

Forwarding Ports to Compute Instances

Preparing the Compute Instance

Oracle's pre-prepared Ubuntu Server images have a lot of iptables rules configured, one of which disallows all incoming traffic apart from TCP port 22 (SSH) and ICMP. Since our Compute Instance is behind a NAT network (the Oracle VCN) it is safe to remove this rule.

Checking the current iptables rules

First, use this command to see the current iptables rules:

```
sudo iptables --list --line-numbers
```

Which should give an output similar to this:

```
Chain INPUT (policy ACCEPT)
num  target      prot opt source                destination              state RELATED,ESTABLISHED
1    ACCEPT      all  --  anywhere              anywhere
2    ACCEPT      icmp --  anywhere              anywhere
3    ACCEPT      all  --  anywhere              anywhere
4    ACCEPT      udp  --  anywhere              anywhere                  udp spt:ntp
5    ACCEPT      tcp  --  anywhere              anywhere                  state NEW tcp dpt:ssh
6    REJECT      all  --  anywhere              anywhere                  reject-with icmp-host-
prohibited
```

Removing the REJECT rule

The line we are interested in removing contains REJECT. In this case, it is line 6. To remove it, we can use the following command:

```
sudo iptables -D INPUT 6
```

Confirming that the rule has been deleted

Now, rerun the list command to confirm that the REJECT rule has been deleted:

```
sudo iptables --list --line-numbers
Chain INPUT (policy ACCEPT)
num  target      prot opt source                destination              state
1    ACCEPT      all  --  anywhere              anywhere                 state RELATED,ESTABLISHED
2    ACCEPT      icmp --  anywhere              anywhere
3    ACCEPT      all  --  anywhere              anywhere
4    ACCEPT      udp  --  anywhere              anywhere                 udp spt:ntp
5    ACCEPT      tcp  --  anywhere              anywhere                 state NEW tcp dpt:ssh
```

Creating an Ingress Rule in Oracle Cloud

We've now deleted the REJECT rule in our Compute Instance, so we now need to modify the VCN to add an ingress rule (aka port forward) to our Compute Instance.

Compute Instance

To do this, go to your Compute Instance and click on the subnet link at the bottom (under the **Primary VNIC** section)

Compute » Instances » Instance Details



Always Free

Start Stop Reboot Edit More Actions ▼

Instance Information Oracle Cloud Agent Tags

General Information

Availability Domain:

Fault Domain:

Region:

OCID: [Show](#) [Copy](#)

Launched: Sun, Feb 21, 2021, 00:51:00 UTC

Compartment: (root)

Instance Details

Virtual Cloud Network: [vcn-20210220-2150](#)

Maintenance Reboot: -

Instance Access

You [connect to a running Linux instance](#) using an SSH key pair that was used to create the instance.

Public IP Address: [Copy](#)

Username: ubuntu

Primary VNIC

Private IP Address: 10.0.0.4

Network Security Groups: None [Edit](#) ⓘ

Internal FQDN:

Subnet: [-subnet](#) 

RUNNING

Subnet

Once in the subnet, go to the Security Lists section and click on the **Default Security List**:

Security Lists

Add Security List

Name

State

[Default Security List for vcn-20210220-2150](#)

● Available

Creating the Ingress rule

Click **Add Ingress Rules**. If you don't want to restrict the source IP address, enter 0.0.0.0/0 in the CIDR. Otherwise, specify the allowed IP address with a /32 on the end. Choose the protocol (in this example I am using TCP) and specify the destination ports (in this example 80 & 443). You can also add a description if required.

Add Ingress Rules

[Cancel](#)

Ingress Rule 1

Allows TCP traffic 80,443

☐ STATELESS ⓘ

SOURCE TYPE

SOURCE CIDR

IP PROTOCOL ⓘ

CIDR

0.0.0.0/0

TCP

Specified IP addresses: 0.0.0.0-255.255.255.255 (4,294,967,296 IP addresses)

SOURCE PORT RANGE OPTIONAL ⓘ

DESTINATION PORT RANGE OPTIONAL ⓘ

All

80,443

Examples: 80, 20-22

Examples: 80, 20-22

DESCRIPTION OPTIONAL

HTTP & HTTPS

Maximum 255 characters

+ Another Ingress Rule

Add Ingress Rules

Cancel

Revision #6

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