



LK Cloud 4 – NMS Zabbix

Lembar Kerja Peserta Didik

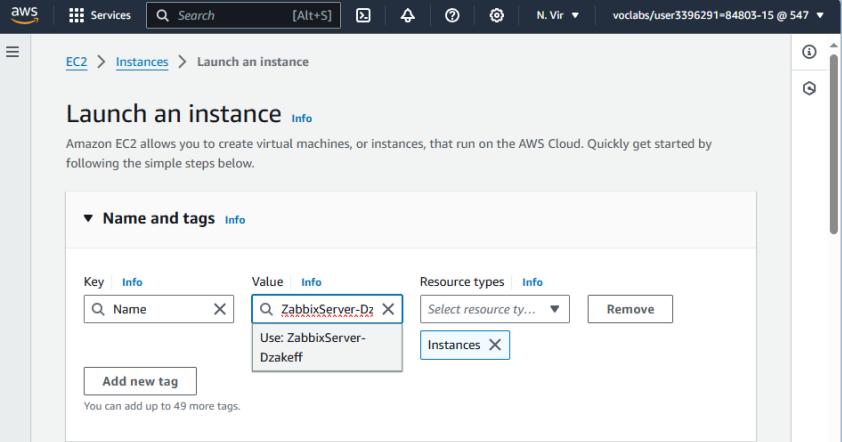
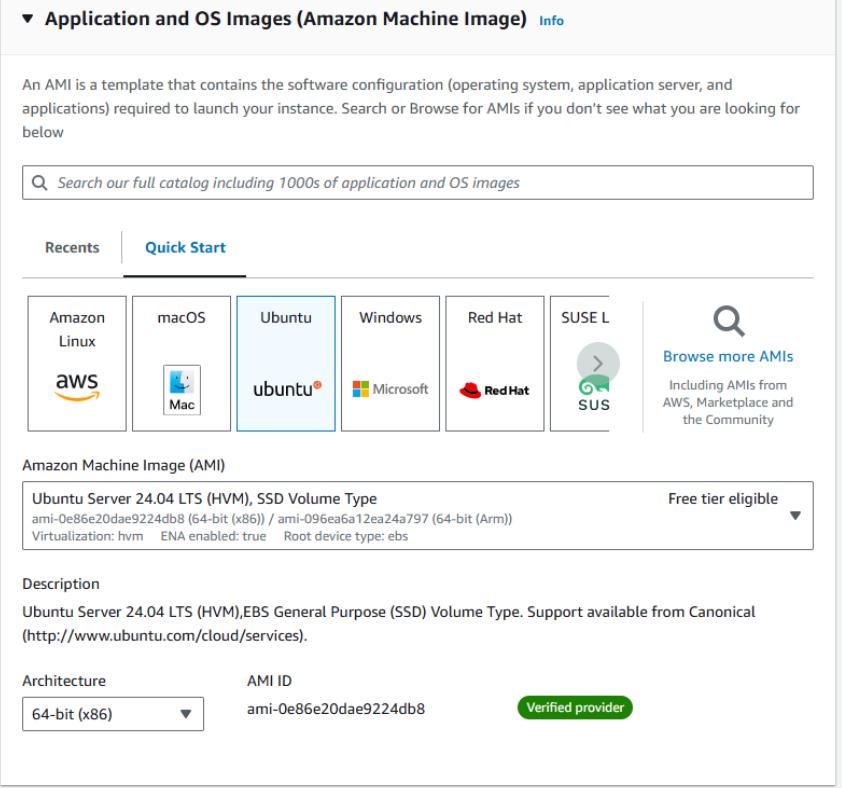
Nama : Muhamad Dzakwan Ar Efendi

NIS : 12209161

Rombel : TJKT XII-3

Materi : Install NMS Zabbix dengan AWS Relational Databases Services (RDS)

A. Hasil Konfigurasi

No	Konfigurasi	Screenshot Hasil Konfigurasi
** Create – Zabbix Server **		
1	Name & Tag set : ZabbixServer-nama ex : ZabbixServer-abdul	
2	AMI / OS Ubuntu : 24.04 (Noble Numbat)	



