

LAPORAN MATA KULIAH KOMPUTASI AWAN

Virtual Cloud Network (VCN)

**Oleh:
Moch Abizar Daffa W**

TI-3F

NIM: 1941720041

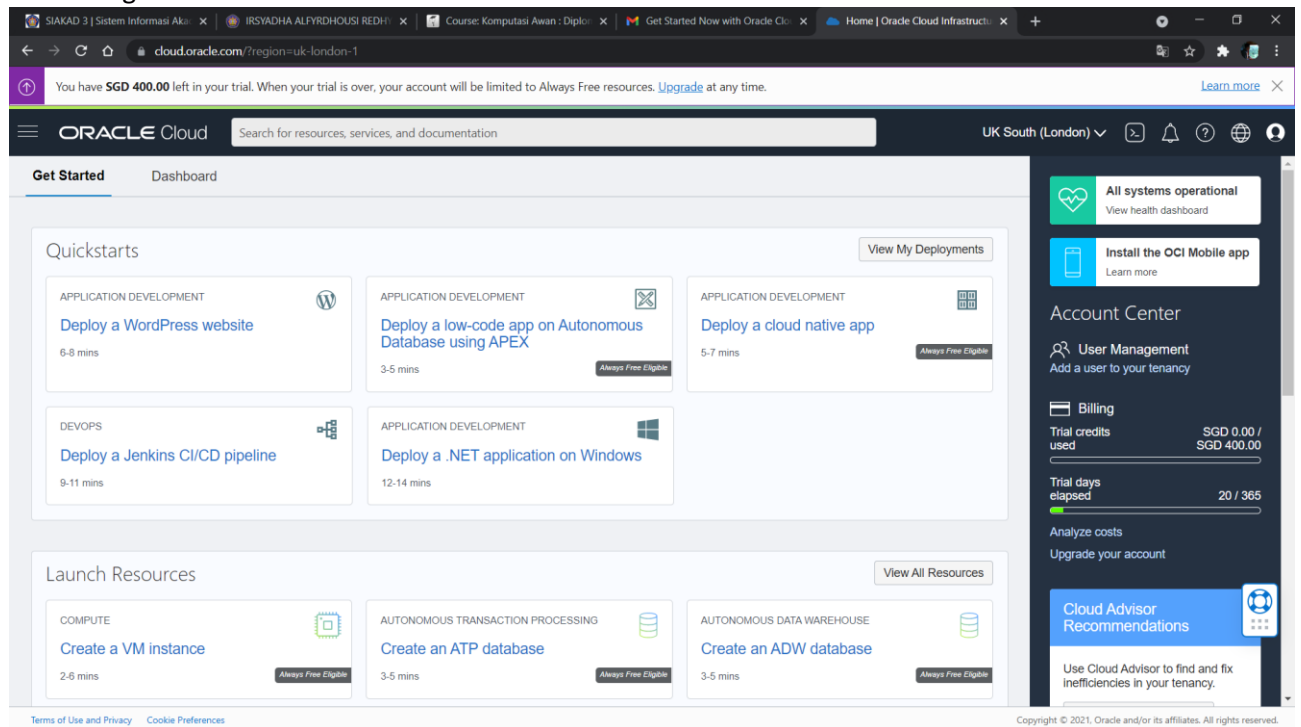


**PROGRAM STUDI TEKNIK INFORMATIKA JURUSAN
TEKNOLOGI INFORMASI POLITEKNIK NEGERI
MALANG**

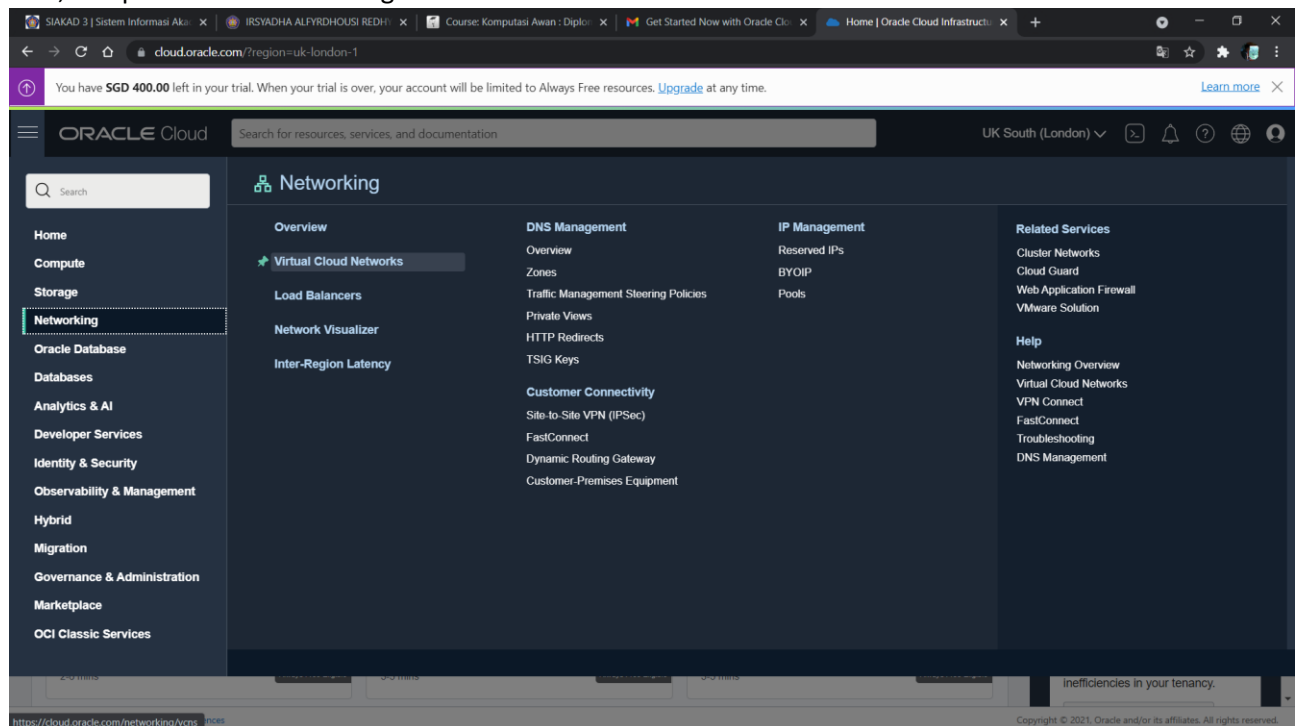
SEPTEMBER 2021

PRAKTIKUM 1 :

1. Silakan login ke akun Oracle Cloud.



2. Setelah berhasil login dan ada di beranda Oracle Cloud akun Anda, silakan pilih menu di pojok kiri atas, lalu pilih menu Networking > Virtual Cloud Networks.



3. Pastikan VCN sudah ada, biasanya jika berhasil telah membuat VM dari modul pertemuan sebelumnya maka VCN akan tampil di sini. Silakan klik nama VCN tersebut

Virtual Cloud Networks are virtual, private networks that you set up in Oracle data centers. It closely resembles a traditional network, with firewall rules and specific types of communication gateways that you can choose to use.

[Create VCN](#) [Start VCN Wizard](#)

Name	State	IPv4 CIDR Block	IPv6 CIDR Block	Default Route Table	DNS Domain Name	Created
vcn-20210909-1527	Available	10.0.0.0/16	-	Default Route Table for vcn-20210909-1527	vcn09091528.oraclevcn.com	Thu, Sep 9, 2021, 08:27 UTC

Showing 1 Item < 1 of 1 >

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4. Pilih Security Lists di panel kiri (Resources), lalu pilih Default Security List di tabel yang tersedia

[Create Security List](#)

Name	State	Created
Default Security List for vcn-20210909-1527	Available	Thu, Sep 9, 2021, 08:28:27 UTC

