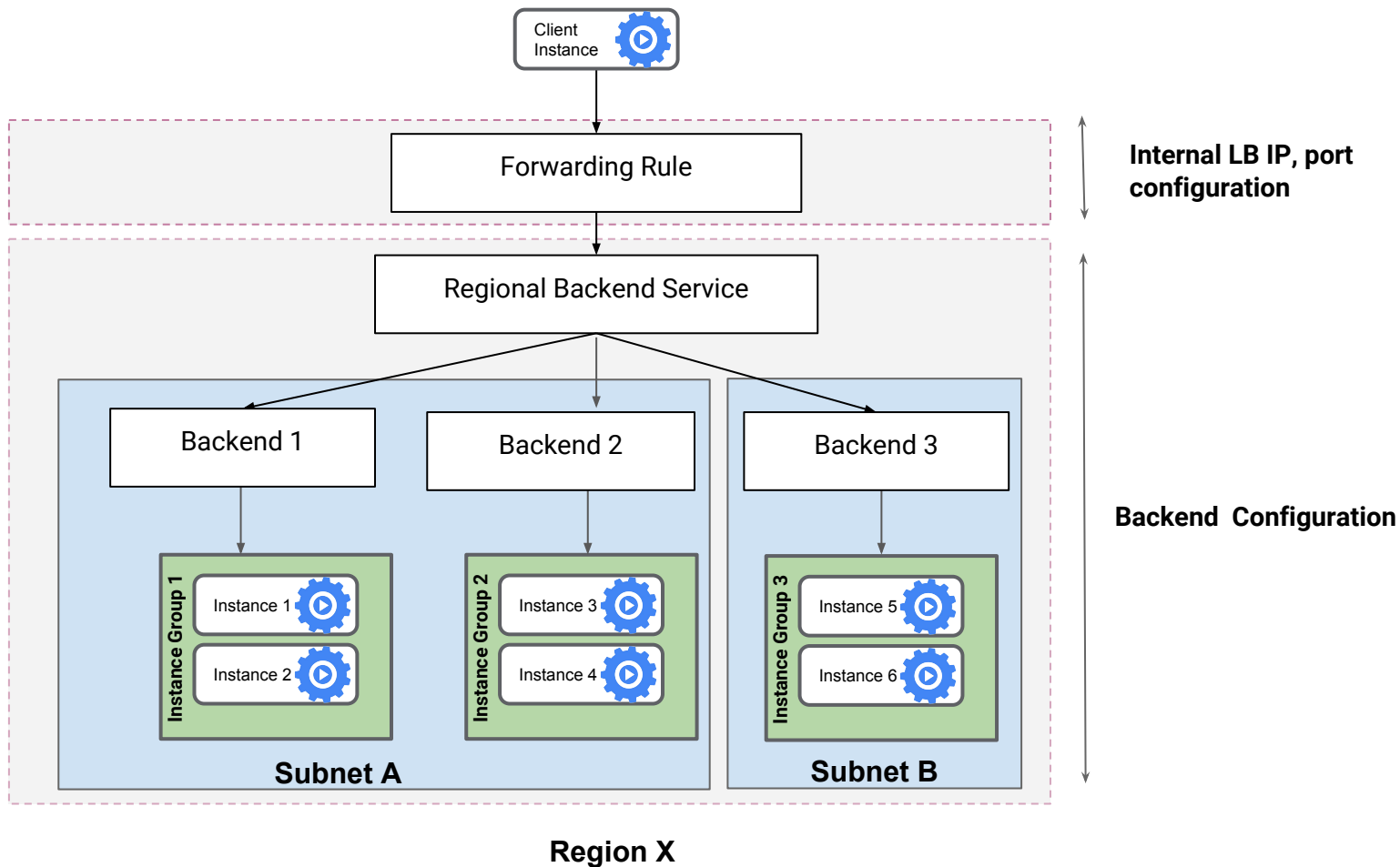




# Configuring Internal Load Balancing (console)

# Internal Load Balancing Configuration



# 1. Click “create load balancer” to get started

Click Create

The screenshot shows the Google Cloud Platform console interface. On the left is a sidebar with navigation icons and labels: Home, API, Networks, External IP addresses, Firewall rules, Routes, Load balancing (highlighted in blue), Cloud DNS, VPN, and Cloud Routers. The main content area is titled 'Load balancing' and includes a '+ CREATE LOAD BALANCER' button and a 'REFRESH' button. Below this is a table with two columns: 'Load balancer' and 'Protocol'. The table contains two entries: 'abc' with protocol 'HTTP(S)' and 'lb-pool' with protocol 'TCP'. Each entry has a green checkmark icon and an 'Edit' button. Below the table, there is a note: 'To edit load balancing resources like forwarding rules and target proxies, go to the [advanced menu](#).'

| Load balancer | Protocol |
|---------------|----------|
| ✓ abc         | HTTP(S)  |
| ✓ lb-pool     | TCP      |












To edit load balancing resources like forwarding rules and target proxies, go to the [advanced menu](#).