YAYASAN PRAWITAMA SMK WIKRAMA BOGOR

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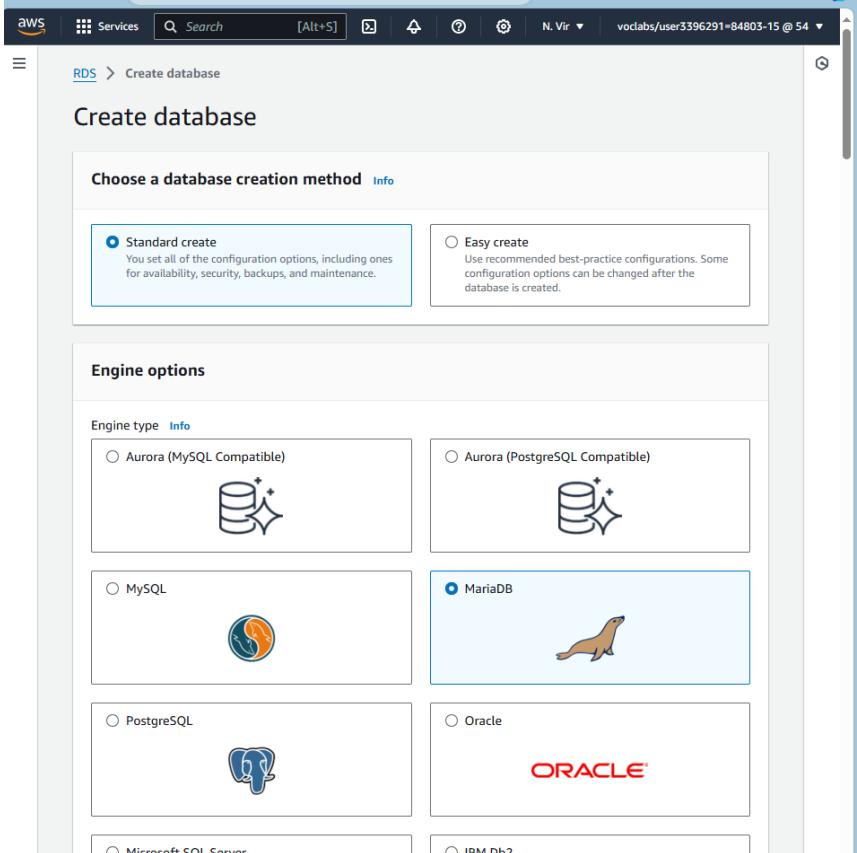
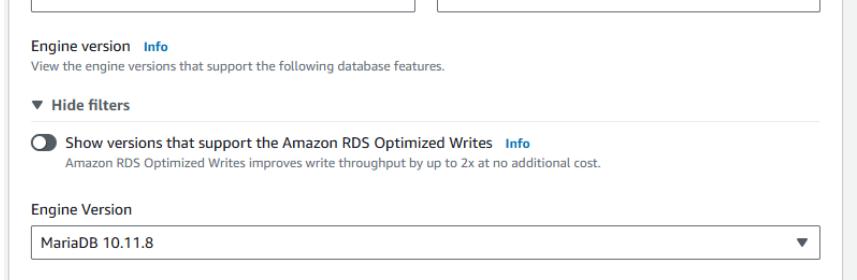
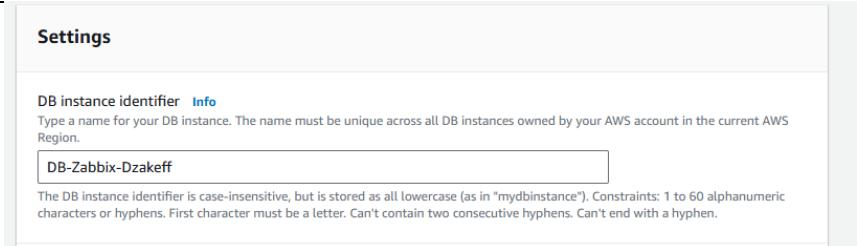
3	Instance Type : <i>t2.small</i>	<p>Instance type Info Get advice</p> <p>t2.small</p> <p>Family: t2 1 vCPU 2 GiB Memory Current generation: true</p> <p>On-Demand Windows base pricing: 0.032 USD per Hour</p> <p>On-Demand Linux base pricing: 0.023 USD per Hour</p> <p>On-Demand RHEL base pricing: 0.0376 USD per Hour</p> <p>On-Demand SUSE base pricing: 0.053 USD per Hour</p> <p>t2.small</p> <p>All generations</p> <p>Compare instance types</p> <p>Additional costs apply for AMIs with pre-installed software</p>																																						
4	Security-Group : SG-All-Open	<p>Network settings Info</p> <p>VPC - required Info</p> <p>vpc-04c8ac22bfa3c8ddb (default) ▾ 172.31.0.0/16</p> <p>Subnet Info</p> <p>No preference ▾</p> <p>Auto-assign public IP Info</p> <p>Enable ▾</p> <p>Additional charges apply when outside of free tier allowance</p> <p>Firewall (security groups) Info</p> <p>A security group is a set of firewall rules that control the traffic for your instance. Add rules to allow specific traffic to reach your instance.</p> <p><input checked="" type="radio"/> Create security group <input type="radio"/> Select existing security group</p> <p>Security group name - required</p> <p>SG-All-Open</p> <p>This security group will be added to all network interfaces. The name can't be edited after the security group is created. Max length is 255 characters. Valid characters: a-z, A-Z, 0-9, spaces, and _.-:/()#@[]+=;&;!\$*</p> <p>Description - required Info</p> <p>Open All TCP port</p> <p>Inbound Security Group Rules</p> <p>Security group rule 1 (TCP, 0-65535, 0.0.0.0/0) ▾ Remove</p> <table border="1"><tr><td>Type Info</td><td>Protocol Info</td><td>Port range Info</td></tr><tr><td>All TCP</td><td>TCP</td><td>0-65535</td></tr></table> <table border="1"><tr><td>Source type Info</td><td>Source Info</td><td>Description - optional Info</td></tr><tr><td>Anywhere</td><td>Add CIDR, prefix list or security</td><td>e.g. SSH for admin desktop</td></tr></table> <p>0.0.0.0/0 X</p> <p>⚠ Rules with source of 0.0.0.0/0 allow all IP addresses to access your instance. We recommend</p>	Type Info	Protocol Info	Port range Info	All TCP	TCP	0-65535	Source type Info	Source Info	Description - optional Info	Anywhere	Add CIDR, prefix list or security	e.g. SSH for admin desktop																										