Showing 1 Item < 1 of 1 >

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5. Klik tombol biru Add Ingress Rules untuk menambahkan port.

Default Security List for vcn-20210909-1527

Instance traffic is controlled by firewall rules on each Instance in addition to this Security List

Move Resource Add Tags Terminate

Security List Information Tags

OCID: ...5lo2ua Show Copy Compartment: y941720041 (root)

Created: Thu, Sep 9, 2021, 08:28:27 UTC

Resources

Ingress Rules (3)

Egress Rules (1)

Add Ingress Rules Edit Remove

	Stateless	Source	IP Protocol	Source Port Range	Destination Port Range	Type and Code	Allows	Description
<input type="checkbox"/>	No	0.0.0.0/0	TCP	All	22	SSH Remote Login Prot		TCP traffic for ports: 22 SSH Remote Login Prot

6. Isilah ingress rule dengan nilai-nilai seperti gambar di bawah.

Add Ingress Rules

Ingress Rule 1

Allows TCP traffic 80

☒ Stateless

To enable bidirectional traffic flow, make sure a complementary rule in the opposite direction exists.

Source Type CIDR Source CIDR 0.0.0.0/0 IP Protocol TCP

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

Source Port Range Optional All Destination Port Range Optional 80

Examples: 80, 20-22 Examples: 80, 20-22

Description Optional Allow HTTP connections

Maximum 255 characters

+ Another Ingress Rule

Add Ingress Rules Cancel

7. Terakhir, klik tombol Add Ingress Rules. Sekarang koneksi HTTP telah diizinkan. VCN Anda telah dikonfigurasi untuk Apache server.

