

KOMPUTASI AWAN

Tugas 4 - VCN

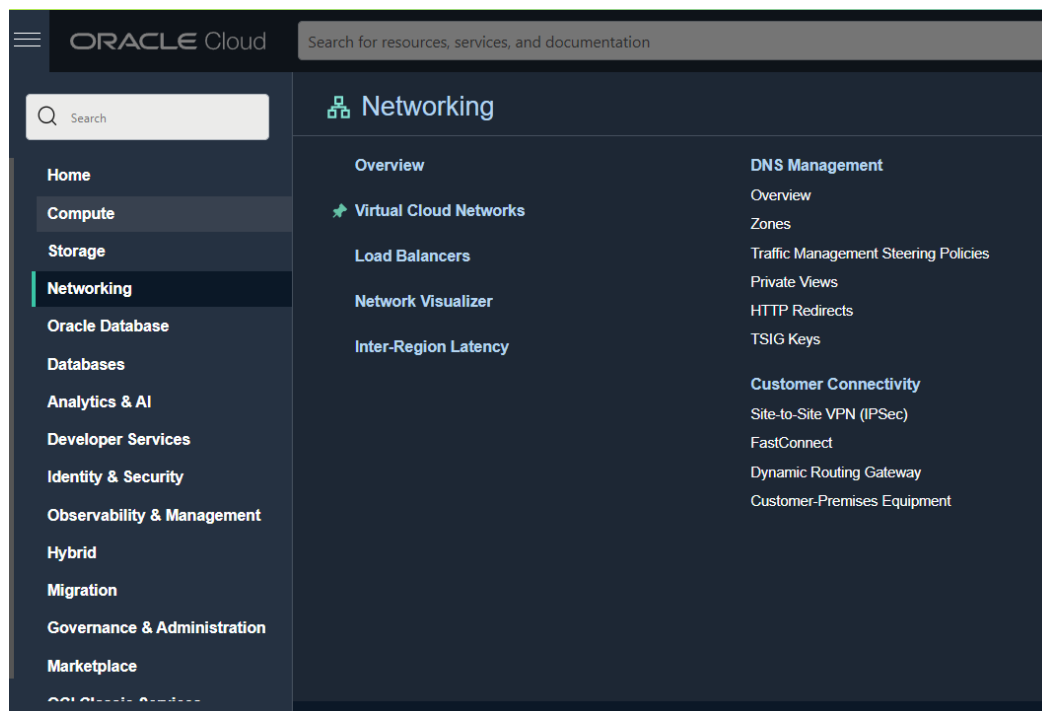
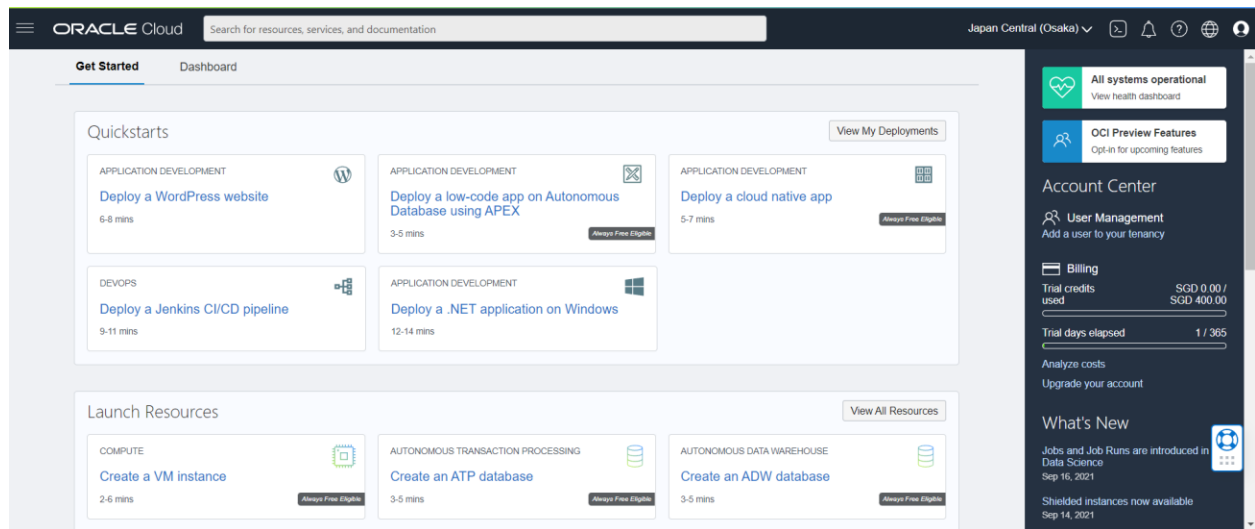
Oleh:

