



**YAYASAN PRAWITAMA
SMK WIKRAMA BOGOR**

Jl. Raya Wangun Kel. Sindangsari Kota Bogor

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LK Cloud 3.1 – AWS VPC

Lembar Kerja Peserta Didik

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NIS : 12209161
Kelas : TJKT XII-3
Judul Materi : Build AWS VPC & Launch EC2 Instance

NILAI

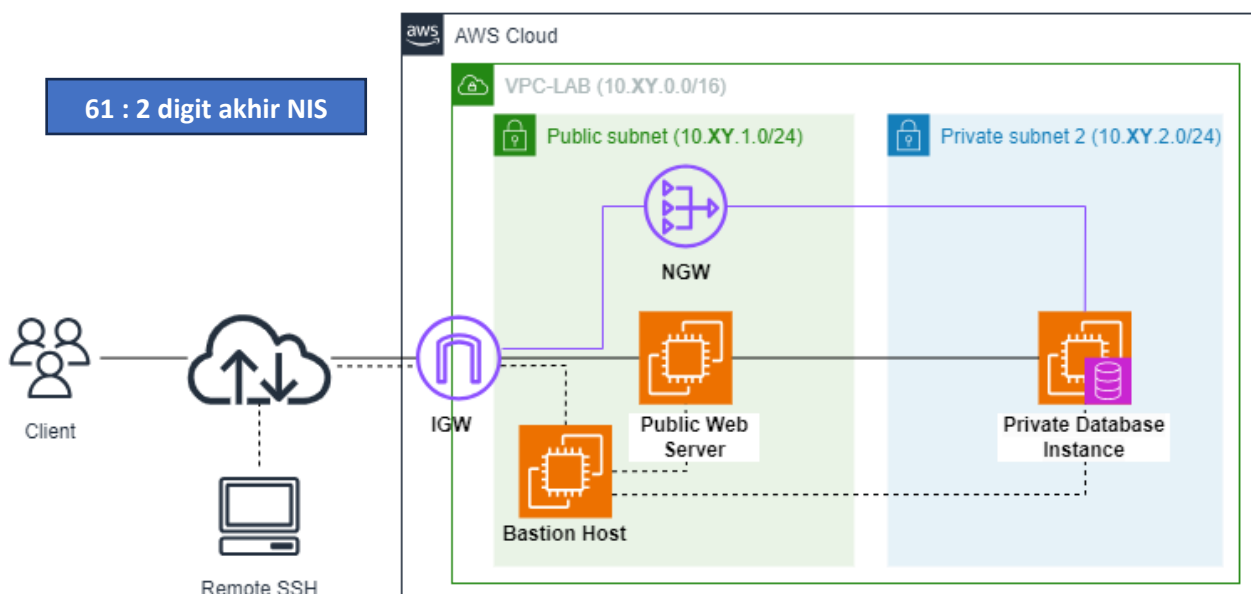
Petunjuk Kerja :

- Menyiapkan Software aplikasi pendukung
- Menyiapkan Laptop / PC
- Menyiapkan Koneksi Internet
- Menyiapkan peralatan Praktek
- Menyiapkan Modul Panduan Kerja (Handout) AWS VPC & EC2 Instance

Langkah Kerja

Skenario / Soal

Anda adalah seorang Cloud Engineer memiliki tanggung jawab untuk merancang, mengelola, dan mengoptimalkan infrastruktur komputasi awan (cloud computing) perusahaan. Tugas anda mencakup berbagai aspek yang terkait dengan cloud, termasuk penerapan, pengelolaan, keamanan, dan skalabilitas. Saat ini anda ditugaskan untuk membangun infrastruktur terisolasi menggunakan Amazon VPC dan menjalankan EC2 instance sesuai dengan topologi dibawah ini.





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Ketentuan konfigurasi :

- IP Address VPC

VPC	10.61.0.0/16
Public Subnet	10.61.1.0/24
Private Subnet	10.61.2.0/24

- Sources-code Web Dinamis
<https://github.com/suryamsj/tutorial-crud-php-native>
- Konfigurasi database
 - Host : ip-private DBInstance
 - Nama-db : db_web**nama** (ex : db_webmaman).
 - User-db : admin**nama** (ex : adminmaman)
 - Password : P4ssw0rdDB



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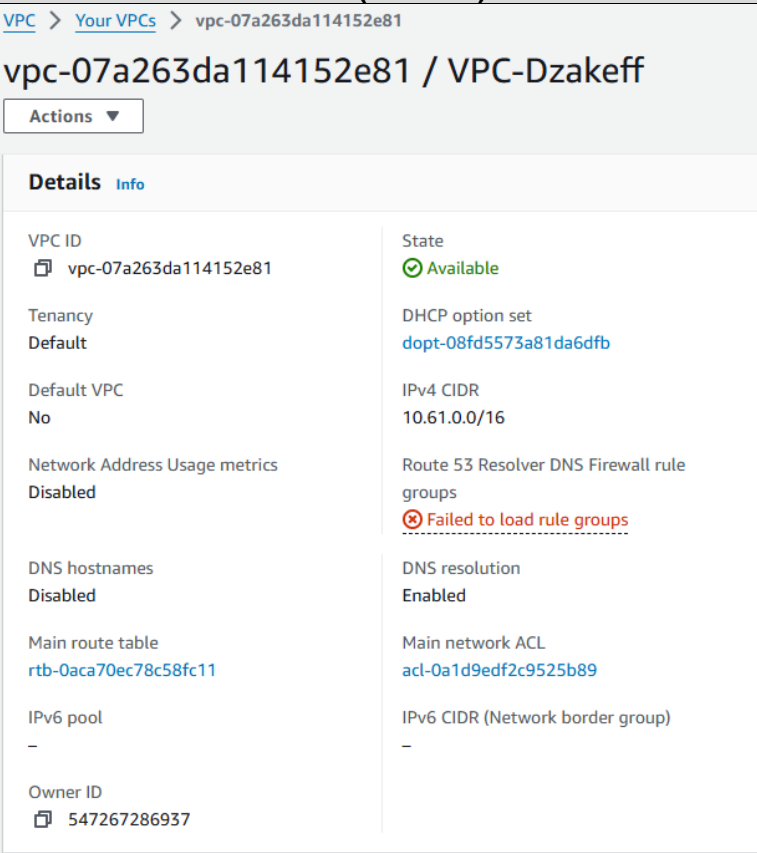
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Dokumentasi

1. Konfigurasi VPC

** Berikan detail langkah-langkah disetiap nomor*.

No	Keterangan Konfigurasi	Hasil (Gambar)
1	Membuat VPC *Detail langkah konfigurasi Pertama-pertama saya hanya membuat VPC saja tanpa menggunakan VPC and <i>more</i> . Kemudian namakan VPC sesuai selera, kemudian setting IPv4.	