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5	Instance Details Info	<p>Instance summary for i-0c33f221a32b699ba (ZabbixServer-Dzakeff) Info</p> <p>Updated less than a minute ago</p> <table border="1"><tr><td>Instance ID</td><td>i-0c33f221a32b699ba (ZabbixServer-Dzakeff)</td></tr><tr><td>IPv6 address</td><td>-</td></tr><tr><td>Hostname type</td><td>Answer private resource DNS name</td></tr><tr><td>IP name</td><td>ip-172-31-94-148.ec2.internal</td></tr><tr><td>IPv4 (A)</td><td>172.31.94.148</td></tr><tr><td>Auto-assigned IP address</td><td>54.173.13.11 [Public IP]</td></tr><tr><td>IAM Role</td><td>-</td></tr><tr><td>IMDSv2</td><td>Required</td></tr><tr><td>Private IP address</td><td>172.31.94.148</td></tr><tr><td>Public IPv4 address</td><td>54.173.13.11 open address</td></tr><tr><td>Private IP DNS name (IPv4 only)</td><td>ip-172-31-94-148.ec2.internal</td></tr><tr><td>Instance state</td><td>Running</td></tr><tr><td>Instance type</td><td>t2.small</td></tr><tr><td>VPC ID</td><td>vpc-04d8ac22bfa3c8ddb</td></tr><tr><td>Subnet ID</td><td>subnet-042ac969831a16f635</td></tr><tr><td>Instance ARN</td><td>arn:aws:ec2:us-east-1:547267286937:instance/i-0c33f221a32b699ba</td></tr><tr><td>Elastic IP addresses</td><td>-</td></tr><tr><td>AWS Compute Optimizer finding</td><td>Opt-in to AWS Compute Optimizer for recommendations. Learn more</td></tr><tr><td>Auto Scaling Group name</td><td>-</td></tr></table>	Instance ID	i-0c33f221a32b699ba (ZabbixServer-Dzakeff)	IPv6 address	-	Hostname type	Answer private resource DNS name	IP name	ip-172-31-94-148.ec2.internal	IPv4 (A)	172.31.94.148	Auto-assigned IP address	54.173.13.11 [Public IP]	IAM Role	-	IMDSv2	Required	Private IP address	172.31.94.148	Public IPv4 address	54.173.13.11 open address	Private IP DNS name (IPv4 only)	ip-172-31-94-148.ec2.internal	Instance state	Running	Instance type	t2.small	VPC ID	vpc-04d8ac22bfa3c8ddb	Subnet ID	subnet-042ac969831a16f635	Instance ARN	arn:aws:ec2:us-east-1:547267286937:instance/i-0c33f221a32b699ba	Elastic IP addresses	-	AWS Compute Optimizer finding	Opt-in to AWS Compute Optimizer for recommendations. Learn more	Auto Scaling Group name	-
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**** Install Zabbix Server, Frontend and Agent ****

