

KOMPUTASI AWAN

Tugas 5

Oleh:

HIDAYATULLAH IBRAHIM SYAIFUL NIM. 1941720235

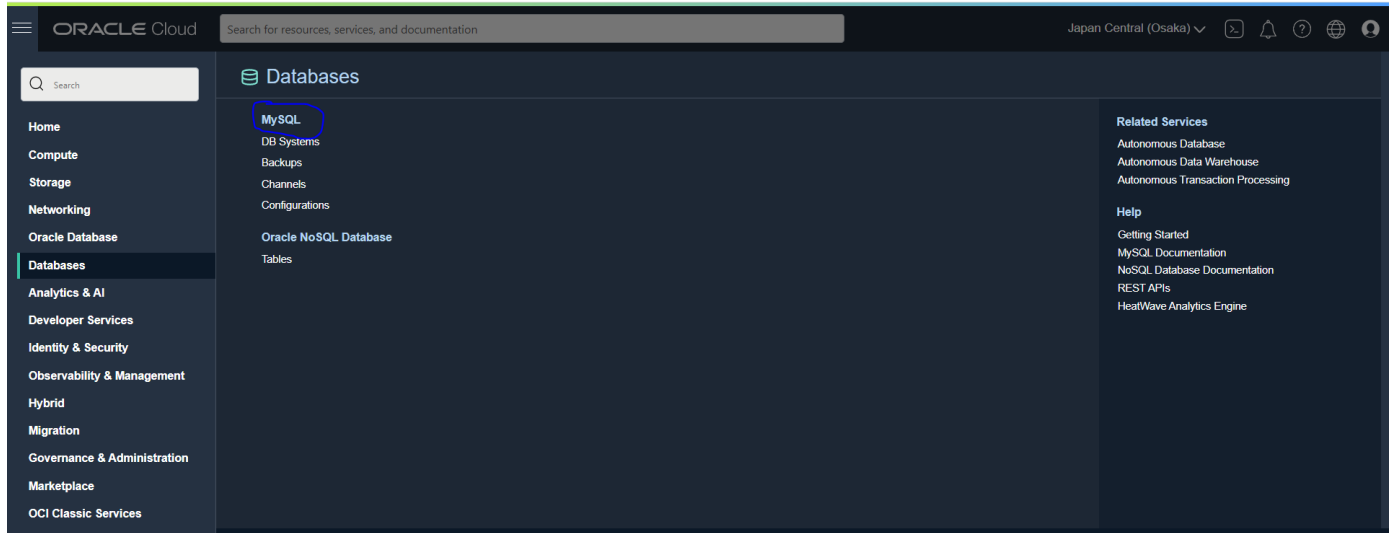


**PROGRAM STUDI TEKNIK INFORMATIKA
JURUSAN TEKNOLOGI INFORMASI
POLITEKNIK NEGERI MALANG**

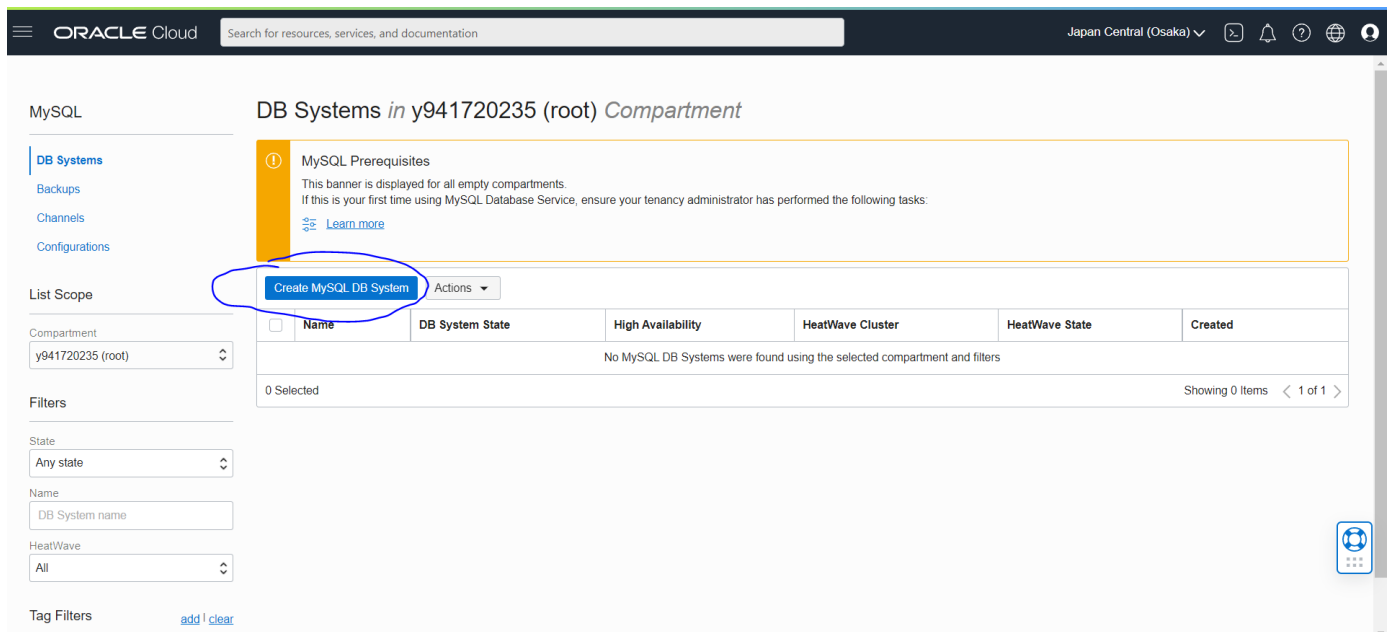
Upload code di Pass

Praktikum PaaS

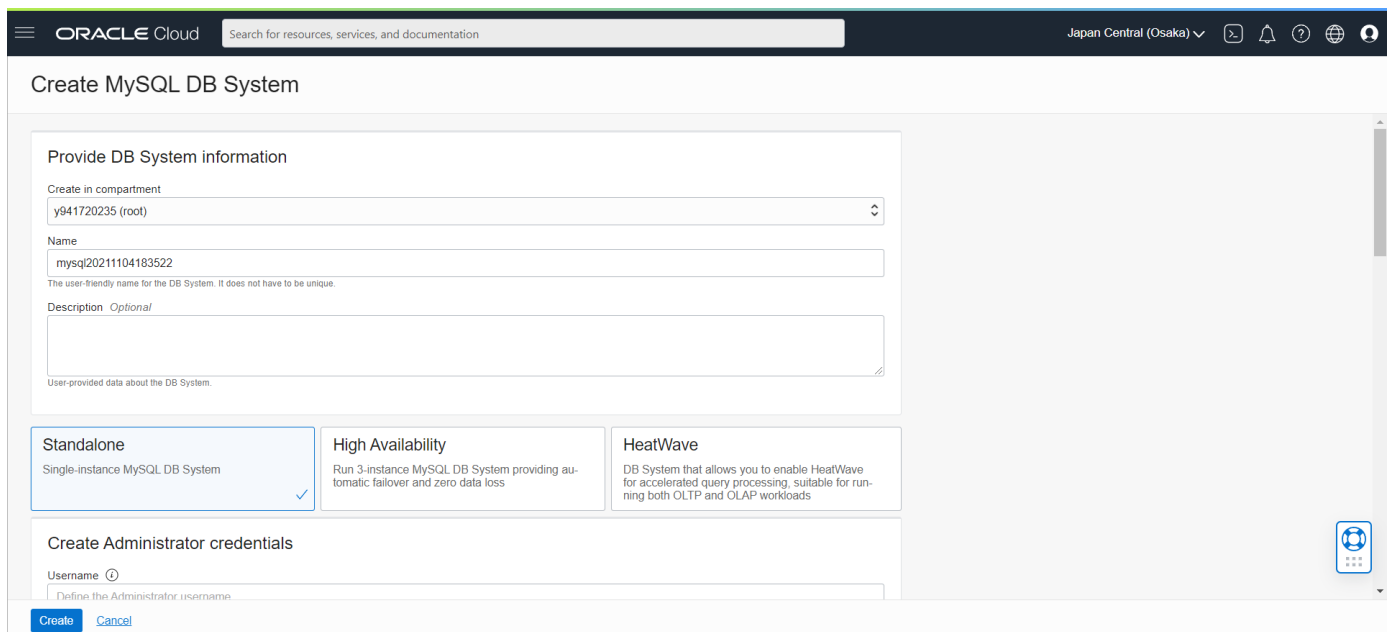
A. Memilih menu Databases MySQL pada OCI