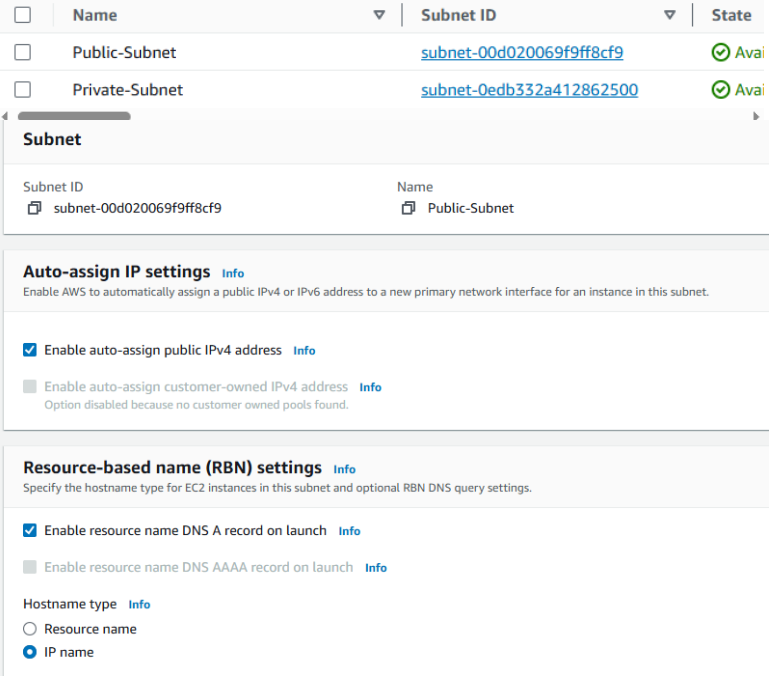
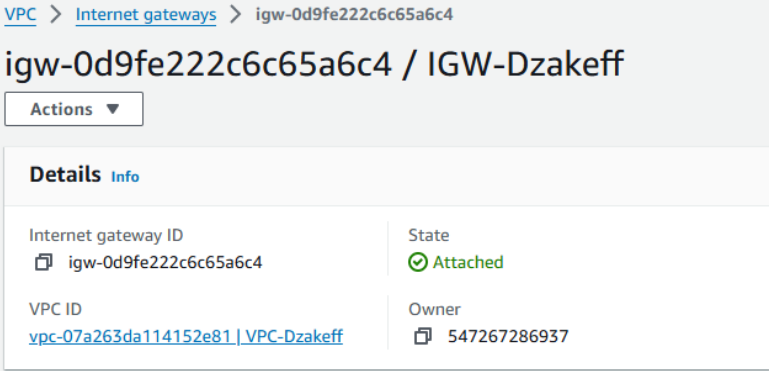


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2	<p>Membuat Subnets.</p> <p>*Detail langkah konfigurasi Disini SysAdmin membuat dua subnet yaitu subnet public dan subnet private. Kemudian pilih zona virginia 1a (karena virginia memiliki tarif yang paling murah). Kemudian SysAdmin memakai IP 10.61.1.0/24 untuk subnet public dan 10.61.2.0/24 untuk subenet private. (khusus public-subnet, saya centang setting <i>auto-assign public IPv4 address</i> dan <i>enable resource name DNS A record on launch</i>)</p>	 <p>The screenshot shows the AWS Subnet configuration interface. At the top, there are two subnets listed: 'Public-Subnet' with ID 'subnet-00d020069f9ff8cf9' and 'Private-Subnet' with ID 'subnet-0edb332a412862500'. Below this, the 'Subnet' section shows the selected subnet ID and name. The 'Auto-assign IP settings' section has 'Enable auto-assign public IPv4 address' checked. The 'Resource-based name (RBN) settings' section has 'Enable resource name DNS A record on launch' checked and 'IP name' selected as the hostname type.</p>
3	<p>Membuat Internet Gateway</p> <p>*Detail langkah konfigurasi Disini SysAdmin menambahkan internet gateway yang berfungsi agar server bisa akses internet dari VPC.</p>	 <p>The screenshot shows the AWS Internet Gateway configuration page for 'igw-0d9fe222c6c65a6c4 / IGW-Dzakeff'. The 'Details' section shows the Internet gateway ID, VPC ID 'vpc-07a263da114152e81 VPC-Dzakeff', and the state 'Attached'.</p>