6	Donwload repository zabbix-6.0 LTS.	<pre>root@ip-172-31-94-148:~# wget https://repo.zabbix.com/zabbix/6.0/ubuntu/pool/main/z/zabbix-release/zabbix-release_latest+ubuntu24.04_all.deb 2024-08-28 05:57:35-- https://repo.zabbix.com/zabbix/6.0/ubuntu/pool/main/z/zabbix-release/zabbix-release_latest+ubuntu24.04_all.deb Resolving repo.zabbix.com (repo.zabbix.com)... 178.128.6.101, 2604:a880:2:d0::d001 Connecting to repo.zabbix.com (repo.zabbix.com) 178.128.6.101 :443... connected. HTTP request sent, awaiting response... 200 OK Length: 5708 (5.6K) [application/octet-stream] Saving to: 'zabbix-release_latest+ubuntu24.04_all.deb' zabbix-release_latest+ubuntu24.04 100%[=====] 5.57K ---KB/s in 0s 2024-08-28 05:57:35 - 'zabbix-release_latest+ubuntu24.04_all.deb' saved [5708/5708] root@ip-172-31-94-148:~# </pre> <pre>root@ip-172-31-94-148:~# dpkg -i zabbix-release_latest+ubuntu24.04_all.deb Selecting previously unselected package zabbix-release. (Reading database ... 98386 files and directories currently installed.) Preparing to unpack zabbix-release_latest+ubuntu24.04_all.deb ... Unpacking zabbix-release (1:6.0-6+ubuntu24.04) ... Setting up zabbix-release (1:6.0-6+ubuntu24.04) ... root@ip-172-31-94-148:~# --config: zabbix-create-qemu-binaries: warning: /etc/qemu-binaries.d/00-qemu.conf: file does not exist root@ip-172-31-94-148:~# apt update Hit:1 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble InRelease Hit:2 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble-updates InRelease Hit:3 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble-backports InRelease Ign:4 https://repo.zabbix.com/zabbix/6.0/ubuntu noble InRelease Hit:5 http://security.ubuntu.com/ubuntu noble-security InRelease Ign:4 https://repo.zabbix.com/zabbix/6.0/ubuntu noble InRelease Get:4 https://repo.zabbix.com/zabbix/6.0/ubuntu noble InRelease [3217 B] Get:6 https://repo.zabbix.com/zabbix/6.0/ubuntu noble/main Sources [8458 B] Get:7 https://repo.zabbix.com/zabbix/6.0/ubuntu noble/main all Packages [3770 B] Get:8 https://repo.zabbix.com/zabbix/6.0/ubuntu noble/main amd64 Packages [16.5 kB] Fetched 31.9 kB in 16s (1983 B/s) Reading package lists... Done Building dependency tree... Done Reading state information... Done 2 packages can be upgraded. Run 'apt list --upgradable' to see them. root@ip-172-31-94-148:~# </pre>
7	Install zabbix server, frontend, apache2, sql-script dan zabbix-agent.	<pre>No VM guests are running outdated hypervisor (qemu) binaries on this host. root@ip-172-31-94-148:~# apt list zabbix-server-mysql zabbix-frontend-php zabbix-apache-conf zabbix-sql-scripts zabbix-agent Listing... Done zabbix-agent/zabbix,now 1:6.0.33-2+ubuntu24.04 amd64 [installed] zabbix-apache-conf/zabbix,now 1:6.0.33-2+ubuntu24.04 all [installed] zabbix-frontend-php/zabbix,now 1:6.0.33-2+ubuntu24.04 all [installed] zabbix-server-mysql/zabbix,now 1:6.0.33-2+ubuntu24.04 amd64 [installed] zabbix-sql-scripts/zabbix,now 1:6.0.33-2+ubuntu24.04 all [installed] root@ip-172-31-94-148:~# </pre>