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

Praktikum 1 : Mengaktifkan Port 80 melalui VCN di Oracle Cloud



ORACLE Cloud

Search for resources, services, and documentation

Japan Central (Osaka)

Networking

Overview

Virtual Cloud Networks

Load Balancers

Network Visualizer

Inter-Region Latency

DNS Management

Customer Connectivity

IP Management

Virtual Cloud Networks in y941720235 (root) *Compartment*

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 to choose from.

Create VCN

Start VCN Wizard

Name	State	IPv4 CIDR Block	IPv6 CIDR Block	Default Route Table	DNS Domain Name	Created
vcn-20211104-1615	Available	10.0.0.0/16	-	Default Route Table for vcn-20211104-1615	vcn11041621.oraclevcn.com	Thursday, Nov 4, 2021, 09:22:38 UTC

List Scope

Compartment

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Resources

Subnets (1)

CIDR Blocks (1)

Route Tables (1)

Internet Gateways (1)

Dynamic Routing Gateways Attachments (0)

Network Security Groups (0)

Security Lists (1)

DHCP Options (1)

Local Peering Gateways (0)

NAT Gateways (0)

Security Lists in y941720235 (root) *Compartment*

Create Security List

Name	State
Default Security List for vcn-20211104-1615	Available

ORACLE Cloud

Search for resources, services, and documentation

Japan Central (Osaka)

Networking » Virtual Cloud Networks » vcn-20211104-1615 » Security List Details

SL

AVAILABLE

Default Security List for vcn-20211104-1615

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: `...fxerqa` [Show](#) [Copy](#)

Created: Thu, Nov 4, 2021, 09:22:38 UTC

Compartment: y941720235 (root)

Resources

Ingress Rules (3)

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"/>	No	0.0.0.0/0	TCP	All	22		TCP traffic for ports: 22 SSH Remote Login Protocol	

AppsRuang Kelas - JTI P...SIAKAD 2 | Sistem L...

Reading list

ORACLE Cloud

Search for resources, services, and documentation

Japan Central (Osaka)

Networking » Virtual Cloud Networks » vcn-20211104-1615 » Security Lists

Default Security List

Instance traffic is controlled by the default security list.

Move Resource

Security List Information

OCID: ocid1.securitylist.oc4..vxerga...

Created: Thu, Nov 4, 2021 10:00:00 AM UTC+9

Resources

Ingress Rules (3)

Egress Rules (1)

Add Ingress Rule

Stateless

No

0.0.0.0/0

TCP

All

22

No

TCP traffic for ports: 22 SSH Remote Login Protocol

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 ⓘ

Destination Port Range: Optional ⓘ

Description: Optional

Allow HTTP connections

Maximum 255 characters

+ Another Ingress Rule

Add Ingress RulesCancel

Resources

Ingress Rules (4)

Egress Rules (1)