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4	<p>Membuat NAT Gateway</p> <div><p>*Detail langkah konfigurasi SysAdmin membuat NAT Gateway karena database itu tidak menggunakan IP public. Jadi memerlukan NAT gateway agar bisa terkoneksi ke internet.</p></div>	<div><div>VPC > NAT gateways > nat-05e51e16dac00974e</div><div>nat-05e51e16dac00974e / NGW-Dzakeff</div><div>Actions ▾</div><div><div>Details</div><div><div><div>NAT gateway ID</div><div>nat-05e51e16dac00974e</div></div><div><div>NAT gateway ARN</div><div>arn:aws:ec2:us-east-1:547267286937:natgateway/nat-05e51e16dac00974e</div></div><div><div>VPC</div><div>vpc-07a263da114152e81 / VPC-Dzakeff</div></div><div><div>State</div><div>Pending</div></div><div><div>Primary private IPv4 address</div><div>10.61.1.61</div></div><div><div>Created</div><div>Tuesday, July 30, 2024 at 10:42:06 GMT+7</div></div></div><div><div>Connectivity type</div><div>Public</div></div><div><div>Primary public IPv4 address</div><div>–</div></div><div><div>Subnet</div><div>subnet-00d020069f9ff8cf9 / Public-Subnet</div></div><div><div>State message</div><div>Info</div></div><div><div>Primary network interface ID</div><div>eni-0c659bcbe7982652d</div></div><div><div>Deleted</div><div>–</div></div></div></div>
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Membuat Tabel Routing

*Detail langkah konfigurasi
Disini SysAdmin
menambahkan route tables
guna untuk mengatur arah
jaringannya akan kemana.
Untuk public-RT
menggunakan IGW (Internet
Gateway) dan untuk private-
RT menggunakan NGW (NAT
Gateway).
(Gunakan VPC yang sudah
dibuat dan gunakan subnet
yang sesuai).

rtb-0078f0d6fb94477f8 / Public-RT

Actions

Details Info

Route table ID
rtb-0078f0d6fb94477f8

Main
No

VPC
vpc-07a263da114152e81 | VPC-Dzakeff

Owner ID
547267286937

Explicit subnet associations
subnet-00d020069f9ff8cf9 / Public-Subnet

Edge associations
-

< Routes Subnet associations Edge associations Route propagatic >

Routes (2) Both Edit routes

Filter routes

< 1 >

Destination	Target	Status	Propagated
0.0.0.0/0	igw-0d9fe222c6...	Active	No
10.61.0.0/16	local	Active	No

rtb-0119faedf03e63fae / Private-RT

Actions

Details Info

Route table ID
rtb-0119faedf03e63fae

Main
No

VPC
vpc-07a263da114152e81 | VPC-Dzakeff

Owner ID
547267286937

Explicit subnet associations
subnet-0edb332a412862500 / Private-Subnet

Edge associations
-

< Routes Subnet associations Edge associations Route propagatic >

Routes (2) Both Edit routes

Filter routes

< 1 >

Destination	Target	Status	Propagated
0.0.0.0/0	nat-05e51e16da...	Active	No
10.61.0.0/16	local	Active	No



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2. Membuat Security Group

** Screenshoot pengaturan inbound-rules.

No	Keterangan Konfigurasi	Hasil (Gambar)
1	<p>Security Group : BastionHost</p> <p>*Detail langkah konfigurasi Disini SysAdmin membuat security grup berguna untuk mengatur instance apa saja yang menggunakan suatu port. (contoh untuk bastion membuka port 22 (SSH) untuk ke semua IP yang dapat mengakses).</p>	
2	<p>Security Group : Web Server</p> <p>*Detail langkah konfigurasi Disini SysAdmin membuat security grup berguna untuk mengatur instace apa saja yang menggunakan suatu port. (contoh untuk web server membuka port 80 (HTTP) dan 443 (HTTPS) untuk ke semua IP yang dapat mengakses. Khusus untuk port 22 (SSH), gunakan source dari SG-Bastion. Karena instance web server hanya boleh di remote dari instance Bastion saja).</p>	

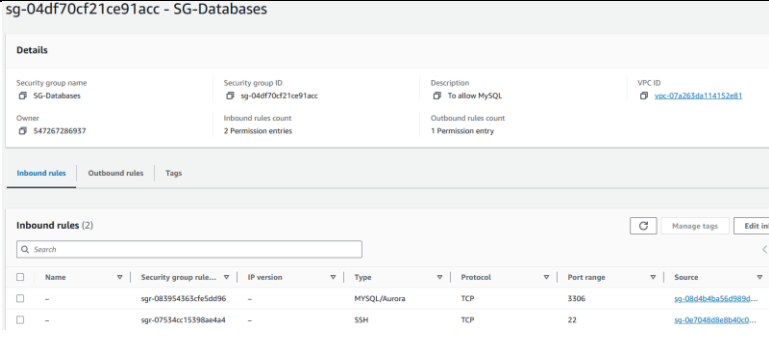


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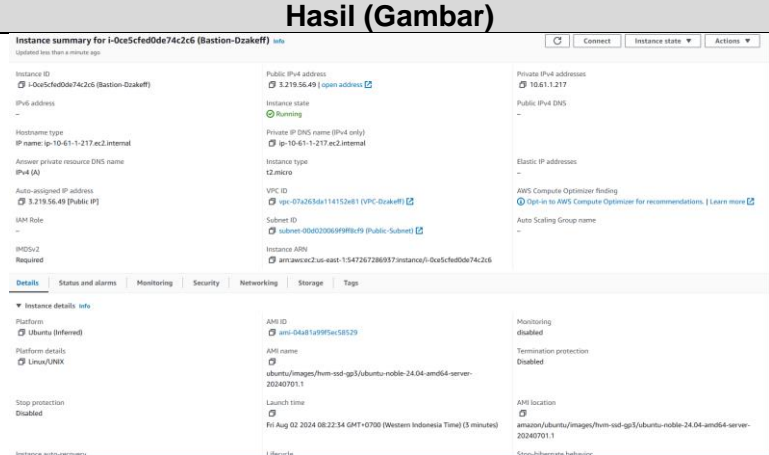
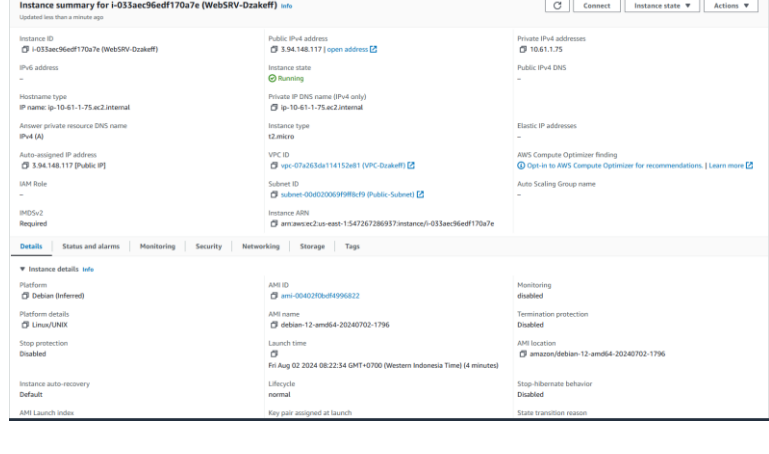
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3	<p>Security Group : DBInstance</p> <p>*Detail langkah konfigurasi Disini SysAdmin membuat security grup berguna untuk mengatur instace apa saja yang menggunakan suatu port. (contoh untuk Database membuka port 3306 (MYSQL) agar dapat di akses oleh instance webserver dan port 22 SSH agar bisa di remote oleh instance bastion.</p>	<p>sg-04df70cf21ce91acc - SG-Databases</p> 
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3. Launch EC2 Instance