B. Menekan Tombol Create MySQL Database



C. Mengisi Compartment dan Jenis Database



The screenshot shows the 'Create MySQL DB System' page in the Oracle Cloud console. The page is titled 'Create MySQL DB System' and has a search bar at the top. The main section is 'Provide DB System information'. It includes a dropdown for 'Create in compartment' set to 'y941720235 (root)', a text field for 'Name' set to 'mysql20211104183522', and a text area for 'Description' with the placeholder 'Optional'. Below this are three tabs: 'Standalone' (selected), 'High Availability', and 'HeatWave'. The 'Standalone' tab description is 'Single-instance MySQL DB System'. The 'High Availability' tab description is 'Run 3-instance MySQL DB System providing automatic failover and zero data loss'. The 'HeatWave' tab description is 'DB System that allows you to enable HeatWave for accelerated query processing, suitable for running both OLTP and OLAP workloads'. Below the tabs is a section 'Create Administrator credentials' with a 'Username' field set to 'admin' and a 'Password' field with a masked password. At the bottom are 'Create' and 'Cancel' buttons.

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Create MySQL DB System

Provide DB System information

Create in compartment
y941720235 (root)

Name
mysql20211104183522
The user-friendly name for the DB System. It does not have to be unique.

Description Optional
User-provided data about the DB System.

Standalone
Single-instance MySQL DB System

High Availability
Run 3-instance MySQL DB System providing automatic failover and zero data loss

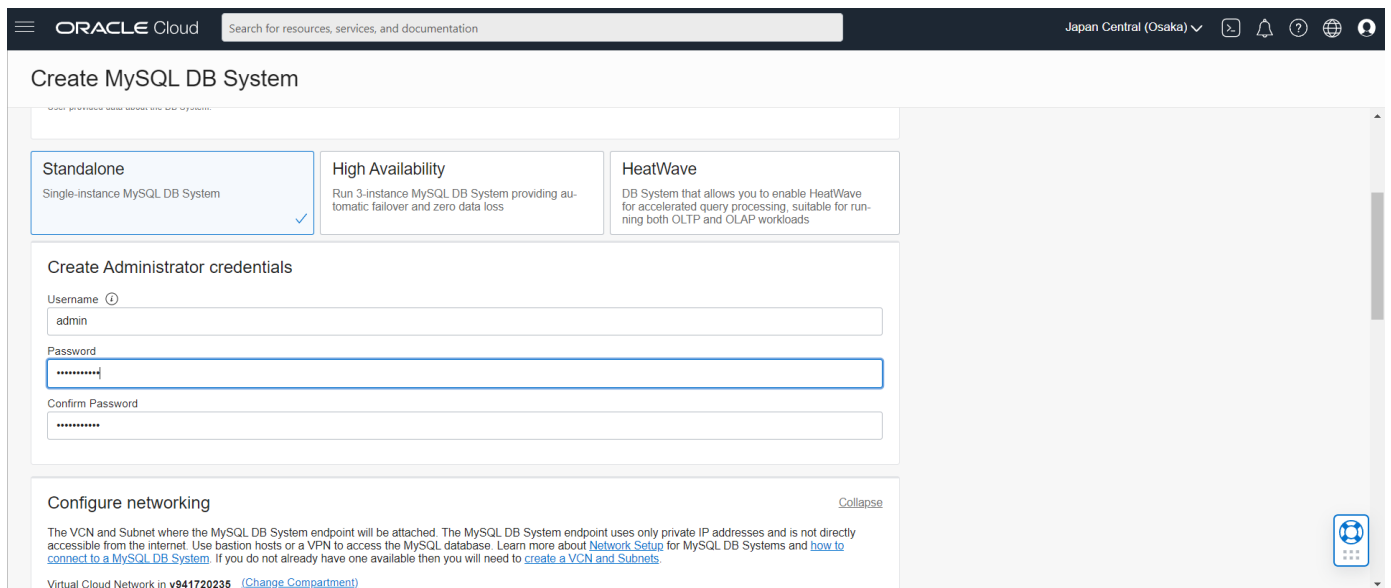
HeatWave
DB System that allows you to enable HeatWave for accelerated query processing, suitable for running both OLTP and OLAP workloads

Create Administrator credentials

Username
admin
Define the Administrator username.

Create Cancel

D. Mengisi Data Databases Administrator



The screenshot shows the 'Create MySQL DB System' page in the Oracle Cloud console, continuing from the previous step. The 'Create Administrator credentials' section is now expanded. It shows the 'Username' field set to 'admin' and the 'Password' field with a masked password. Below the password field is a 'Confirm Password' field, also with a masked password. Below this is a section 'Configure networking' with a 'Collapse' button. The 'Configure networking' section contains text about VCN and Subnet configuration and links to 'Network Setup' and 'create a VCN and Subnets'. At the bottom, it shows 'Virtual Cloud Network in y941720235 (Change Compartment)'.

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Create MySQL DB System

Provide DB System information

Create in compartment
y941720235 (root)

Name
mysql20211104183522
The user-friendly name for the DB System. It does not have to be unique.

Description Optional
User-provided data about the DB System.

Standalone
Single-instance MySQL DB System

High Availability
Run 3-instance MySQL DB System providing automatic failover and zero data loss

HeatWave
DB System that allows you to enable HeatWave for accelerated query processing, suitable for running both OLTP and OLAP workloads

Create Administrator credentials

Username
admin
Define the Administrator username.

Password

Confirm Password

Configure networking Collapse
The VCN and Subnet where the MySQL DB System endpoint will be attached. The MySQL DB System endpoint uses only private IP addresses and is not directly accessible from the internet. Use bastion hosts or a VPN to access the MySQL database. Learn more about [Network Setup](#) for MySQL DB Systems and [how to connect to a MySQL DB System](#). If you do not already have one available then you will need to [create a VCN and Subnets](#).

Virtual Cloud Network in y941720235 (Change Compartment)

E. Mengkonfigurasi VCN

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Create MySQL DB System

Confirm Password

Configure networking

Collapse

The VCN and Subnet where the MySQL DB System endpoint will be attached. The MySQL DB System endpoint uses only private IP addresses and is not directly accessible from the internet. Use bastion hosts or a VPN to access the MySQL database. Learn more about [Network Setup](#) for MySQL DB Systems and [how to connect to a MySQL DB System](#). If you do not already have one available then you will need to [create a VCN and Subnets](#).

Virtual Cloud Network in **y941720235** [\(Change Compartment\)](#)

vcn-20211104-1615

Subnet in **y941720235** [\(Change Compartment\)](#)

subnet-20211104-1615 (Regional)

Configure placement

Collapse

The [fault domain](#) in which the MySQL DB System endpoint will be physically placed. It is recommended to allow Oracle to choose the best placement for the fault domain.

Availability Domain

AD-1

lwTi:AP-OSAKA-1-AD-1

Create

Cancel

F. Mengkonfigurasi Availability Domain

Configure placement

Collapse

The [fault domain](#) in which the MySQL DB System endpoint will be physically placed. It is recommended to allow Oracle to choose the best placement for the fault domain.

Availability Domain

AD-1

lwTi:AP-OSAKA-1-AD-1

☐ Choose a Fault Domain

If you do not select a Fault Domain, Oracle will choose the best placement for you.

G. Mengkonfigurasi Shape dari Database

Configure hardware

Collapse

Select a Shape

MySQL.VM.Standard.E3.1.8GB

CPU Core Count: 1

Memory Size: 8 GB

Change Shape

The shape determines CPU cores and memory allocated to each instance in a MySQL DB System. In multi-instance DB Systems the CPU core count and memory size will be multiplied by the total number of instances.

Data Storage Size (GB)

50

The amount of storage to allocate to the MySQL DB System for all data and log files.

H. Mengkonfigurasi Backup dari Database dan Menekan Tombok Create Database

Configure Backup Plan

☒ Enable Automatic Backups

Enables automatic backups. You must also specify a retention period, and select a backup window.