Add Ingress Rules

Edit

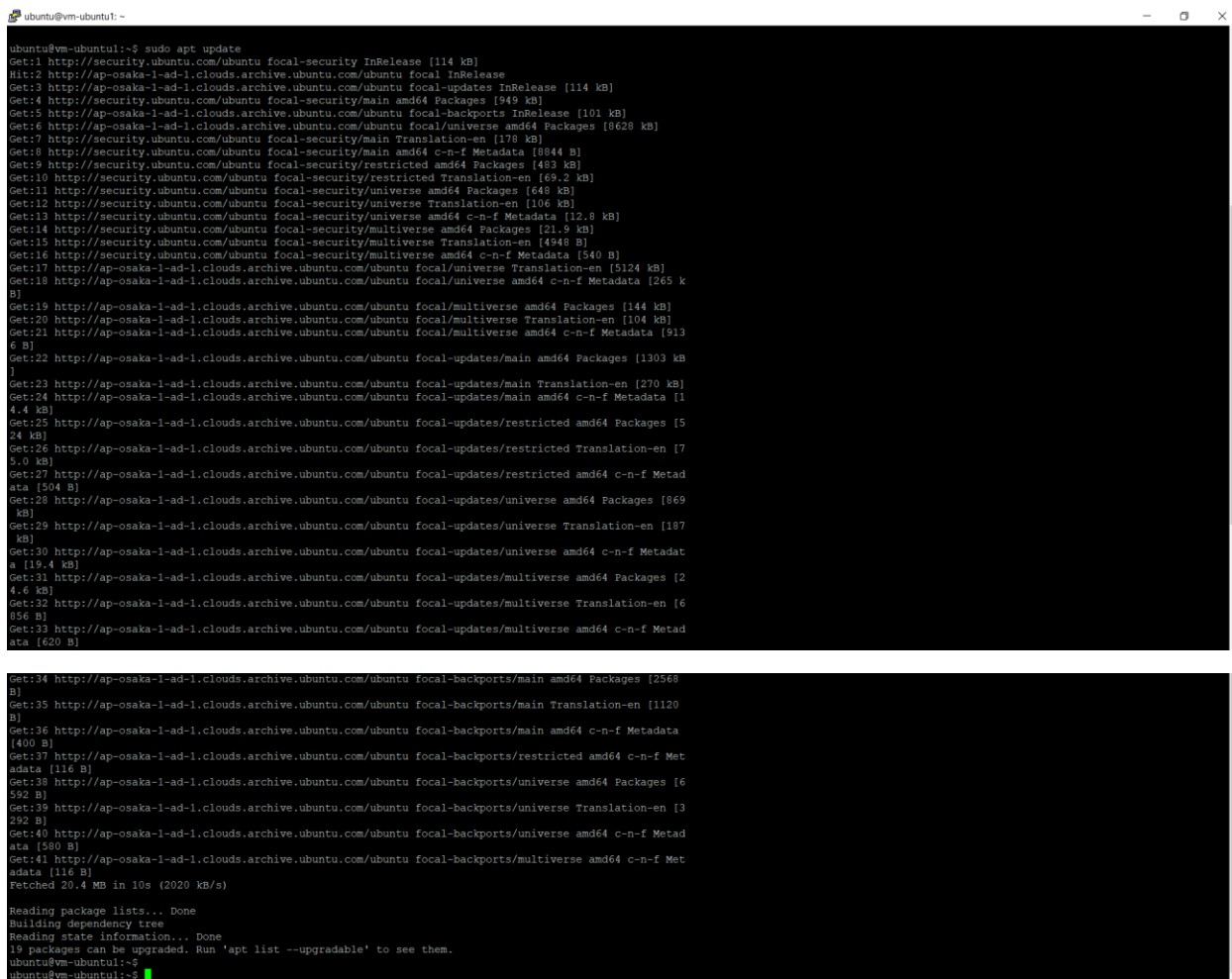
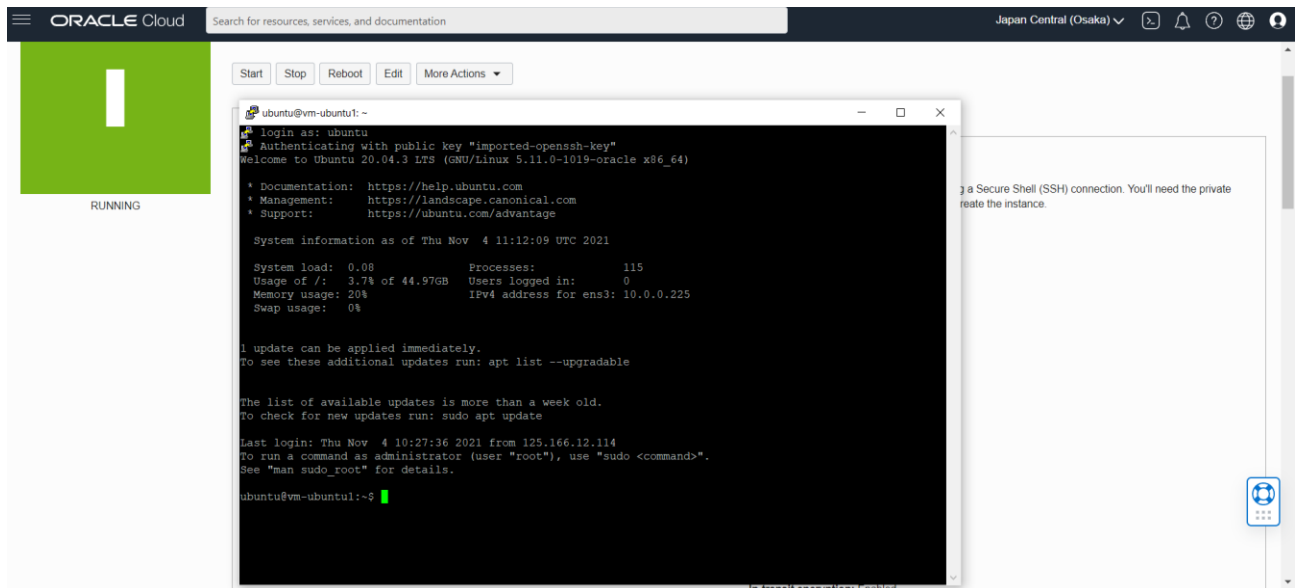
Remove