** Create and Configure Database RDS **		
8	Choose Database Creation Mode : <i>Standard Create</i>	
9	Machine Database / RDMS : MariaDB 10.11.8	
10	DB Instance Identity Name : DB-Zabbix-nama Ex : DB-Zabbix-abdul	



11	Set Credential Setting. Username : root Password : rootDBpass	<p>▼ Credentials Settings</p> <p>Master username Info Type a login ID for the master user of your DB instance.</p> <p><input type="text" value="root"/> 1 to 16 alphanumeric characters. The first character must be a letter.</p> <p>Credentials management You can use AWS Secrets Manager or manage your master user credentials.</p> <p><input type="radio"/> Managed in AWS Secrets Manager - most secure RDS generates a password for you and manages it throughout its lifecycle using AWS Secrets Manager.</p> <p><input checked="" type="radio"/> Self managed Create your own password or have RDS create a password that you manage.</p> <p><input type="checkbox"/> Auto generate password Amazon RDS can generate a password for you, or you can specify your own password.</p> <p>Master password Info <input type="password"/></p> <p>Password strength Strong</p> <p>Minimum constraints: At least 8 printable ASCII characters. Can't contain any of the following symbols: / " @</p> <p>Confirm master password Info <input type="password"/></p>
12	Free Tier Template and t3.micro Instance	<p>Templates Choose a sample template to meet your use case.</p> <p><input type="radio"/> Production Use defaults for high availability and fast, consistent performance.</p> <p><input type="radio"/> Dev/Test This instance is intended for development use outside of a production environment.</p> <p><input checked="" type="radio"/> Free tier Use RDS Free Tier to develop new applications, test existing applications, or gain hands-on experience with Amazon RDS.</p> <p>Info</p> <p>Instance configuration The DB instance configuration options below are limited to those supported by the engine that you selected above.</p> <p>DB instance class Info</p> <p>▼ Hide filters</p> <p><input checked="" type="checkbox"/> Show instance classes that support Amazon RDS Optimized Writes Info Amazon RDS Optimized Writes improves write throughput by up to 2x at no additional cost.</p> <p><input checked="" type="checkbox"/> Include previous generation classes</p> <p><input type="radio"/> Standard classes (includes m classes)</p> <p><input type="radio"/> Memory optimized classes (includes r and x classes)</p> <p><input checked="" type="radio"/> Burstable classes (includes t classes)</p> <p><input type="text" value="db.t3.micro"/> 2 vCPUs 1 GiB RAM Network: 2.085 Mbps</p>
13	Security Group : default	<p>VPC security group (firewall) Info Choose one or more VPC security groups to allow access to your database. Make sure that the security group rules allow the appropriate incoming traffic.</p> <p><input checked="" type="radio"/> Choose existing Choose existing VPC security groups</p> <p><input type="radio"/> Create new Create new VPC security group</p> <p>Existing VPC security groups <input type="text" value="Choose one or more options"/> <input type="text" value="default X"/></p> <p>Availability Zone Info <input type="text" value="No preference"/></p>



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14	Tampilan DB berhasil di buat	
15	Setting Inbound Rules RDS “SS tampilan inbound rules yang sudah di edit”	
16	Databases Configuration <ul style="list-style-type: none"> • Remote DB • Buat database zabbix • Buat user db-zabbix name : zabbix pass : zabbixDBpass • Grant privileges untuk user db-zabbix <p>** Boleh sertakan lebih dari 1 screenshot.</p>	<pre>root@ip-172-31-94-148:~# mysql -u root -p'rootD8pass' -h db-zabbix-dzakeff.cq8n4lamtims.us-east-1.rds.amazonaws.com Welcome to the MariaDB monitor. Commands end with ; or \g. Your MariaDB connection id is 141 Server version: 10.11.8-MariaDB-log managed by https://aws.amazon.com/rds/ Copyright (c) 2000, 2018, Oracle, MariaDB Corporation Ab and others. Type 'help;' or '\h' for help. Type '\c' to clear the current input statement. MariaDB [(none)]> create database zabbix character set utf8 collate utf8_bin; Query OK, 1 row affected (0.006 sec) MariaDB [(none)]> create user 'zabbix'@'%' identified by 'zabbixDBpass'; Query OK, 0 rows affected (0.011 sec) MariaDB [(none)]> grant all privileges on zabbix.* to 'zabbix'@'%' identified by 'zabbixDBpass'; Query OK, 0 rows affected (0.004 sec) MariaDB [(none)]> flush privileges; Query OK, 0 rows affected (0.006 sec) MariaDB [(none)]></pre>



**** Create Parameter Group and Modify DB RDS ****

17	Create Parameter Group Name : PG-Zabbix-nama Ex : PG-Zabbix-abdul	
18	Ubah value parameter Log_bin_trust_function_creator : 1	
19	Modify db-zabbix : Ubah ke parameter group baru	
20	SS tampilan db-zabbix setelah di modifikasi	
21	Import initial schema and data	 root@ip-172-31-94-148:~# zcat /usr/share/zabbix-sql-scripts/mysql/server.sql.gz mysql -f --default-character-set=utf8mb4 -uzabbix -pzabbixDBpass' -h db-zabbix-dzakeff.cq8h4lam1ms.us-east-1.rds.amazonaws.com zabbix