** Screenshoot tampilan EC2 details information.

No	Keterangan Konfigurasi	Hasil (Gambar)
1	<p>Launch instance : BastionHost</p> <p>*Detail langkah konfigurasi Disini membuat instance bastion untuk remote ke webserver dan database. Sesuaikan VPC dan Security Group(untuk settingan key pair masih menggunakan vockey).</p>	
2	<p>Launch instance: Web Server</p> <p>*Detail langkah konfigurasi Disini membuat instance Webserver untuk setting website. Sesuaikan VPC dan Security Group(untuk settingan key pair Menggunakan key yang baru dengan nama KP-WebSRV).</p>	

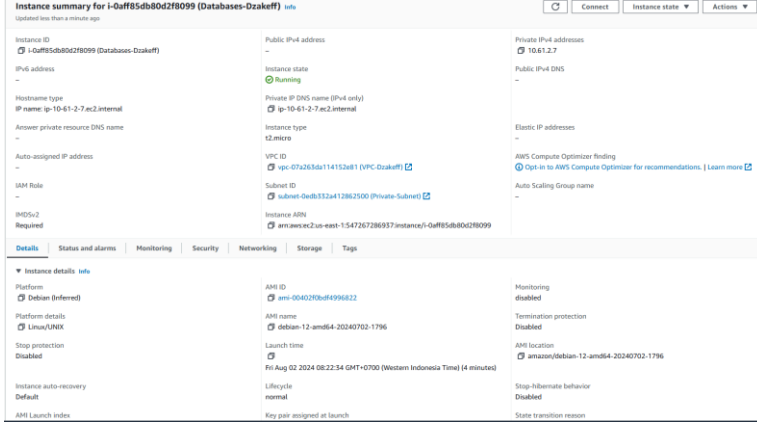


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3	<p>Launch instance: Database</p> <p>*Detail langkah konfigurasi</p> <p>Disini membuat instance Database untuk menyimpan informasi untuk website. Sesuaikan VPC dan Security Group (untuk settingan key pair Menggunakan key yang baru dengan nama KP-Databases).</p>	
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Tabel IP-Address Instance

Nama Instance	IP Public	IP Private
Bastion Host	3.238.188.162	10.61.1.217
Web Server	18.215.188.87	10.61.1.75
Database	-	10.61.2.7



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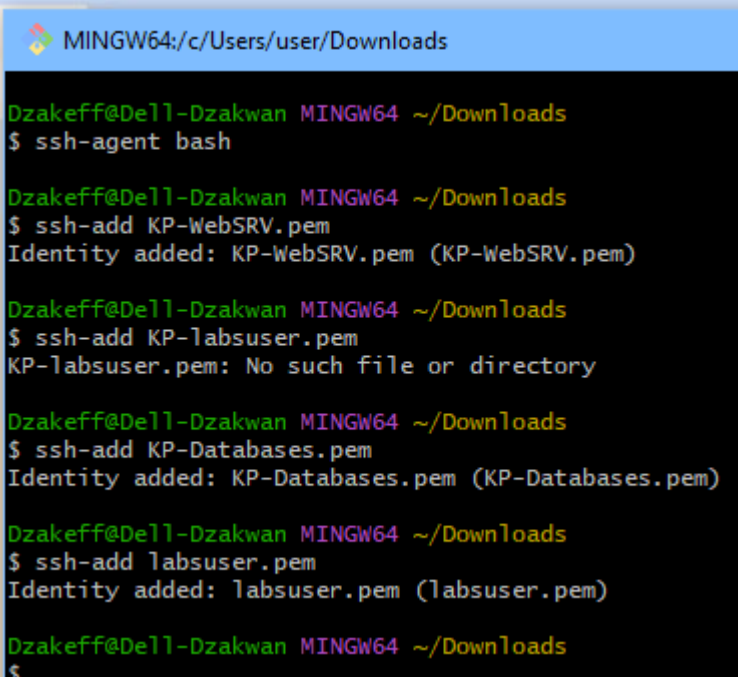
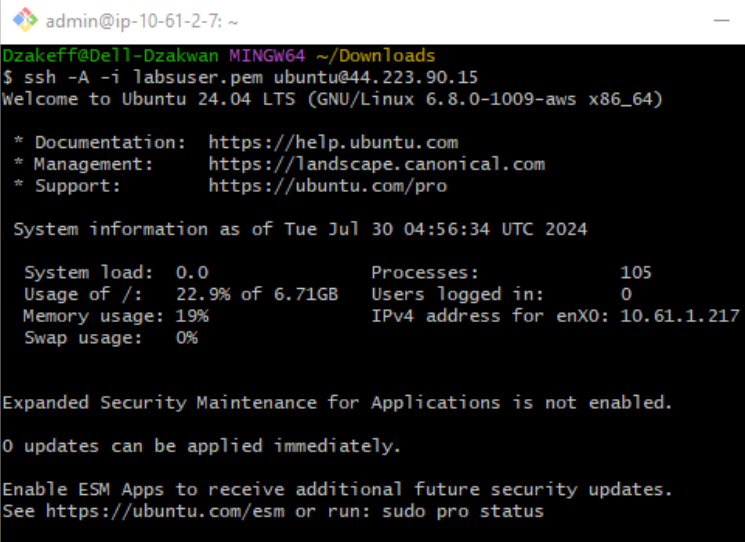
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4. Remote SSH melalui BationHost