Backup retention period *Optional*

The Retention Period defines how long to store the backups, in days. ⓘ

☐ Select Backup Window

The backup window start time defines the start of the time period during which your DB System is backed up. [Show More](#)

[Show Advanced Options](#)


CreateCancel

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MySQL » MySQL DB Systems » MySQL DB System Details



CREATING

mysql20211104183522

EditStartStopRestartMore Actions

MySQL DB System InformationTags

General Information

OCID: o6lhlucha [Show](#) [Copy](#)

Description: -

Compartment: [y941720235](#)

Created: Thu, Nov 4, 2021, 11:47:48 UTC

DB System Configuration

Shape: MySQL VM Standard E3.1.8GB ⓘ

OCPU Count: 1

Memory: 8 GB

Storage Size: 50 GB

MySQL Version: 8.0.27

Configuration: [MySQL VM Standard E3.1.8GB Standalone](#)

Backup

HeatWave

HeatWave Cluster: Disabled

High Availability

High Availability: Disabled

Networking

Virtual Cloud Network: [vcn-20211104-1615](#)

Subnet: [subnet-20211104-1615](#)

Subnet Type: Regional

Endpoint

Connect to the MySQL DB System using the endpoint below and a MySQL client application. [Learn more](#)

Private IP Address: - ⓘ

Internal FQDN: -


Availability Domain: [ad-1](#)

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MySQL » MySQL DB Systems » MySQL DB System Details



ACTIVE

mysql20211104183522

EditStartStopRestartMore Actions

MySQL DB System InformationTags

General Information

OCID: o6lhlucha [Show](#) [Copy](#)

Description: -

Compartment: [y941720235](#)

Created: Thu, Nov 4, 2021, 11:47:48 UTC

DB System Configuration

Shape: MySQL VM Standard E3.1.8GB ⓘ

OCPU Count: 1

Memory: 8 GB

Storage Size: 50 GB

MySQL Version: 8.0.27-cloud

Configuration: [MySQL VM Standard E3.1.8GB Standalone](#)

Backup

HeatWave

HeatWave Cluster: Disabled

High Availability

High Availability: Disabled

Networking

Virtual Cloud Network: [vcn-20211104-1615](#)

Subnet: [subnet-20211104-1615](#)

Subnet Type: Regional

Endpoint

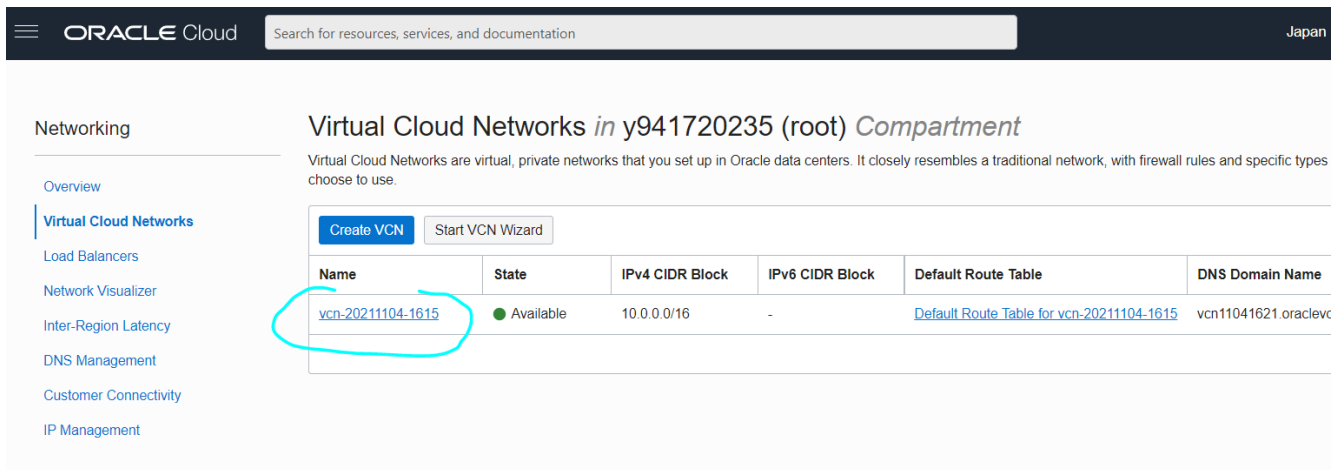
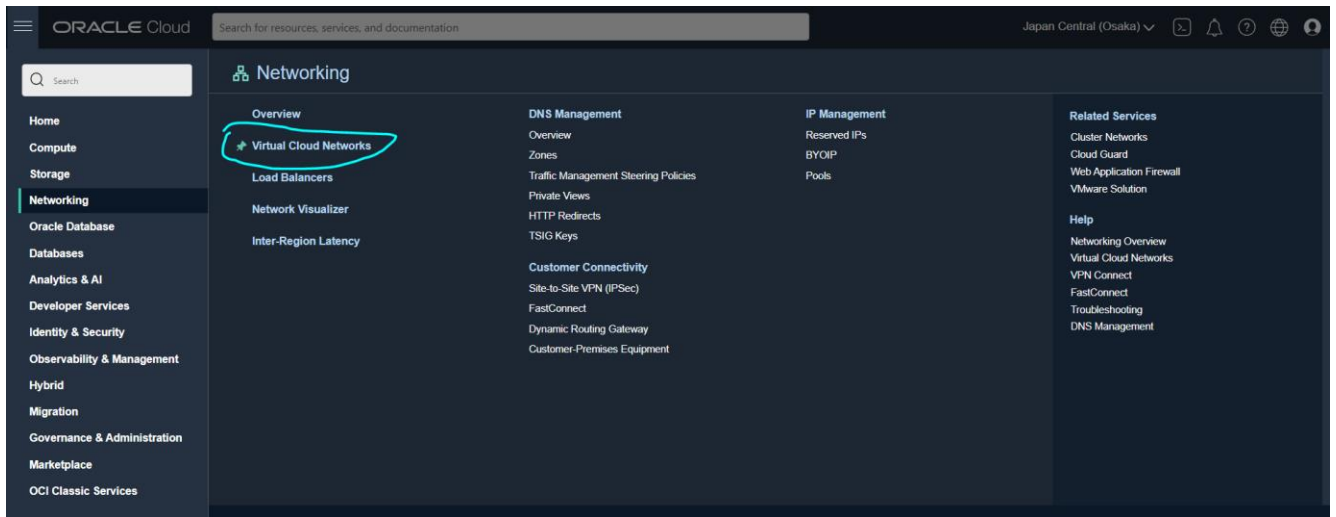
Connect to the MySQL DB System using the endpoint below and a MySQL client application. [Learn more](#)

Private IP Address: 10.0.0.126 [Copy](#) ⓘ

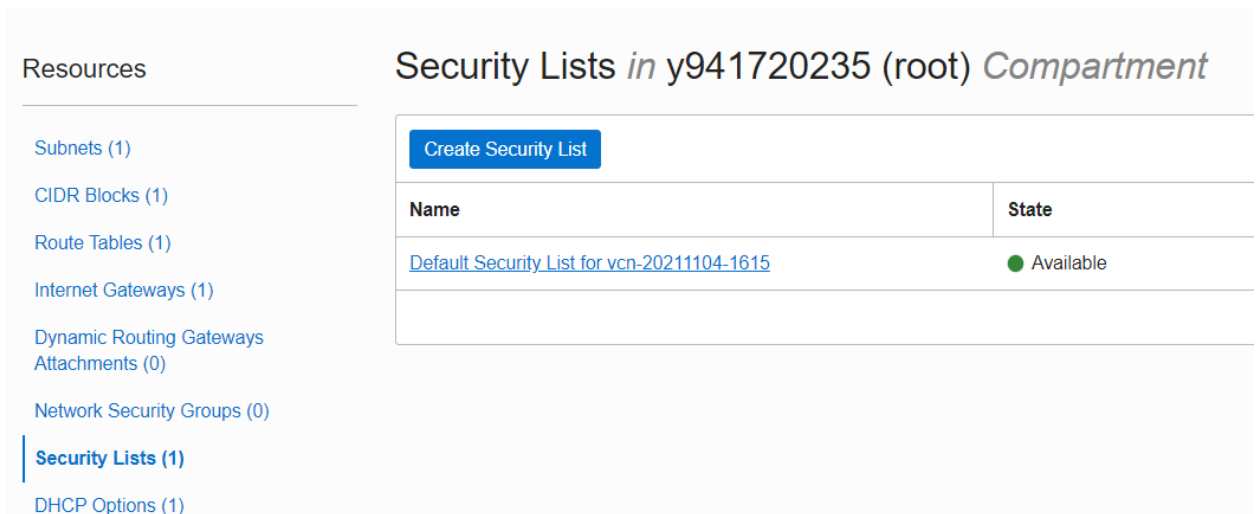
Internal FQDN: -

Mengkonfigurasi Virtual Cloud Networks (VCN)

A. Memilih menu VCN pada Networking



B. Memilih menu Security List



C. Menambah Rules pada Security List

Resources

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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Security List Information Tags

OCID: ... Created: Thu, ...