## 2. Select the type of Internal Load Balancer- either TCP or UDP

The screenshot displays the Google Cloud Platform console's 'Load balancing' page. The left-hand navigation pane is expanded to 'Networking', with 'Load balancing' selected. The main content area is divided into three columns, each representing a different type of load balancer:

- HTTP(S) Load Balancing**: Layer 7 load balancing for HTTP and HTTPS applications. Configuration options include HTTP LB and HTTPS LB. A 'Start configuration' button is at the bottom.
- TCP Load Balancing**: Layer 4 load balancing or proxy for applications that rely on TCP/SSL protocol. Configuration options include TCP LB and SSL Proxy. A 'Start configuration' button is at the bottom. A yellow callout box points to this button with the text 'Click here for TCP ILB'.
- UDP Load Balancing**: Layer 4 load balancing for applications that rely on UDP protocol. Configuration options include UDP LB. A 'Start configuration' button is at the bottom.

### 3. Specify you want to load balance traffic between your instances (internal)



Networking

← Load balancing

Please answer a few questions to help us select the right load balancing type for your application.

**Internet facing or internal only**  
Do you want to load balance traffic from the Internet to your VMs or only between VMs in your network?  
☐ From Internet to my VMs  
☒ Only between my VMs

**Connection termination**  
Do you want to offload SSL processing to the Load Balancer?  
☐ Yes (SSL Proxy)  
☒ No (TCP)

[Continue](#)

Specify you want internal load balancing

## 4. Configure your backends in your region of choice

**Networking**

- Networks
- External IP addresses
- Firewall rules
- Routes
- Load balancing
- Cloud DNS
- VPN
- Cloud Routers

**New Internal load balancer**

**Backend configuration**

**Backend service**

Name: shopping-service-ilb

Region: us-central1

Network: my-custom-network

Protocol: TCP

**Backends**

Instance group: us-ig2 (us-central1-c)

**Health check**

shopping-tcp-hck

port: 8080, timeout: 5s, check interval: 5s, unhealthy threshold: 2 attempts

**Session affinity**

None

**Review and finalize**

Optional

Create Cancel

**Remember to open up firewall for ILB health checks**

**Configure backends**

## 5. Configure your RFC 1918 Internal LB IP (specify or let ILB auto-allocate)

The screenshot shows the Google Cloud Platform console interface for configuring a new internal load balancer. The left sidebar contains navigation links for Networking, API, and various network services. The main content area is titled 'New Internal load balancer' and is divided into two sections: 'Backend configuration' and 'Frontend configuration'. The 'Frontend configuration' section is currently active, showing a table with one row for 'TCP' protocol, 'my-custom-subnet' subnetwork, 'Automatic' IP address, and '8080' port. A yellow callout box points to the 'Add frontend IP and port' button, with the text 'Configure Internal Load Balancing IP and port (or list of ports)'.

| Protocol                                   | Subnetwork       | IP address | Ports |
|--|------------------|------------|-------|
| TCP  | my-custom-subnet | Automatic  | 8080  |
| <a href="#">+ Add frontend IP and port</a> |                  |            |       |

Configure Internal Load Balancing IP and port (or list of ports)

## 6. Click “create” and your ILB is ready to distribute traffic!

The screenshot displays the Google Cloud Platform console interface for creating a new internal load balancer. The left sidebar shows the 'Networking' section with 'Load balancing' selected. The main content area is titled 'New Internal load balancer' and is divided into two columns. The left column shows the configuration steps: 'Name' (shopping-service-ilb), 'Backend configuration' (Your backend is configured), 'Frontend configuration' (Your frontend is configured), and 'Review and finalize' (Optional). The 'Create' button is highlighted with a yellow callout box that says 'Click Create. Done!'. The right column shows the 'Frontend configuration' details, including 'Protocol' (TCP), 'Subnetwork' (my-custom-subnet), 'IP address' (Automatic), and 'Ports' (8080). A '+ Add frontend IP and port' button is also visible.

Networking

← New Internal load balancer

Frontend configuration

Name ?  
shopping-service-ilb

✓ Backend configuration  
Your backend is configured

✓ Frontend configuration  
Your frontend is configured →

ⓘ Review and finalize  
Optional

Create Cancel

Click Create. Done!

Protocol: TCP, Subnetwork: my-custom-subnet, IP address: Automatic, Ports: 8080

+ Add frontend IP and port



Learn more



<https://cloud.google.com/compute/docs/load-balancing/internal/>