<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 >

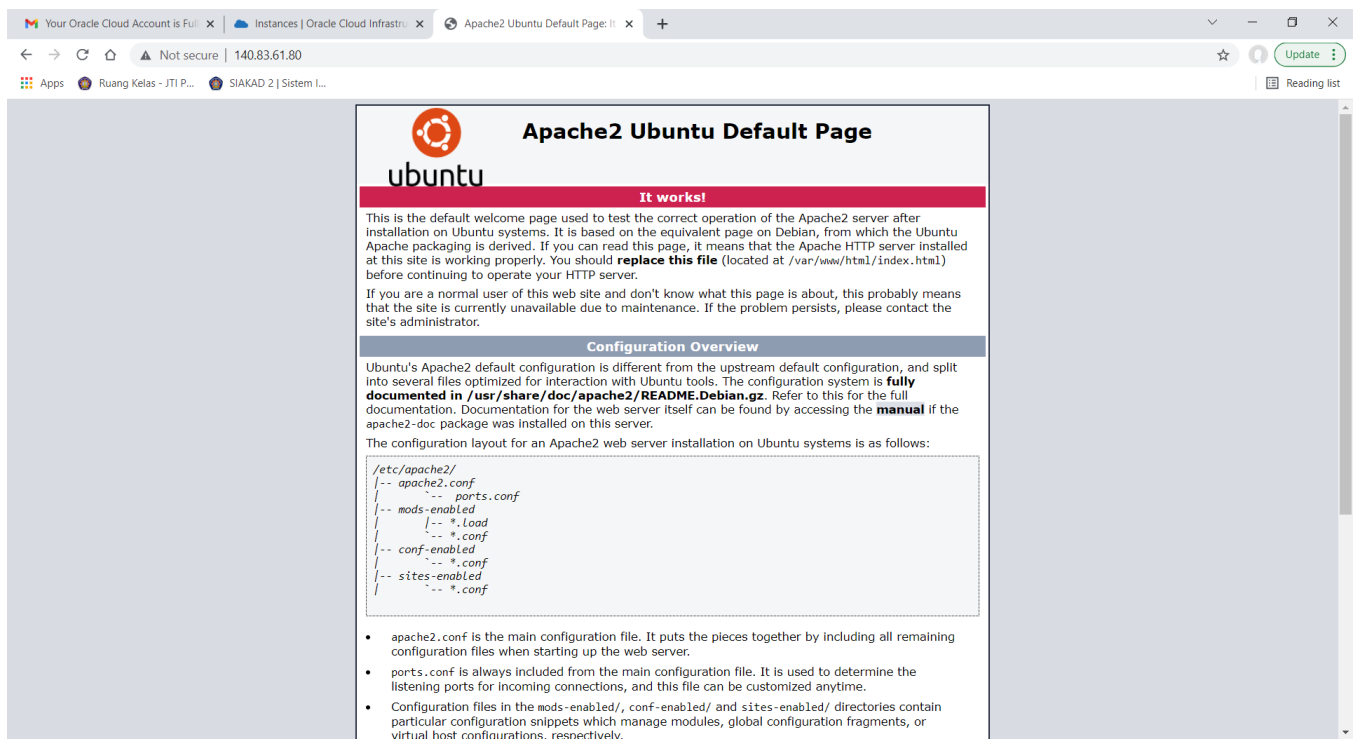
Praktikum 2 : setup Apache di VM



```
ubuntu@vm-ubuntu1:~$
ubuntu@vm-ubuntu1:~$ sudo apt -y install apache2
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following additional packages will be installed:
  apache2-bin apache2-data apache2-utils libapr1 libaprutil1 libaprutil1-dbd-sqlite3 libaprutil1-ldap
  libjansson4 liblua5.2-0 ssl-cert
Suggested packages:
  apache2-doc apache2-suexec-pristine | apache2-suexec-custom www-browser openssl-blacklist
```

```
ubuntu@vm-ubuntu1:~$ sudo systemctl restart apache2
ubuntu@vm-ubuntu1:~$
```

```
ubuntu@vm-ubuntu1:~$ sudo systemctl restart apache2
ubuntu@vm-ubuntu1:~$
```