** Praktikan akses SSH bation host menggunakan GitBash dan Putty.

No	Keterangan Konfigurasi	Hasil (Gambar)
Praktik menggunakan GitHub		
1	Running ssh-agent & tambahkan keypair.	 <pre>MINGW64:/c/Users/user/Downloads Dzakeff@Dell-Dzakwan MINGW64 ~/Downloads \$ ssh-agent bash Dzakeff@Dell-Dzakwan MINGW64 ~/Downloads \$ ssh-add KP-WebSRV.pem Identity added: KP-WebSRV.pem (KP-WebSRV.pem) Dzakeff@Dell-Dzakwan MINGW64 ~/Downloads \$ ssh-add KP-labsuser.pem KP-labsuser.pem: No such file or directory Dzakeff@Dell-Dzakwan MINGW64 ~/Downloads \$ ssh-add KP-Databases.pem Identity added: KP-Databases.pem (KP-Databases.pem) Dzakeff@Dell-Dzakwan MINGW64 ~/Downloads \$ ssh-add labsuser.pem Identity added: labsuser.pem (labsuser.pem) Dzakeff@Dell-Dzakwan MINGW64 ~/Downloads \$</pre>
2	Remote ke instance BastionHost	 <pre>admin@ip-10-61-2-7: ~ Dzakeff@Dell-Dzakwan MINGW64 ~/Downloads \$ ssh -A -i labsuser.pem ubuntu@44.223.90.15 Welcome to Ubuntu 24.04 LTS (GNU/Linux 6.8.0-1009-aws x86_64) * Documentation: https://help.ubuntu.com * Management: https://landscape.canonical.com * Support: https://ubuntu.com/pro System information as of Tue Jul 30 04:56:34 UTC 2024 System load: 0.0 Processes: 105 Usage of /: 22.9% of 6.71GB Users logged in: 0 Memory usage: 19% IPv4 address for enX0: 10.61.1.217 Swap usage: 0% Expanded Security Maintenance for Applications is not enabled. 0 updates can be applied immediately. Enable ESM Apps to receive additional future security updates. See https://ubuntu.com/esm or run: sudo pro status</pre>



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3	Akses SSH ke Instance Web Server	<pre>ubuntu@ip-10-61-1-217:~\$ ssh admin@10.61.1.75 The authenticity of host '10.61.1.75 (10.61.1.75)' can't be established. ED25519 key fingerprint is SHA256:msly+xDQT/IbqmSXFwv4aXPLQKGLyX47aZUawt9dc8. This key is not known by any other names. Are you sure you want to continue connecting (yes/no/[fingerprint])? yes Warning: Permanently added '10.61.1.75' (ED25519) to the list of known hosts. Linux ip-10-61-1-75 6.1.0-22-cloud-amd64 #1 SMP PREEMPT_DYNAMIC Debian 6.1.94-1 (2024-06-21) x86_64 The programs included with the Debian GNU/Linux system are free software; the exact distribution terms for each program are described in the individual files in /usr/share/doc/*/copyright. Debian GNU/Linux comes with ABSOLUTELY NO WARRANTY, to the extent permitted by applicable law. admin@ip-10-61-1-75:~\$</pre>
4	Akses SSH ke DBInstance	<pre>ubuntu@ip-10-61-1-217:~\$ ssh admin@10.61.2.7 The authenticity of host '10.61.2.7 (10.61.2.7)' can't be established. ED25519 key fingerprint is SHA256:/cMF2P4/iVmksSwBdiQk4etT6onWabNKAJuXfATJYA. This key is not known by any other names. Are you sure you want to continue connecting (yes/no/[fingerprint])? yes Warning: Permanently added '10.61.2.7' (ED25519) to the list of known hosts. Linux ip-10-61-2-7 6.1.0-22-cloud-amd64 #1 SMP PREEMPT_DYNAMIC Debian 6.1.94-1 (2024-06-21) x86_64 The programs included with the Debian GNU/Linux system are free software; the exact distribution terms for each program are described in the individual files in /usr/share/doc/*/copyright. Debian GNU/Linux comes with ABSOLUTELY NO WARRANTY, to the extent permitted by applicable law. admin@ip-10-61-2-7:~\$</pre>

