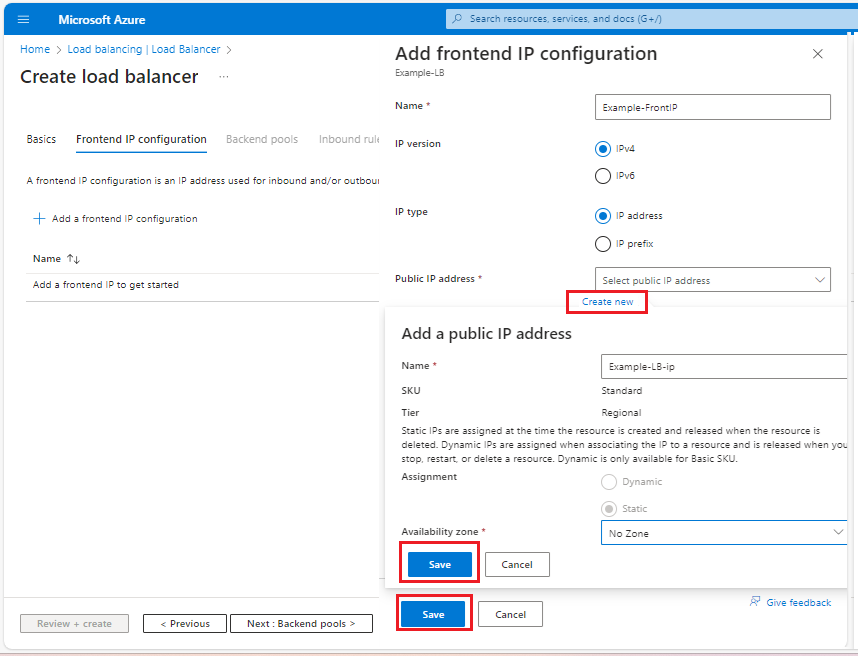
1. Fill out the required fields:

* Subscription: Select your subscription.
* Resource Group: Choose an existing resource group or create a new one.
* Name: Enter a name for the load balancer.
* Region: Choose the region where you want to deploy the load balancer.
* Select SKU : Standard, Type:Public, Tire: Regional



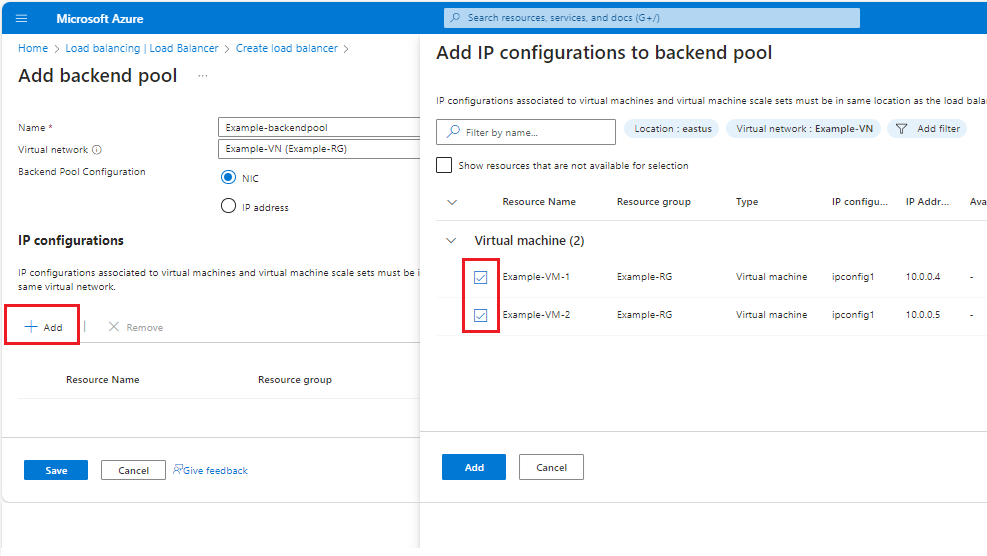
1. Configure Frontend IP

* For a **Public Load Balancer**:
* Under the "Frontend IP configuration" tab, click **"Add frontend IP configuration"**.
* Enter a name for the frontend IP configuration.
* Choose an existing public IP address or create a new one.Click on save
* Also save Add frontend IP configuration
* Click on next to add backed pool



1. Configure Backend Pool

* Go to the "Backend pools" tab and click **"Add"**.
* Enter a name for the backend pool.
* Under "Associate with", select the virtual network where your VMs are located.
* Click **"Add"** to create the backend pool.



1. Configure Health Probes
   * Go to the "Health probes" tab and click **"Add"**.
   * Enter a name for the health probe.
   * Choose the protocol (TCP, HTTP, or HTTPS) and specify the port.
   * Configure additional settings as needed (interval, unhealthy threshold).
   * Click **"Add"**.
2. Configure Load Balancing Rules
   * Go to the "Load balancing rules" tab and click **"Add"**.
   * Enter a name for the rule.
   * Choose the frontend IP configuration you created earlier.
   * Choose the backend pool.
   * Select the protocol (TCP or UDP), and specify the frontend and backend ports.
   * Select the health probe you created earlier.
   * Configure other settings as needed.
   * Click **"Add"**.
3. Review and Create
   * Review your settings and click **"Create"** to deploy the load balancer.

2. Attach Existing VMs to the Load Balancer

1. Go to the Load Balancer
   * Navigate to the Load Balancer you just created in the Azure portal.
2. Configure the Backend Pool
   * Go to the "Backend pools" section.
   * Click on the backend pool you created.
   * Click **"Add"** under the "Targets" section.
   * Select the virtual machines you want to add to the backend pool.
   * Choose the NICs (Network Interface Cards) if applicable.
   * Click **"Add"**.
3. Verify Network Security Groups (NSGs)
   * Ensure that the Network Security Groups (NSGs) associated with your VMs allow traffic on the ports configured in your load balancing rules.
   * Adjust inbound security rules if necessary.
4. Verify VM Configuration
   * Make sure your VMs are configured to handle traffic on the ports specified in the load balancing rule.
5. Test the Load Balancer
   * Once everything is set up, test the load balancer by accessing the frontend IP address or DNS name.
   * Check if traffic is being distributed to the attached VMs as expected.

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