Resources

Ingress Rules (4) Egress Rules (1)

AVAILABLE

ADD

Security List Information

OCID: ... Created: Thu, ...

Ingress Rules

[Add Ingress Rules](#) [Edit](#) [Remove](#)

Add Ingress Rules

Ingress Rule 1

Allows TCP traffic: 3306,33060

☐ Stateless

Source Type: CIDR

Source CIDR: 0.0.0.0/0

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

IP Protocol: TCP

Source Port Range: Optional All

Examples: 80, 20-22

Destination Port Range: Optional 3306,33060

Examples: 80, 20-22

Description: Optional

Maximum 255 characters

[+ Another Ingress Rule](#)

[Add Ingress Rules](#) [Cancel](#)

Resources

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	
<input type="checkbox"/>	No	0.0.0.0/0	TCP	All	3306		TCP traffic for ports: 3306	
<input type="checkbox"/>	No	0.0.0.0/0	TCP	All	33060		TCP traffic for ports: 33060	

0 Selected Showing 6 Items < 1 of 1 >

Mengakses MySQL dari Melalui SSH

- A. Cara untuk mengakses instances yang dimiliki melalui ssh adalah dengan mengetik perintah

Disini saya mengakses menggunakan ubuntu

```
ubuntu@vm-ubuntu1: ~  
* Authenticating with public key "imported-openssh-key"  
Welcome to Ubuntu 20.04.3 LTS (GNU/Linux 5.11.0-1019-oracle x86_64)  
  
* Documentation:  https://help.ubuntu.com  
* Management:    https://landscape.canonical.com  
* Support:       https://ubuntu.com/advantage  
  
System information as of Thu Nov  4 14:24:51 UTC 2021  
  
System load:  0.0          Processes:            124  
Usage of /:   4.5% of 44.97GB Users logged in:         0  
Memory usage: 22%         IPv4 address for ens3: 10.0.0.225  
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  
  
21 updates can be applied immediately.  
15 of these updates are standard security updates.  
To see these additional updates run: apt list --upgradable  
  
Last login: Thu Nov  4 11:12:11 2021 from 125.166.12.114  
ubuntu@vm-ubuntu1:~$
```

- B. Mengakses MySQL

```
ubuntu@vm-ubuntu1:~$ mysql  
  
Command 'mysql' not found, but can be installed with:  
  
sudo apt install mysql-client-core-8.0      # version 8.0.27-0ubuntu0.20.04.1, or  
sudo apt install mariadb-client-core-10.3   # version 1:10.3.31-0ubuntu0.20.04.1  
  
ubuntu@vm-ubuntu1:~$
```

Gambar diatas Mysql belum diinstal

Berikut install MySQL

```
ubuntu@vm-ubuntu1: ~  
sudo apt install mysql-client-core-8.0      # version 8.0.27-0ubuntu0.20.04.1, or  
sudo apt install mariadb-client-core-10.3   # version 1:10.3.31-0ubuntu0.20.04.1  
  
ubuntu@vm-ubuntu1:~$ sudo apt install mysql-client-core-8.0 ✓  
Reading package lists... Done  
Building dependency tree  
Reading state information... Done  
The following NEW packages will be installed:  
  mysql-client-core-8.0  
0 upgraded, 1 newly installed, 0 to remove and 19 not upgraded.  
Need to get 4423 kB of archives.  
After this operation, 66.7 MB of additional disk space will be used.  
Get:1 http://ap-osaka-1-ad-1.clouds.archive.ubuntu.com/ubuntu focal-updates/main  
amd64 mysql-client-core-8.0 amd64 8.0.27-0ubuntu0.20.04.1 [4423 kB]  
Fetched 4423 kB in 2s (2292 kB/s)  
Selecting previously unselected package mysql-client-core-8.0.  
(Reading database ... 70844 files and directories currently installed.)  
Preparing to unpack .../mysql-client-core-8.0_8.0.27-0ubuntu0.20.04.1_amd64.deb .  
..  
Unpacking mysql-client-core-8.0 (8.0.27-0ubuntu0.20.04.1) ...  
Setting up mysql-client-core-8.0 (8.0.27-0ubuntu0.20.04.1) ...  
Processing triggers for man-db (2.9.1-1) ...  
ubuntu@vm-ubuntu1:~$
```

Untuk mengkoneksikan mysql dengan perintah berikut `mysql -u -p -h <ip private mysql oci/hostname>`. Setelah ini database sudah siap untuk digunakan sesuai dengan kebutuhan anda.

```
ubuntu@vm-ubuntu1:~$ mysql -u admin -p -h 10.0.0.126  
Enter password:  
Welcome to the MySQL monitor.  Commands end with ; or \g.  
Your MySQL connection id is 51  
Server version: 8.0.27-cloud MySQL Enterprise - Cloud  
  
Copyright (c) 2000, 2021, Oracle and/or its affiliates.  
  
Oracle is a registered trademark of Oracle Corporation and/or its  
affiliates. Other names may be trademarks of their respective  
owners.  
  
Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.  
mysql>
```

Install Wordpress Pada PaaS

A. Membuat Database

```
mysql> create database wordpress;
Query OK, 1 row affected (0.00 sec)

mysql> show databases;
+-----+
| Database |
+-----+
| information_schema |
| mysql |
| performance_schema |
| sys |
| wordpress |
+-----+
5 rows in set (0.00 sec)

mysql> grant all privileges on wordpress.* to admin;
Query OK, 0 rows affected (0.00 sec)

mysql>
```

B. Download Wordpress Pada Folder /var/www/html dengan perintah.

- `wget https://wordpress.org/latest.tar.gz;`

```
ubuntu@vm-ubuntu1:~$ cd /var/www/html
ubuntu@vm-ubuntu1:/var/www/html$ sudo wget https://wordpress.org/latest.tar.gz;
--2021-11-04 15:34:18-- https://wordpress.org/latest.tar.gz
Resolving wordpress.org (wordpress.org)... 198.143.164.252
Connecting to wordpress.org (wordpress.org)|198.143.164.252|:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 15087630 (14M) [application/octet-stream]
Saving to: 'latest.tar.gz'

latest.tar.gz      100%[=====>] 14.39M  1.71MB/s   in 63s

2021-11-04 15:35:22 (233 KB/s) - 'latest.tar.gz' saved [15087630/15087630]

ubuntu@vm-ubuntu1:/var/www/html$
```

C. Mengetrak Wordpress Pada Folder /var/www/html dengan perintah :

- sudo tar xzvf latest.tar.gz

```
ubuntu@vm-ubuntu1: /var/www/html
wordpress/wp-admin/js/custom-background.js
wordpress/wp-admin/js/color-picker.min.js
wordpress/wp-admin/js/auth-app.js
wordpress/wp-admin/js/code-editor.js
wordpress/wp-admin/js/common.js
wordpress/wp-admin/js/set-post-thumbnail.min.js
wordpress/wp-admin/js/postbox.min.js
wordpress/wp-admin/js/color-picker.js
wordpress/wp-admin/js/password-strength-meter.js
wordpress/wp-admin/js/customize-nav-menus.js
wordpress/wp-admin/js/editor-expand.js
wordpress/wp-admin/js/code-editor.min.js
wordpress/wp-admin/js/set-post-thumbnail.js
wordpress/wp-admin/options-permalink.php
wordpress/wp-admin/widgets.php
wordpress/wp-admin/setup-config.php
wordpress/wp-admin/install.php
wordpress/wp-admin/admin-header.php
wordpress/wp-admin/post-new.php
wordpress/wp-admin/themes.php
wordpress/wp-admin/options-reading.php
wordpress/wp-trackback.php
wordpress/wp-comments-post.php
ubuntu@vm-ubuntu1: /var/www/html$
```

- sudo rm rf latest.tar.gz

```
ubuntu@vm-ubuntu1: /var/www/html$ sudo rm latest.tar.gz
ubuntu@vm-ubuntu1: /var/www/html$
```

D. Selanjutnya menginstall extension mysql

Install dan mengaktifkannya pada php.ini. Berikut adalah perintah untuk menginstall extension mysql pada php.