22	Enter databases host and password Edit file : zabbix_server.conf	<pre>GNU nano 7.2 # Mandatory: no # Default: # PidFile=/tmp/zabbix_server.pid PidFile=/run/zabbix/zabbix_server.pid ### Option: SocketDir # IPC socket directory. # Directory to store IPC sockets used by internal Zabbix services. # # Mandatory: no # Default: # SocketDir=/tmp SocketDir=/run/zabbix ### Option: DBHost # Database host name. # If set to localhost, socket is used for MySQL. # If set to empty string, socket is used for PostgreSQL. # If set to empty string, the Net Service Name connection method is used to connect # the TNS_ADMIN environment variable to specify the directory where the tnsnames.ora # # Mandatory: no # Default: # DBHost=localhost DBHost=db-zabbix-dzakeff.cq8h4lamtlms.us-east-1.rds.amazonaws.com DBPassword=zabbixDBpass </pre>
23	Restart services zabbix-server dan zabbix-agent	<pre>root@ip-172-31-94-148:~# nano /etc/zabbix/zabbix_server.conf root@ip-172-31-94-148:~# systemctl restart zabbix-agent.service root@ip-172-31-94-148:~# systemctl restart zabbix-server.service root@ip-172-31-94-148:~# </pre>
24	Setting date.timezone Asia/Jakarta	<pre>root@ip-172-31-94-148:~# GNU nano 7.2 /etc/zabbix/apache.conf ~ <IfModule mod_php.c> php_value max_execution_time 300 php_value memory_limit 128M php_value post_max_size 16M php_value upload_max_filesize 2M php_value max_input_time 300 php_value max_input_vars 10000 php_value always_populate_raw_post_data -1 </IfModule> <IfModule mod_php7.c> php_value max_execution_time 300 php_value memory_limit 128M php_value post_max_size 16M php_value upload_max_filesize 2M php_value max_input_time 300 php_value max_input_vars 10000 php_value always_populate_raw_post_data -1 php_value date.timezone Asia/Jakarta </IfModule> </Directory> root@ip-172-31-94-148:~# systemctl restart apache2 root@ip-172-31-94-148:~# systemctl enable apache2 Synchronizing state of apache2.service with SysV service script with /usr/lib/systemd/systemd-sysv-install. Executing: /usr/lib/systemd/systemd-sysv-install enable apache2 root@ip-172-31-94-148:~# </pre>
25	Configure Web FrontEnd <ul style="list-style-type: none"> Configure DB connection Type : MySQL DBHost : <Endpoint-rds> User & Password 	<p>ZABBIX</p> <p>Configure DB connection</p> <p>Please create database manually, and set the configuration parameters for connection to this database. Press "Next step" button when done.</p> <p>Database type: MySQL</p> <p>Database host: db-zabbix-dzakeff.cq8h4ls</p> <p>Database port: 0</p> <p>Database name: zabbix</p> <p>Store credentials in: Plain text HashiCorp Vault</p> <p>User: zabbix</p> <p>Password: *****</p> <p>Database TLS encryption: <input checked="" type="checkbox"/></p> <p>Verify database certificate: <input type="checkbox"/></p> <p>Back Next step</p>



- Settings
Zabbix-Monitoring-nama
Asia/Jakarta

Ex : Zabbix-Monitoring-Abdul

The screenshot shows two consecutive steps in the Zabbix setup wizard:

Step 1: Settings
This step allows you to configure basic settings for the Zabbix server. The fields shown are:

- Zabbix server name: Zabbix-Monitoring-Dzakef
- Default time zone: (UTC+07:00) Asia/Jakarta
- Default theme: Blue

Step 2: Install
This step shows the success message after the installation is completed:

Congratulations! You have successfully installed Zabbix frontend.
Configuration file "conf/zabbix.conf.php" created.