Praktik menggunakan Putty

1	<div>Convert file .pem ke .ppk</div> <div>*Detail langkah konfigurasi Pertama, masukan key pair format .pem ke putty gen. Kemudian klik save private key</div>	<p>The screenshot shows the PuTTY Key Generator interface. A 'PuTTYgen Notice' dialog box is displayed, stating: 'Successfully imported foreign key (OpenSSH SSH-2 private key (old PEM format)). To use this key with PuTTY, you need to use the "Save private key" command to save it in PuTTY's own format.' The 'Key' section shows the public key for pasting into the OpenSSH authorized_keys file, the key fingerprint, and the key comment 'imported-openssh-key'. The 'Actions' section has buttons for 'Generate', 'Load', and 'Save private key'. The 'Parameters' section shows 'Type of key to generate' set to 'RSA' and 'Number of bits in a generated key' set to '2048'. Below the dialog, a list of generated files is shown under the heading 'Today (3)': 'KP-Databases.ppk' (PuTTY Private Key File, 1,42 KB), 'KP-WebSRV.ppk' (PuTTY Private Key File, 1,42 KB), and 'labsuser.ppk' (PuTTY Private Key File, 1,42 KB).</p>
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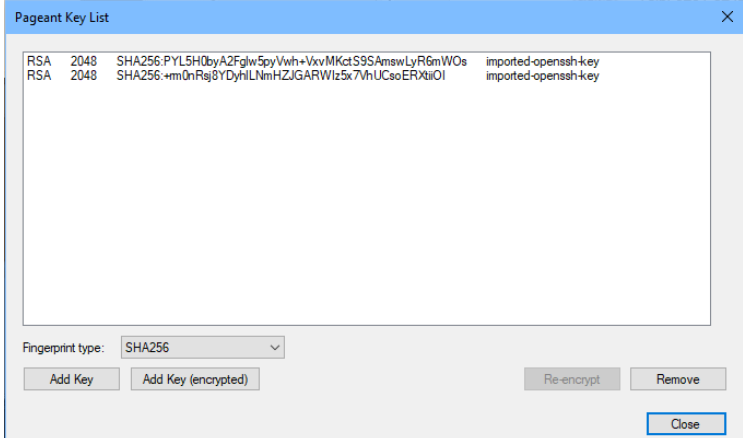
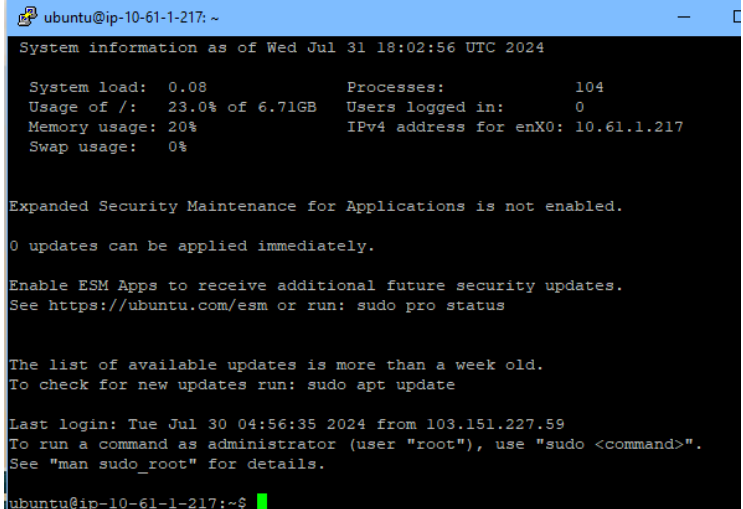


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2	Tambahkan keypair ke pageant.exe	
3	Remote ke instance Bastion Host	



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4	Remote ke instance Web Server	<pre>ubuntu@ip-10-61-1-217:~\$ ssh admin@10.61.1.75 Linux ip-10-61-1-75 6.1.0-22-cloud-amd64 #1 SMP PREEMPT_ (2024-06-21) x86_64 The programs included with the Debian GNU/Linux system a the exact distribution terms for each program are descri individual files in /usr/share/doc/*/copyright. Debian GNU/Linux comes with ABSOLUTELY NO WARRANTY, to t permitted by applicable law. Last login: Tue Jul 30 05:03:49 2024 from 10.61.1.217 admin@ip-10-61-1-75:~\$</pre>
5	Remote ke DBInstance	<pre>ubuntu@ip-10-61-1-217:~\$ ssh admin@10.61.2.7 Linux ip-10-61-2-7 6.1.0-22-cloud-amd64 #1 SMP PREEMPT_DYNAMIC Debia 2024-06-21) x86_64 The programs included with the Debian GNU/Linux system are free soft the exact distribution terms for each program are described in the individual files in /usr/share/doc/*/copyright. Debian GNU/Linux comes with ABSOLUTELY NO WARRANTY, to the extent permitted by applicable law. Last login: Tue Jul 30 04:59:56 2024 from 10.61.1.217 admin@ip-10-61-2-7:~\$</pre>

5. Instalasi dan Konfigurasi Web Dinamis

No	Keterangan Konfigurasi	Hasil (Gambar)
1	Update dan upgrade paket di instance Web Server	<pre>root@ip-10-61-1-75:~# apt update Get:1 file:/etc/apt/mirrors/debian.list Mirrorlist [38 B] Get:5 file:/etc/apt/mirrors/debian-security.list Mirrorlist [47 B] Get:2 https://cdn-aws.deb.debian.org/debian bookworm InRelease [151 kB] Get:3 https://cdn-aws.deb.debian.org/debian bookworm-updates InRelease Get:4 https://cdn-aws.deb.debian.org/debian bookworm-backports InRelease Get:6 https://cdn-aws.deb.debian.org/debian-security bookworm-security Get:7 https://cdn-aws.deb.debian.org/debian bookworm/main Sources [9485 Get:8 https://cdn-aws.deb.debian.org/debian bookworm/main amd64 Package Get:9 https://cdn-aws.deb.debian.org/debian bookworm/main Translation-e Get:10 https://cdn-aws.deb.debian.org/debian bookworm-updates/main Sourc Get:11 https://cdn-aws.deb.debian.org/debian bookworm-updates/main amd6 Get:12 https://cdn-aws.deb.debian.org/debian bookworm-updates/main Tran Get:13 https://cdn-aws.deb.debian.org/debian bookworm-backports/main Sc Get:14 https://cdn-aws.deb.debian.org/debian bookworm-backports/main am Get:15 https://cdn-aws.deb.debian.org/debian bookworm-backports/main Tr Get:16 https://cdn-aws.deb.debian.org/debian-security bookworm-security Get:17 https://cdn-aws.deb.debian.org/debian-security bookworm-security Get:18 https://cdn-aws.deb.debian.org/debian-security bookworm-security Fetched 25.8 MB in 4s (6866 kB/s) Reading package lists... Done Building dependency tree... Done Reading state information... Done 7 packages can be upgraded. Run 'apt list --upgradable' to see them. root@ip-10-61-1-75:~# root@ip-10-61-1-75:~# apt upgrade -y Reading package lists... Done Building dependency tree... Done Reading state information... Done Calculating upgrade... Done The following NEW packages will be installed: firmware-linux-free linux-image-6.1.0-23-cloud-amd64 The following packages will be upgraded: bind9-host bind9-libs libgssapi-krb5-2 libk5crypto3 libkrb5-3 libkrb5support0 7 upgraded, 2 newly installed, 0 to remove and 0 not upgraded. Need to get 28.1 MB of archives.</pre>