- sudo apt-get install php-mysql

```
ubuntu@vm-ubuntu1: ~
ubuntu@vm-ubuntu1:~$ sudo apt install php7.4
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following additional packages will be installed:
  libapache2-mod-php7.4 php-common php7.4-cli php7.4-common php7.4-json
  php7.4-opcache php7.4-readline
Suggested packages:
  php-pear
The following NEW packages will be installed:
  libapache2-mod-php7.4 php-common php7.4 php7.4-cli php7.4-common php7.4-json
  php7.4-opcache php7.4-readline
0 upgraded, 8 newly installed, 0 to remove and 19 not upgraded.
Need to get 4016 kB of archives.
After this operation, 18.0 MB of additional disk space will be used.
Do you want to continue? [Y/n] Y
Get:1 http://ap-osaka-1-ad-1.clouds.archive.ubuntu.com/ubuntu focal/main amd64 p
hp-common all 2:75 [11.9 kB]
Get:2 http://ap-osaka-1-ad-1.clouds.archive.ubuntu.com/ubuntu focal-updates/main
amd64 php7.4-common amd64 7.4.3-4ubuntu2.7 [980 kB]
Get:3 http://ap-osaka-1-ad-1.clouds.archive.ubuntu.com/ubuntu focal-updates/main
amd64 php7.4-json amd64 7.4.3-4ubuntu2.7 [19.2 kB]
Get:4 http://ap-osaka-1-ad-1.clouds.archive.ubuntu.com/ubuntu focal-updates/main
amd64 php7.4-opcache amd64 7.4.3-4ubuntu2.7 [198 kB]
Get:5 http://ap-osaka-1-ad-1.clouds.archive.ubuntu.com/ubuntu focal-updates/main
amd64 php7.4-readline amd64 7.4.3-4ubuntu2.7 [12.6 kB]
Get:6 http://ap-osaka-1-ad-1.clouds.archive.ubuntu.com/ubuntu focal-updates/main
amd64 php7.4-cli amd64 7.4.3-4ubuntu2.7 [1421 kB]
Get:7 http://ap-osaka-1-ad-1.clouds.archive.ubuntu.com/ubuntu focal-updates/main
amd64 libapache2-mod-php7.4 amd64 7.4.3-4ubuntu2.7 [1364 kB]
Get:8 http://ap-osaka-1-ad-1.clouds.archive.ubuntu.com/ubuntu focal-updates/main
amd64 php7.4 all 7.4.3-4ubuntu2.7 [9248 B]
Fetched 4016 kB in 3s (1561 kB/s)
Selecting previously unselected package php-common.
(Reading database ... 70871 files and directories currently installed.)
Preparing to unpack .../0-php-common_2%3a75_all.deb ...
Unpacking php-common (2:75) ...
Selecting previously unselected package php7.4-common.
Preparing to unpack .../1-php7.4-common_7.4.3-4ubuntu2.7_amd64.deb ...
Unpacking php7.4-common (7.4.3-4ubuntu2.7) ...
Selecting previously unselected package php7.4-json.
Preparing to unpack .../2-php7.4-json_7.4.3-4ubuntu2.7_amd64.deb ...
Unpacking php7.4-json (7.4.3-4ubuntu2.7) ...
Selecting previously unselected package php7.4-opcache.
Preparing to unpack .../3-php7.4-opcache_7.4.3-4ubuntu2.7_amd64.deb ...
Unpacking php7.4-opcache (7.4.3-4ubuntu2.7) ...
Selecting previously unselected package php7.4-readline.
Preparing to unpack .../4-php7.4-readline_7.4.3-4ubuntu2.7_amd64.deb ...
Unpacking php7.4-readline (7.4.3-4ubuntu2.7) ...
Selecting previously unselected package php7.4-cli.
Preparing to unpack .../5-php7.4-cli_7.4.3-4ubuntu2.7_amd64.deb ...
Unpacking php7.4-cli (7.4.3-4ubuntu2.7) ...
Setting up php-common (2:75) ...
Setting up php7.4-common (7.4.3-4ubuntu2.7) ...
Setting up php7.4-json (7.4.3-4ubuntu2.7) ...
Setting up php7.4-opcache (7.4.3-4ubuntu2.7) ...
Setting up php7.4-readline (7.4.3-4ubuntu2.7) ...
Setting up php7.4-cli (7.4.3-4ubuntu2.7) ...
Setting up libapache2-mod-php7.4 (7.4.3-4ubuntu2.7) ...
Processing triggers for php7.4-common (7.4.3-4ubuntu2.7) ...
Processing triggers for libapache2-mod-php7.4 (7.4.3-4ubuntu2.7) ...
```

```
ubuntu@vm-ubuntu1: ~  
ubuntu@vm-ubuntu1:~$ sudo apt-get install php-mysql  
Reading package lists... Done  
Building dependency tree  
Reading state information... Done  
The following additional packages will be installed:  
  php7.4-mysql  
The following NEW packages will be installed:  
  php-mysql php7.4-mysql  
0 upgraded, 2 newly installed, 0 to remove and 19 not upgraded.  
Need to get 123 kB of archives.  
After this operation, 487 kB of additional disk space will be used.  
Do you want to continue? [Y/n] Y  
Get:1 http://ap-osaka-1-ad-1.clouds.archive.ubuntu.com/ubuntu focal-updates/main amd64 php7.4-mysql amd64 7.4.3-4ubuntu2.7 [121 kB]  
Get:2 http://ap-osaka-1-ad-1.clouds.archive.ubuntu.com/ubuntu focal/main amd64 php-mysql all 2:7.4+75 [2000 B]  
Fetched 123 kB in 1s (90.4 kB/s)  
Selecting previously unselected package php7.4-mysql.  
(Reading database ... 71007 files and directories currently installed.)  
Preparing to unpack .../php7.4-mysql_7.4.3-4ubuntu2.7_amd64.deb ...  
Unpacking php7.4-mysql (7.4.3-4ubuntu2.7) ...  
Selecting previously unselected package php-mysql.  
Preparing to unpack .../php-mysql_2%3a7.4+75_all.deb ...  
Unpacking php-mysql (2:7.4+75) ...  
Setting up php7.4-mysql (7.4.3-4ubuntu2.7) ...  
  
Creating config file /etc/php/7.4/mods-available/mysqlnd.ini with new version  
  
Creating config file /etc/php/7.4/mods-available/mysqli.ini with new version  
  
Creating config file /etc/php/7.4/mods-available/pdo_mysql.ini with new version  
Setting up php-mysql (2:7.4+75) ...  
Processing triggers for libapache2-mod-php7.4 (7.4.3-4ubuntu2.7) ...  
Processing triggers for php7.4-cli (7.4.3-4ubuntu2.7) ...  
ubuntu@vm-ubuntu1:~$
```

- sudo service apache2 restart
- sudo chown www-data:www-data -R *

```
ubuntu@vm-ubuntu1:~$ cd /etc/php/7.4/apache2  
ubuntu@vm-ubuntu1:/etc/php/7.4/apache2$ sudo service apache2 restart  
ubuntu@vm-ubuntu1:/etc/php/7.4/apache2$ sudo chown www-data:www-data -R *  
ubuntu@vm-ubuntu1:/etc/php/7.4/apache2$
```

E. Selanjutnya Proses Instalasi Wordpress Melalui Browser

Welcome to WordPress. Before getting started, we need some information on the database. You will need to know the following items before proceeding.

1. Database name
2. Database username
3. Database password
4. Database host
5. Table prefix (if you want to run more than one WordPress in a single database)

We're going to use this information to create a `wp-config.php` file. **If for any reason this automatic file creation doesn't work, don't worry. All this does is fill in the database information to a configuration file. You may also simply open `wp-config-sample.php` in a text editor, fill in your information, and save it as `wp-config.php`.** Need more help? [We got it.](#)

In all likelihood, these items were supplied to you by your Web Host. If you don't have this information, then you will need to contact them before you can continue. If you're all ready...