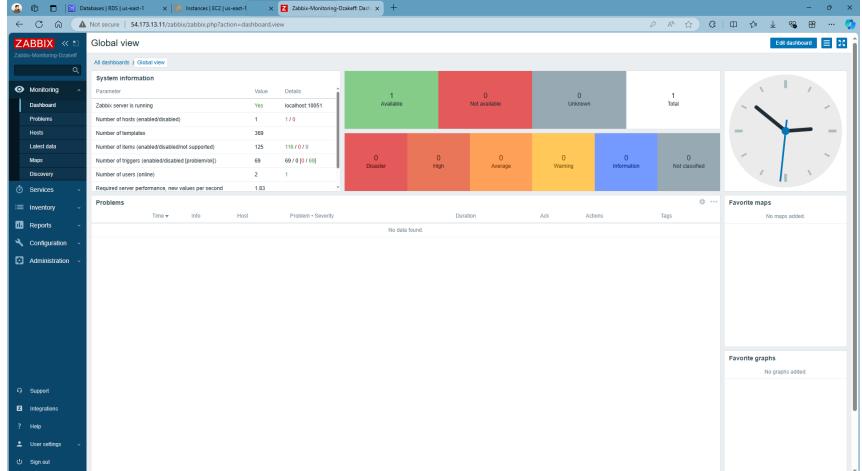
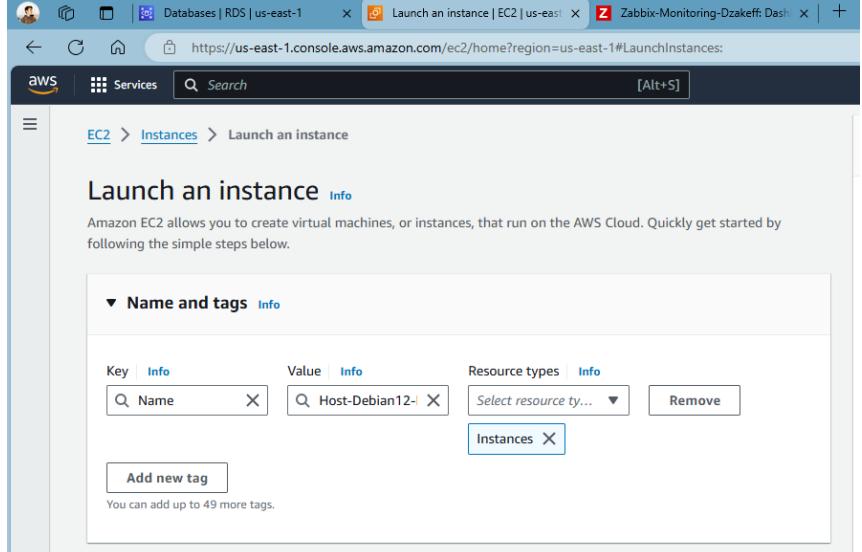
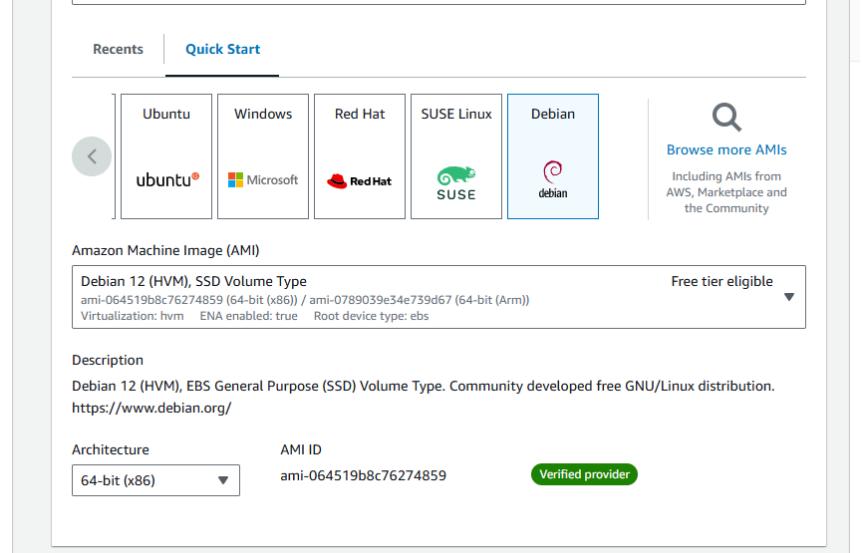
26 Login Web Zabbix Frontend

The screenshot shows the Zabbix web login interface. The user has entered "Admin" as the username and a password. An error message is displayed:

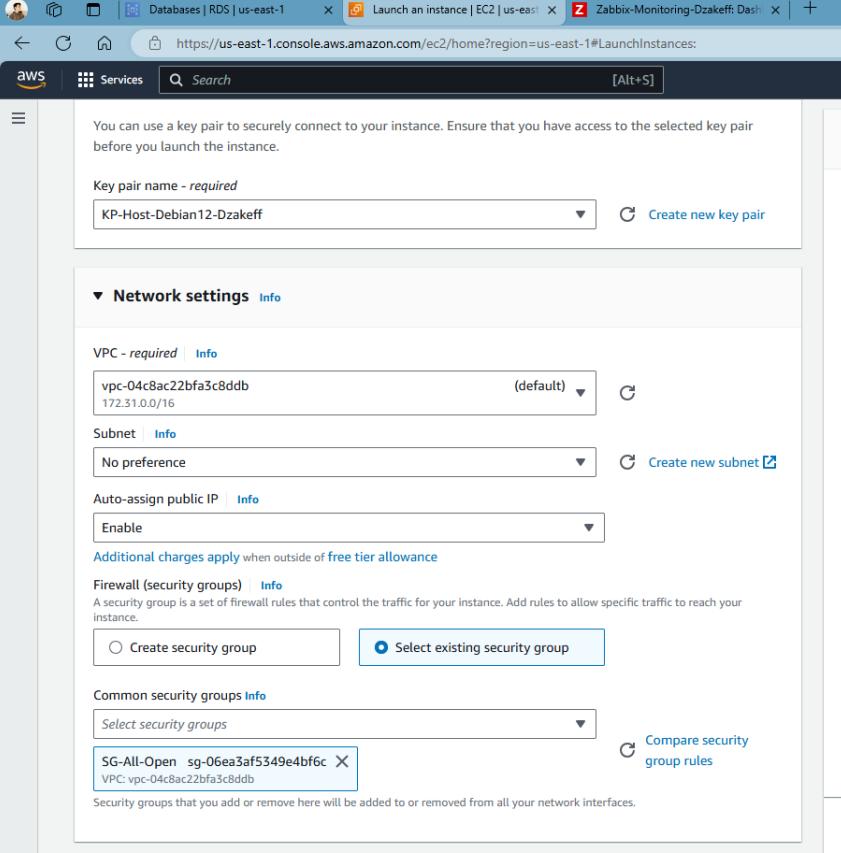
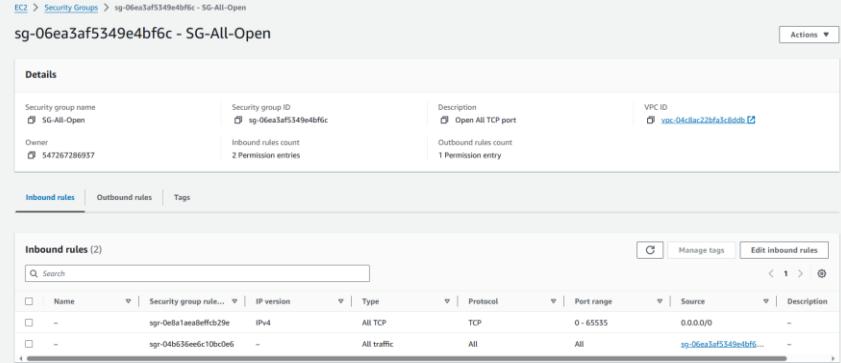
Incorrect user name or password or account is temporarily blocked.