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2	Install web server, php, php-mysql, git dan mariadb-client.	<pre>root@ip-10-61-1-75:~# apt list apache2 php php-mysql git mariadb-client Listing... Done apache2/stable-security,now 2.4.61-1~deb12u1 amd64 [installed] git/stable,now 1:2.39.2-1.1 amd64 [installed] mariadb-client/stable,now 1:10.11.6-0+deb12u1 amd64 [installed] php-mysql/stable,now 2:8.2+93 all [installed] php/stable,now 2:8.2+93 all [installed] root@ip-10-61-1-75:~#</pre>
3	Restart service apache2	<pre>root@ip-10-61-1-75:~# systemctl restart apache2 root@ip-10-61-1-75:~#</pre>
4	Remote ke DBInstance kemudian update dan upgrade paket APT	<pre>root@ip-10-61-2-7:~# apt update && apt upgrade -y Get:1 file:/etc/apt/mirrors/debian.list Mirrorlist [38 B] Get:5 file:/etc/apt/mirrors/debian-security.list Mirrorlist [47 B] Hit:2 https://cdn-aws.deb.debian.org/debian bookworm InRelease Hit:3 https://cdn-aws.deb.debian.org/debian bookworm-updates InRelease Hit:4 https://cdn-aws.deb.debian.org/debian bookworm-backports InRelease Hit:6 https://cdn-aws.deb.debian.org/debian-security bookworm-security InRelease Reading package lists... Done Building dependency tree... Done Reading state information... Done All packages are up to date. Reading package lists... Done Building dependency tree... Done Reading state information... Done Calculating upgrade... Done 0 upgraded, 0 newly installed, 0 to remove and 0 not upgraded. root@ip-10-61-2-7:~#</pre>
5	Instalasi DBMS mariadb di DBInstance *Detail langkah konfigurasi Pada instance database, dilakukan install mariadb-server untuk menyimpan data user.	<pre>root@ip-10-61-2-7:~# apt list mariadb-server Listing... Done mariadb-server/stable,now 1:10.11.6-0+deb12u1 amd64 [installed] root@ip-10-61-2-7:~#</pre>



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6	<p>Konfigurasi database untuk web CRUD.</p> <div><p>* Tambahkan keterangan / penjelasan Disini saya membuat database baru dengan nama db_webdzakeff. Kemudian saya membuat user admindzakeff dengan password P4ssw0rdDB. Kemudian saya memberikan full akses kepada akun admindzakeff. Setelah itu saya flush privileged yang berguna untuk menerapkan hasil settingan akses yang baru dilakukan tanpa perlu me-restart mariadb-server/server.</p></div> <p>** perhatikan ketentuan diatas.</p>	<pre>MariaDB [(none)]> create database db_webdzakeff; Query OK, 1 row affected (0.000 sec) MariaDB [(none)]> create user 'admindzakeff'@'%' identified by 'P4ssw0rdDB'; Query OK, 0 rows affected (0.004 sec) MariaDB [(none)]> grant all privileges on "." to 'admindzakeff'@'%'; ERROR 1064 (42000): You have an error in your SQL syntax; check the manual th rsion for the right syntax to use near '."' to 'admindzakeff'@'%' at line 1 MariaDB [(none)]> grant all privileges on *.* to 'admindzakeff'@'%'; Query OK, 0 rows affected (0.001 sec) MariaDB [(none)]> flush privileges; ERROR 1064 (42000): You have an error in your SQL syntax; check the manual th rsion for the right syntax to use near 'priviledges' at line 1 MariaDB [(none)]> flush privileges; Query OK, 0 rows affected (0.001 sec)</pre>
7	<p>Edit file connection.php</p>	<pre>GNU nano 7.2 function/connection.php * <?php \$hostname = "10.61.2.7"; \$username = "admindzakeff"; \$password = "P4ssw0rdDB"; \$database = "db_webdzakeff"; \$connection = mysqli_connect(\$hostname, \$username, \$password, \$database); if (!\$connection) { die(mysqli_error(\$connection)); }</pre>