STAKAD 3 | Sistem Informasi Akuntansi

IRSYADHA ALFYRDHOUSI REDHANI

Course: Komputasi Awan : Diploma 4

Get Started Now with Oracle Cloud

Virtual Cloud Networks | Oracle Cloud

cloud.oracle.com/networking/vcn/ocid1.vcn.oc1.uk-london-1.amaaaaaaxswomaqahocwg5qvr57qvp3pyhn5venlofpz6duwgl6dsnmw2eq/security-lists/ocid1.securitylist.oc1.uk-london-1.aaaaaaxswomaqahocwg5qvr57qvp3pyhn5venlofpz6duwgl6dsnmw2eq

You have SGD 400.00 left in your trial. When your trial is over, your account will be limited to Always Free resources. Upgrade at any time.

Learn more

ORACLE Cloud

Search for resources, services, and documentation

UK South (London)

AVAILABLE

OCID: ...5lo2ua

Show

Copy

Compartment: y941720041 (root)

Created: Thu, Sep 9, 2021, 08:28:27 UTC

Resources

Ingress Rules (4)

Egress Rules (1)

Ingress Rules

Add Ingress Rules

Edit

Remove

<input type="checkbox"/>	Stateless	Source	IP Protocol	Source Port Range	Destination Port Range	Type and Code	Allows	Description
<input type="checkbox"/>	Yes	0.0.0.0/0	TCP	All	80		TCP traffic for ports: 80	Allow HTTP connections
<input type="checkbox"/>	No	0.0.0.0/0	TCP	All	22		TCP traffic for ports: 22	SSH Remote Login Protocol
<input type="checkbox"/>	No	0.0.0.0/0	ICMP			3, 4	ICMP traffic for: 3, 4	Destination Unreachable: Fragmentation Needed and Don't Fragment was Set
<input type="checkbox"/>	No	10.0.0.0/16	ICMP			3	ICMP traffic for: 3	Destination Unreachable

0 Selected

Showing 4 Items < 1 of 1 >

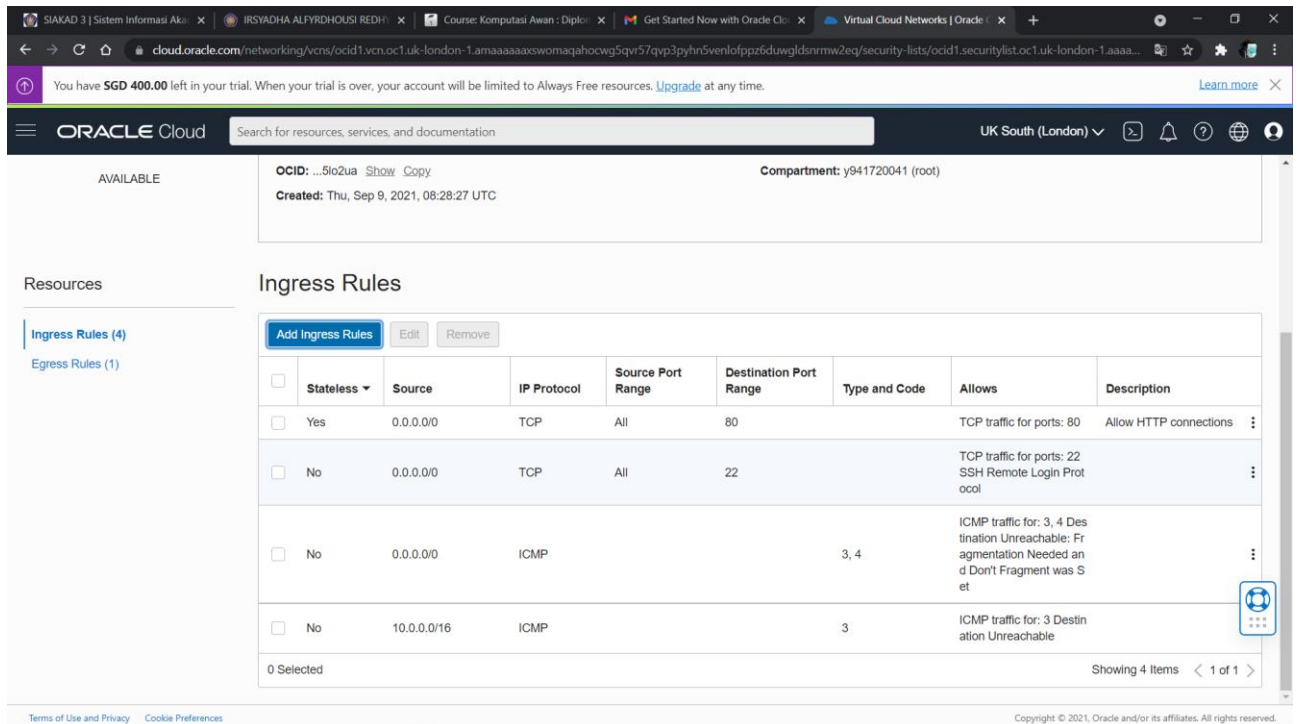
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PRAKTIKUM 2 :