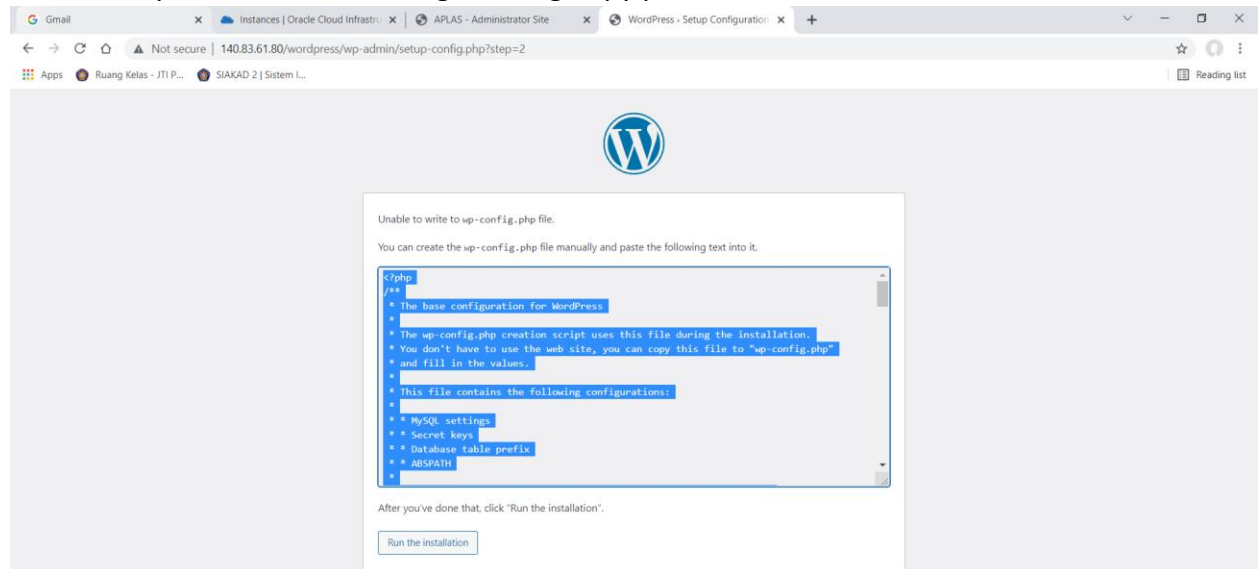
[Let's go!](#)

Below you should enter your database connection details. If you're not sure about these, contact your host.

Database Name	<input type="text" value="wordpress"/>	The name of the database you want to use with WordPress.
Username	<input type="text" value="admin"/>	Your database username.
Password	<input type="password" value="@2001bRaHi"/>	Your database password.
Database Host	<input type="text" value="10.0.0.126"/>	You should be able to get this info from your web host, if localhost doesn't work.
Table Prefix	<input type="text" value="wp_"/>	If you want to run multiple WordPress installations in a single database, change this.

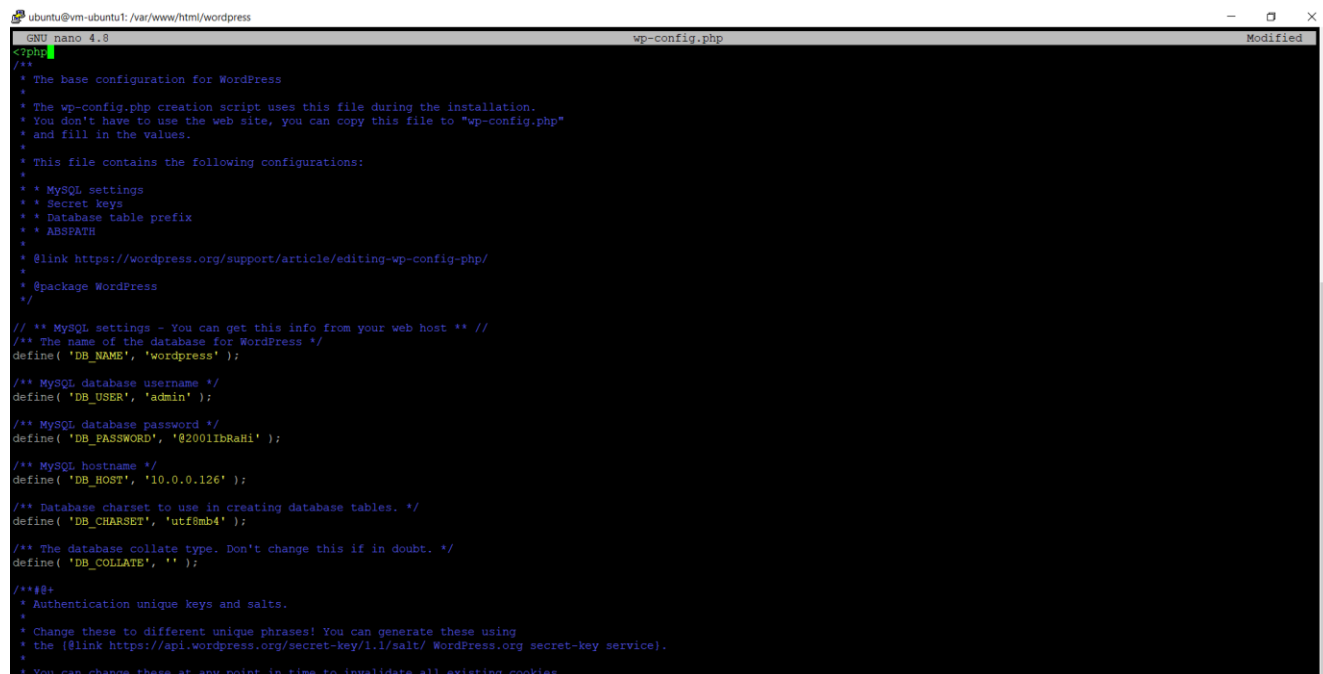
[Submit](#)

Disini saya tidak bisa membuat file wp-config secara otomatis, maka saya harus membuatnya secara manual dengan meng-copy paste isi teks berikut.



Kita perlu mengeditnya dengan perintah sudo nano wp-config.php

```
ubuntu@vm-ubuntu1:~$ cd /var/www/html/wordpress
ubuntu@vm-ubuntu1:/var/www/html/wordpress$ sudo nano wp-config.php
```



Kotak Masuk (1) - 1941720235@... x Home | Oracle Cloud Infrastruct... x APLAS - Administrator Site x WordPress - Installation x +

Not secure | 140.83.61.80/wordpress/wp-admin/install.php

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

Welcome

Welcome to the famous five-minute WordPress installation process! Just fill in the information below and you'll be on your way to using the most extendable and powerful personal publishing platform in the world.

Information needed

Please provide the following information. Don't worry, you can always change these settings later.

Site Title

Username
Usernames can have only alphanumeric characters, spaces, underscores, hyphens, periods, and the @ symbol.

Password
Strong [Hide](#)
Important: You will need this password to log in. Please store it in a secure location.

Your Email
Double-check your email address before continuing.

Search engine visibility ☐ Discourage search engines from indexing this site
It is up to search engines to honor this request.

[Install WordPress](#)

Pengisian Data Sukses Dilakukan

Kotak Masuk (1) - 1941720235@... x Home | Oracle Cloud Infrastruct... x APLAS - Administrator Site x WordPress - Installation x +

Not secure | 140.83.61.80/wordpress/wp-admin/install.php?step=2

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

Success!

WordPress has been installed. Thank you, and enjoy!

Username admin

Password Your chosen password.