Your Oracle Cloud Account is Full x Instances | Oracle Cloud Infrastru x Apache2 Ubuntu Default Page: 11 x +

← → ↺ ⚙ ⚠ Not secure | 140.83.61.80 ☆ ⓘ Update ⋮

Apps Ruang Kelas - JTI P... SIAKAD 2 | Sistem L... Reading list

Apache2 Ubuntu Default Page

ubuntu

It works!

This is the default welcome page used to test the correct operation of the Apache2 server after installation on Ubuntu systems. It is based on the equivalent page on Debian, from which the Ubuntu Apache packaging is derived. If you can read this page, it means that the Apache HTTP server installed at this site is working properly. You should **replace this file** (located at `/var/www/html/index.html`) before continuing to operate your HTTP server.

If you are a normal user of this web site and don't know what this page is about, this probably means that the site is currently unavailable due to maintenance. If the problem persists, please contact the site's administrator.

Configuration Overview

Ubuntu's Apache2 default configuration is different from the upstream default configuration, and split into several files optimized for interaction with Ubuntu tools. The configuration system is **fully documented in `/usr/share/doc/apache2/README.Debian.gz`**. Refer to this for the full documentation. Documentation for the web server itself can be found by accessing the **manual** if the `apache2-doc` package was installed on this server.

The configuration layout for an Apache2 web server installation on Ubuntu systems is as follows:

```
/etc/apache2/
|-- apache2.conf
|   |-- ports.conf
|-- mods-enabled
|   |-- *.load
|   |-- *.conf
|-- conf-enabled
|   |-- *.conf
|-- sites-enabled
|   |-- *.conf
```

- `apache2.conf` is the main configuration file. It puts the pieces together by including all remaining configuration files when starting up the web server.
- `ports.conf` is always included from the main configuration file. It is used to determine the listening ports for incoming connections, and this file can be customized anytime.
- Configuration files in the `mods-enabled/`, `conf-enabled/` and `sites-enabled/` directories contain particular configuration snippets which manage modules, global configuration fragments, or virtual host configurations, respectively.