

JOB SHEET 4 CLOUD VIRTUAL CLOUD NETWORK



Arranged By:

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PROGRAM STUDI D-IV TEKNIK INFORMATIKA

JURUSAN TEKNOLOGI INFORMASI

POLITEKNIK NEGERI MALANG



Practicum 1

VIRTUAL CLOUD NETWORKS

cloud.oracle.com/networking/vcns/ocid1.vcn.oc1.uk-london-1.amaaaaa43bckiaa35dxb7cqkmbocrrdd4k6w6qxtpodz4ruop6nogntv2r6a?region=u...
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Networking » Virtual Cloud Networks » Virtual Cloud Network Details

VCN AVAILABLE

vcn-20210923-2051

Move Resource Add Tags Terminate

VCN Information Tags

Compartment: x941720080 (root)
Created: Thu, Sep 23, 2021, 13:53:08 UTC
IPv4 CIDR Block: 10.0.0.0/16
IPv6 CIDR Block: No Value

OCID: ...tv2r6a Show Copy
DNS Resolver: vcn-20210923-2051
Default Route Table: Default Route Table for vcn-20210923-2051
DNS Domain Name: vcn09232053.oraclevcn.com

Resources Subnets in x941720080 (root) Compartment

Subnets (1) Create Subnet

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Edit Security (Ingress Rules)

Resources

Ingress Rules (6)
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 |
| <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 | |
| <input type="checkbox"/> | No | 0.0.0.0/0 | TCP | All | 3306 | | TCP traffic for ports: 3306 | MYSQL |
| <input type="checkbox"/> | No | 0.0.0.0/0 | TCP | All | 33060 | | TCP traffic for ports: 33060 | MYSQL |

0 Selected Showing 6 Items < 1 of 1 >

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Practicum 2

Configuration in VM

Step 1: Access into the VM or server with Termius and Add Ip + SSH KEY

```
Welcome to Ubuntu 20.04.3 LTS (GNU/Linux 5.11.0-1020-oracle x86_64)

* Documentation:  https://help.ubuntu.com
* Management:    https://landscape.canonical.com
* Support:       https://ubuntu.com/advantage

System information as of Tue Nov  2 05:44:55 UTC 2021

System load:  0.16               Processes:    123
Usage of /:   7.5% of 44.97GB    Users logged in:  0
Memory usage: 24%               IPv4 address for ens3: 10.0.0.72
Swap usage:   0%

* Super-optimized for small spaces - read how we shrank the memory
  footprint of MicroK8s to make it the smallest full K8s around.

https://ubuntu.com/blog/microk8s-memory-optimisation

28 updates can be applied immediately.
To see these additional updates run: apt list --upgradable

Last login: Tue Nov  2 05:44:57 2021 from 125.166.12.226
ubuntu@vm-ubuntu-rajendra:~$
```

Step 2: After connecting to your VM, please do the following command line by line to install Apache server.

```
sudo apt update & sudo apt -y install apache2 & sudo systemctl restart apache2
```

Step 3: Our Ubuntu VM the firewall is disabled by default, so we need to activate it by updating iptables first. Perform the following command line by line.

```
sudo iptables -I INPUT 6 -m state --state NEW -p tcp --dport 80 -j ACCEPT
sudo netfilter-persistent save
```




WEBSITE TEST

<http://140.238.87.152/>

← → ↻ ⚠ Tidak aman | http://140.238.87.152 ☆ 🔍 ⚡ ⚙ ⌵ 👤

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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
```