1. Aktifkan XAMPP.



The screenshot shows the Oracle Cloud console interface. At the top, there's a navigation bar with the Oracle Cloud logo and a search bar. Below this, the 'Ingress Rules' section is active, displaying a table of rules. The table has columns for 'Stateless', 'Source', 'IP Protocol', 'Source Port Range', 'Destination Port Range', 'Type and Code', 'Allows', and 'Description'. There are four rules listed: 1) Stateless Yes, Source 0.0.0.0/0, TCP, All, 80, 'TCP traffic for ports: 80', 'Allow HTTP connections'. 2) Stateless No, Source 0.0.0.0/0, TCP, All, 22, 'TCP traffic for ports: 22', 'SSH Remote Login Protocol'. 3) Stateless No, Source 0.0.0.0/0, ICMP, 3, 4, 'ICMP traffic for: 3, 4', 'Destination Unreachable: Fragmentation Needed and Don't Fragment was Set'. 4) Stateless No, Source 10.0.0.0/16, ICMP, 3, 'ICMP traffic for: 3', 'Destination Unreachable'. The bottom of the table shows '0 Selected' and 'Showing 4 Items'.

	Stateless	Source	IP Protocol	Source Port Range	Destination Port Range	Type and Code	Allows	Description
<input type="checkbox"/>	Yes	0.0.0.0/0	TCP	All	80		TCP traffic for ports: 80	Allow HTTP connections
<input type="checkbox"/>	No	0.0.0.0/0	TCP	All	22		TCP traffic for ports: 22	SSH Remote Login Protocol
<input type="checkbox"/>	No	0.0.0.0/0	ICMP			3, 4	ICMP traffic for: 3, 4	Destination Unreachable: Fragmentation Needed and Don't Fragment was Set
<input type="checkbox"/>	No	10.0.0.0/16	ICMP			3	ICMP traffic for: 3	Destination Unreachable

2. Check apa IP kamu.

3. Silakan lakukan perintah berikut baris demi baris untuk menginstall Apache server.

- ```
root@debian:/home/irsyadha# sudo apt update
Ign:1 cdrom://[Debian GNU/Linux 10.5.0 _Buster_ - Official amd64 DVD Binary-1 20200801-11:35] bust
er InRelease
Err:2 cdrom://[Debian GNU/Linux 10.5.0 _Buster_ - Official amd64 DVD Binary-1 20200801-11:35] bust
er Release
Please use apt-cdrom to make this CD-ROM recognized by APT. apt-get update cannot be used to add
new CD-ROMs
Hit:3 http://security.debian.org/debian-security buster/updates InRelease
Reading package lists... Done
E: The repository 'cdrom://[Debian GNU/Linux 10.5.0 _Buster_ - Official amd64 DVD Binary-1 2020080
1-11:35] buster Release' does not have a Release file.
N: Updating from such a repository can't be done securely, and is therefore disabled by default.
N: See apt-secure(8) manpage for repository creation and user configuration details.
root@debian:/home/irsyadha#
```
- ```
root@debian:/home/irsyadha# sudo apt update
Ign:1 cdrom://[Debian GNU/Linux 10.5.0 _Buster_ - Official amd64 DVD Binary-1 20200801-11:35] bust
er InRelease
Err:2 cdrom://[Debian GNU/Linux 10.5.0 _Buster_ - Official amd64 DVD Binary-1 20200801-11:35] bust
er Release
Please use apt-cdrom to make this CD-ROM recognized by APT. apt-get update cannot be used to add
new CD-ROMs
Hit:3 http://security.debian.org/debian-security buster/updates InRelease
Reading package lists... Done
E: The repository 'cdrom://[Debian GNU/Linux 10.5.0 _Buster_ - Official amd64 DVD Binary-1 2020080
1-11:35] buster Release' does not have a Release file.
N: Updating from such a repository can't be done securely, and is therefore disabled by default.
N: See apt-secure(8) manpage for repository creation and user configuration details.
root@debian:/home/irsyadha#
```

4. Jalankan service Apache dengan perintah berikut.

5. Secara default pada VM Ubuntu kita untuk firewall itu statusnya disabled (tidak aktif), maka kita perlu mengaktifkannya dengan melakukan update pada iptabels terlebih dahulu. Lakukan perintah berikut baris demi baris.