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8	<p>Edit file 50-server.cnf</p> <div><p>* Tambahkan keterangan / penjelasan Disini SysAdmin memberi pagar pada baris bind-address agar database bisa di akses lebih luas.</p></div>	<pre>GNU nano 7.2 /etc/mysql/ # # These groups are read by MariaDB server. # Use it for options that only the server (but not # this is read by the standalone daemon and embedd [server] # this is only for the mysqld standalone daemon [mysqld] # # * Basic Settings # #user = mysql pid-file = /run/mysqld/mysqld.pid basedir = /usr #datadir = /var/lib/mysql #tmpdir = /tmp # Broken reverse DNS slows down connections consid # safe to skip if there are no "host by domain nam #skip-name-resolve # Instead of skip-networking the default is now to # localhost which is more compatible and is not le #bind-address = 127.0.0.1</pre>
9	<p>Restart mariadb</p>	<pre>root@ip-10-61-2-7:~# systemctl restart mysql root@ip-10-61-2-7:~# systemctl status mysql ● mariadb.service - MariaDB 10.11.6 database server Loaded: loaded (/lib/systemd/system/mariadb.service; enabled; preset: enabled) Active: active (running) since Wed 2024-07-31 18:29:58 UTC; 10s ago Docs: man:mariadb(8) https://mariadb.com/kb/en/library/systemd/ Process: 6110 ExecStartPre=/usr/bin/install -m 755 -o mysql -g root -d /var/run/my Process: 6112 ExecStartPre=/bin/sh -c systemctl unset-environment _WSREP_START_POS Process: 6114 ExecStartPre=/bin/sh -c [! -e /usr/bin/galera_recovery] && VAR= Process: 6180 ExecStartPost=/bin/sh -c systemctl unset-environment _WSREP_START_POS Process: 6183 ExecStartPost=/etc/mysql/debian-start (code=exited, status=0/SUCCESS) Main PID: 6170 (mariabdb) Status: "Taking your SQL requests now..." Tasks: 12 (limit: 1137) Memory: 84.6M CPU: 398ms CGroup: /system.slice/mariadb.service └─6170 /usr/sbin/mariabdb root@ip-10-61-2-7:~# root@ip-10-61-2-7:~# systemctl restart mariadb root@ip-10-61-2-7:~# systemctl status mariadb ● mariadb.service - MariaDB 10.11.6 database server Loaded: loaded (/lib/systemd/system/mariadb.service; enabled; preset: enabled) Active: active (running) since Wed 2024-07-31 18:32:00 UTC; 1min 10s ago Docs: man:mariadb(8) https://mariadb.com/kb/en/library/systemd/ Process: 6236 ExecStartPre=/usr/bin/install -m 755 -o mysql -g root -d /var/run/my Process: 6238 ExecStartPre=/bin/sh -c systemctl unset-environment _WSREP_START_POS Process: 6240 ExecStartPre=/bin/sh -c [! -e /usr/bin/galera_recovery] && VAR= Process: 6305 ExecStartPost=/bin/sh -c systemctl unset-environment _WSREP_START_POS</pre>



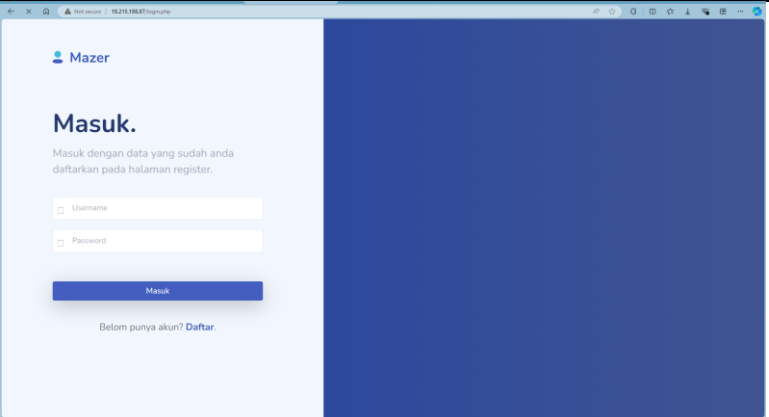
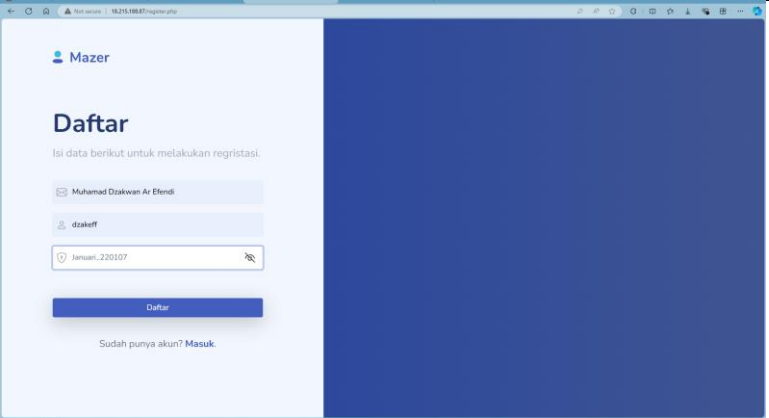
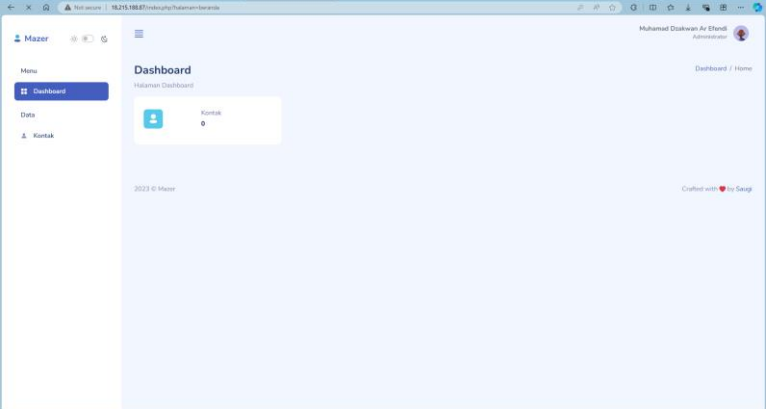
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6. Pengujian CRUD di Web dinamis

No	Tampilan	Hasil Gambar
1.	Akses website menggunakan IP Public / DNS	
2.	Membuat user baru	
3.	Tampilan dashboard web	



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4. Praktik CRUD (Create, Read, Update, & Delete)

*Tambahkan keterangan / penjelasan
Disini SysAdmin mencoba membuat kontak Maserati dan police kemudian mengubah nomor Maserati dan menghapus kontak police. CRUD sudah berhasil dilakukan.

The first screenshot shows the 'Data Kontak' page with two entries: Maserati (Nomor: 3800, Status: Dealer) and Police (Nomor: 911, Status: Emergency). The second screenshot shows a 'Berhasil' (Success) message indicating that the 'Police' contact has been successfully deleted. The third screenshot shows the 'Data Kontak' page with only one entry: Maserati (Nomor: 0851, Status: Dealer).

#	Nama	Nomor	Status	Aksi
1	Maserati	3800	Dealer	Edit Hapus
2	Police	911	Emergency	Edit Hapus

Showing 1 to 2 of 2 entries

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** Boleh tambahkan tabel ujicoba sesuai kebutuhan.

😊 Selamat Mengerjakan😊