[Log in](#)

Not secure | 140.83.61.80/wordpress/

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

Praktikum Sistem Terdistribusi Customize 1 0 + New Howdy, admin

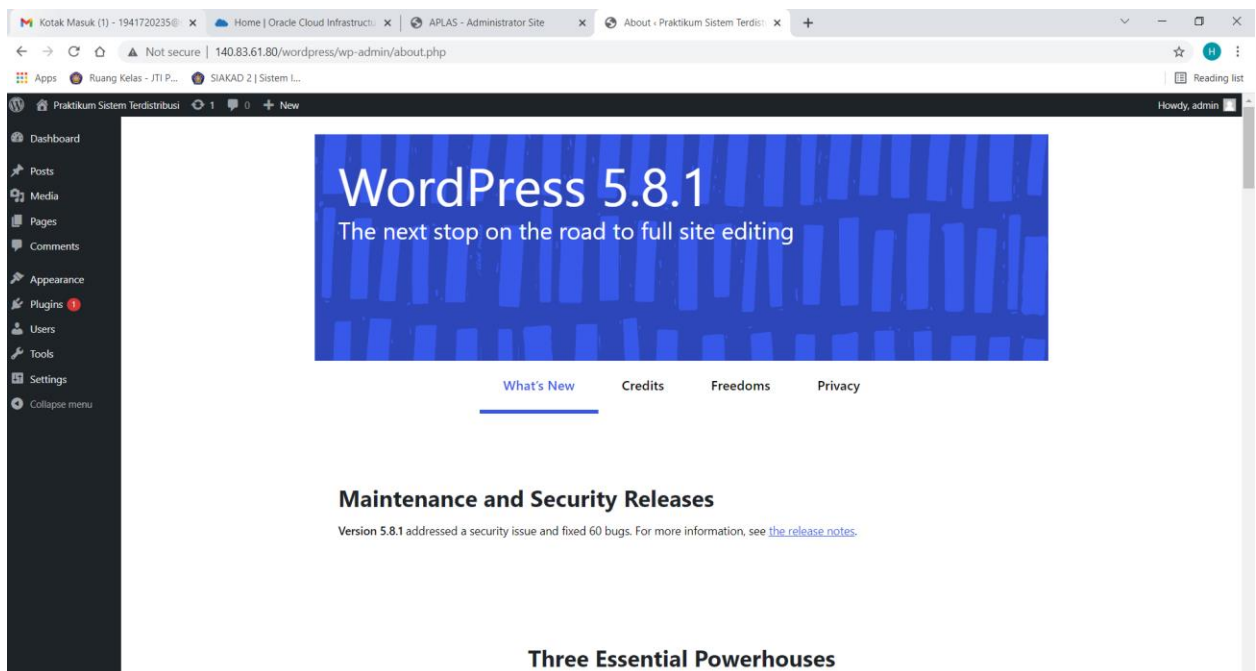
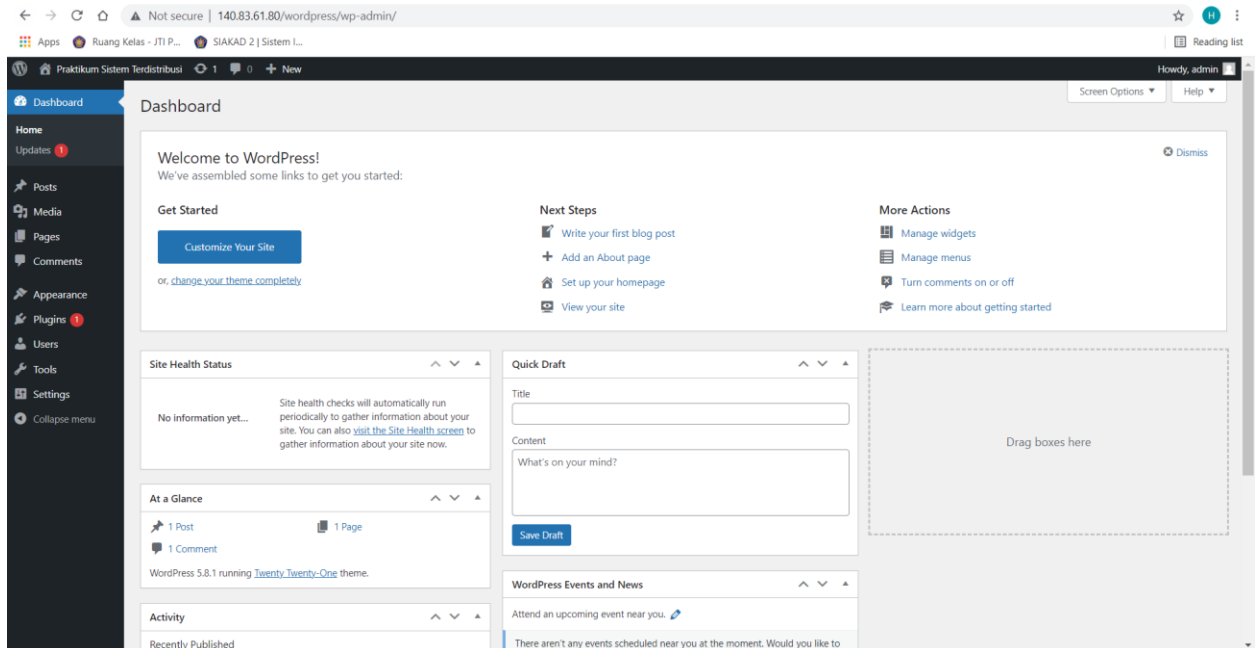
PRAKTIKUM SISTEM TERDISTRIBUSI

Just another WordPress site

Hello world!

Welcome to WordPress. This is your first post. Edit or delete it, then start writing!

Published November 4, 2021 [Edit](#)
Categorized as [Uncategorized](#)



Tugas Praktikum PaaS

Cari aplikasi php yang memiliki database kemudian upload ke server dan buat databasenya. Disini saya menggunakan aplikasi web berbasis PHP, yaitu CRUD pendaftaran siswa baru

1. Mengakses instance dengan SSH

```
ubuntu@vm-ubuntu1: ~  
* Documentation:  https://help.ubuntu.com  
* Management:    https://landscape.canonical.com  
* Support:        https://ubuntu.com/advantage  
  
System information as of Thu Nov  4 18:05:45 UTC 2021  
  
System load:  0.0                Processes:            130  
Usage of /:   4.8% of 44.97GB    Users logged in:     0  
Memory usage: 27%               IPv4 address for ens3: 10.0.0.225  
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  
  
21 updates can be applied immediately.  
15 of these updates are standard security updates.  
To see these additional updates run: apt list --upgradable  
  
Last login: Thu Nov  4 17:48:36 2021 from 125.166.12.114  
ubuntu@vm-ubuntu1:~$
```

2. Mengakses MySQL dan mengkoneksikan database

```
ubuntu@vm-ubuntu1:~$ mysql -u admin -p -h 10.0.0.126  
Enter password:  
Welcome to the MySQL monitor.  Commands end with ; or \g.  
Your MySQL connection id is 112  
Server version: 8.0.27-cloud MySQL Enterprise - Cloud  
  
Copyright (c) 2000, 2021, Oracle and/or its affiliates.  
  
Oracle is a registered trademark of Oracle Corporation and/or its  
affiliates. Other names may be trademarks of their respective  
owners.  
  
Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.  
mysql>
```

3. Membuat database pendaftaransiswa lalu mengecek apakah database berhasil dibuat, dan memberikan privileges database kepada user.

```
mysql> create database pendaftaransiswa;
Query OK, 1 row affected (0.01 sec)

mysql> show databases;
+-----+
| Database |
+-----+
| information_schema |
| mysql |
| pendaftaransiswa |
| performance_schema |
| sys |
| wordpress |
+-----+
6 rows in set (0.00 sec)

mysql> grant all privileges on pendaftaransiswa.* to admin;
Query OK, 0 rows affected (0.01 sec)

mysql>
```

4. Keluar dari mysql dan masuk ke direktori /var/www/html untuk mendapatkan aplikasi php pendaftaransiswa dari repositori

```
ubuntu@vm-ubuntu1:~$ cd /var/www/html
ubuntu@vm-ubuntu1:/var/www/html$ sudo git clone https://github.com/petaniicode/tutorial-php-mysql.git
Cloning into 'tutorial-php-mysql'...
remote: Enumerating objects: 16, done.
remote: Total 16 (delta 0), reused 0 (delta 0), pack-reused 16
Unpacking objects: 100% (16/16), 4.60 KiB | 1.53 MiB/s, done.
ubuntu@vm-ubuntu1:/var/www/html$
```

- Mengecek folder hasil cloning dari repository

```
ubuntu@vm-ubuntu1:/var/www/html$ ls
index.html  tutorial-php-mysql  wordpress
ubuntu@vm-ubuntu1:/var/www/html$
```

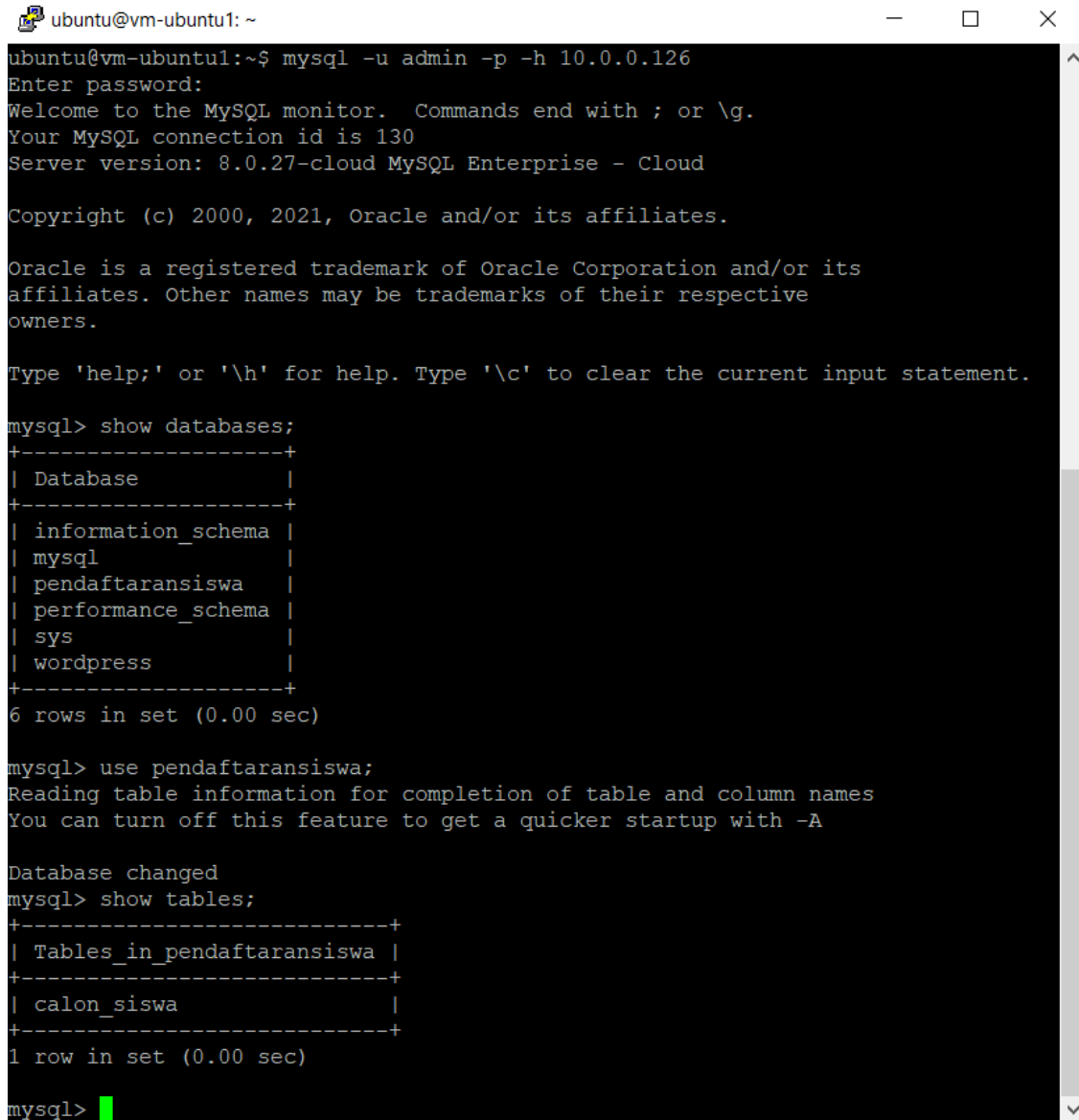
5. Mengecek file dengan format .sql supaya bisa mengimpor table-tabel untuk database pendaftaransiswa

```
ubuntu@vm-ubuntu1:/var/www/html$ ls tutorial-php-mysql
README.md  form-daftar.php  hapus.php  list-siswa.php  proses-edit.php
config.php  form-edit.php   index.php  pendaftaran_siswa.sql  proses-pendaftaran.php
ubuntu@vm-ubuntu1:/var/www/html$
```

6. Masuk ke MySQL untuk mengimpor file .sql dari folder tutorial-
phpmysql/pendaftaran_siswa.sql

```
ubuntu@vm-ubuntu1:/var/www/html$ mysql -u admin -p -h 10.0.0.126 pendaftaransiswa < /var/www/html/tutorial-php-mysql/pendaftaran_siswa.sql
Enter password:
ubuntu@vm-ubuntu1:/var/www/html$
```

7. Melihat table yang diimpor tadi pada database pendaftaransiswa, untuk memastikan apakah berhasil diimpor



```
ubuntu@vm-ubuntu1: ~
mysql -u admin -p -h 10.0.0.126
Enter password:
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 130
Server version: 8.0.27-cloud MySQL Enterprise - Cloud

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affiliates. Other names may be trademarks of their respective
owners.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql> show databases;
+-----+
| Database                |
+-----+
| information_schema       |
| mysql                    |
| pendaftaransiswa         |
| performance_schema      |
| sys                      |
| wordpress                |
+-----+
6 rows in set (0.00 sec)

mysql> use pendaftaransiswa;
Reading table information for completion of table and column names
You can turn off this feature to get a quicker startup with -A

Database changed
mysql> show tables;
+-----+
| Tables_in_pendaftaransiswa |
+-----+
| calon_siswa                 |
+-----+
1 row in set (0.00 sec)

mysql>
```

8. Mengedit file konfigurasi php

```
ubuntu@vm-ubuntu1:~$ cd /var/www/html
ubuntu@vm-ubuntu1:/var/www/html$ cd tutprial-php-mysql
-bash: cd: tutprial-php-mysql: No such file or directory
ubuntu@vm-ubuntu1:/var/www/html$ ls
index.html  tutorial-php-mysql  wordpress
ubuntu@vm-ubuntu1:/var/www/html$ cd tutorial-php-mysql
ubuntu@vm-ubuntu1:/var/www/html/tutorial-php-mysql$ ls
README.md      form-edit.php  list-siswa.php      proses-pendaftaran.php
config.php      hapus.php      pendaftaran_siswa.sql
form-daftar.php index.php      proses-edit.php
```

➤ File index.php

```
ubuntu@vm-ubuntu1: /var/www/html/tutorial-php-mysql
GNU nano 4.8 wp-index.php Modified
<?php
<html>
<head>
<title>Pendaftaran Siswa Baru | SMA Darul Ulum 3</title>
</head>
<body>
<header>
<h3>Pendaftaran Siswa Baru</h3>
<h1>SMA Darul Ulum 3</h1>
</header>
<h4><Menu></h4>
<nav>
<ul>
<li>a href="form-daftar.php">Daftar Baru</li>
<li>a href="list-siswa.php">Pendaftar</li>
</ul>
</nav>
<?php if(isset($_GET['status'])): ?>
<p>
<?php
    if($_GET['status'] == 'sukses') {
        echo "Pendaftaran siswa baru berhasil!";
    } else {
        echo "Pendaftaran gagal!";
    }
</p>
<?php endif: ?>
</body>
</html>
```

➤ File config.php

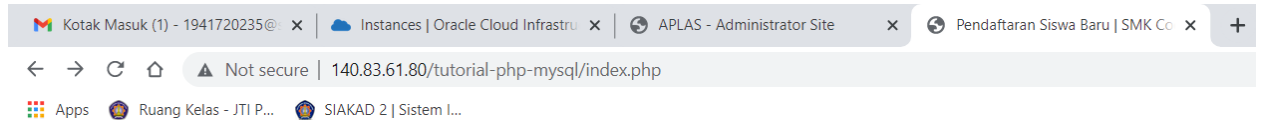
```
ubuntu@vm-ubuntu1: /var/www/html/tutorial-php-mysql
GNU nano 4.8 config.php Modified
<?php
$server = "10.0.0.126";
$user = "admin";
$password = "@2001IbRaHi";
$name_database = "pendaftaran_siswa";

$db = mysqli_connect($server, $user, $password, $name_database);

if( !$db ){
    die("Gagal terhubung dengan database: " . mysqli_connect_error());
}

?>
```

9. Setelah itu kita coba jalankan aplikasinya



Pendaftaran Siswa Baru

SMK Coding

Menu

- [Daftar Baru](#)
- [Pendaftar](#)