The login form includes fields for Username (Admin), Password (redacted), and a Remember me for 30 days checkbox. A Sign in button is at the bottom.



27	Dashboard Zabbix-FrontEnd	
** Install Linux Host to Monitoring using NMS Zabbix **		
28	Name & Tags Host-Debian11-nama Ex: Host-Debian11-Abdul	
29	AMI/OS Debian 12 (bookworm)	



30	Firewall (Security Group) Existing / pilih yang sudah ada : SG-All-Open	
31	Instance Details Info	
32	Adjust Security Group “SS tampilan inbound rules yang sudah di edit”	



33	Tes ping Host-Debian 11 ke Server Zabbix.	<pre>Debian GNU/Linux comes with ABSOLUTELY NO WARRANTY, to the extent permitted by applicable law. admin@ip-172-31-82-10:~\$ sudo su - root@ip-172-31-82-10:~# ping 172.31.94.148 PING 172.31.94.148 (172.31.94.148) 56(84) bytes of data. 64 bytes from 172.31.94.148: icmp_seq=1 ttl=64 time=2.55 ms 64 bytes from 172.31.94.148: icmp_seq=2 ttl=64 time=1.05 ms 64 bytes from 172.31.94.148: icmp_seq=3 ttl=64 time=0.909 ms 64 bytes from 172.31.94.148: icmp_seq=4 ttl=64 time=0.887 ms 64 bytes from 172.31.94.148: icmp_seq=5 ttl=64 time=0.793 ms ^C --- 172.31.94.148 ping statistics --- 5 packets transmitted, 5 received, 0% packet loss, time 4006ms rtt min/avg/max/mdev = 0.793/1.238/2.549/0.660 ms root@ip-172-31-82-10:~# </pre>
34	Install Zabbix Agent ** Boleh sertakan lebih dari 1 screenshot.	<pre>root@ip-172-31-82-10:~# wget https://repo.zabbix.com/zabbix/6.0/debian/pool/main/z/zabbix-release/zabbix-release_latest+debian12_all.deb --2024-08-28 08:09:34-- https://repo.zabbix.com/zabbix/6.0/debian/pool/main/z/zabbix-release/zabbix-release_latest+debian12_all.deb Resolving repo.zabbix.com (repo.zabbix.com)... 178.128.6.101, 2604:a880:2:d0::2062:d001 Connecting to repo.zabbix.com (repo.zabbix.com) 178.128.6.101 :443... connected. HTTP request sent, awaiting response... 200 OK Length: 3448 (3.4K) [application/octet-stream] Saving to: 'zabbix-release_latest+debian12_all.deb' zabbix-release_latest+debian12_all 100%[=====] 3.37K --.-KB/s in 0s 2024-08-28 08:09:34 (63.5 MB/s) - 'zabbix-release_latest+debian12_all.deb' saved [3448/3448] root@ip-172-31-82-10:~# </pre> <pre>root@ip-172-31-82-10:~# dpkg -i zabbix-release_latest+debian12_all.deb Selecting previously unselected package zabbix-release. (Reading database ... 29493 files and directories currently installed.) Preparing to unpack zabbix-release_latest+debian12_all.deb ... Unpacking zabbix-release (1:6.0-5+debian12) ... Setting up zabbix-release (1:6.0-5+debian12) ... root@ip-172-31-82-10:~# </pre> <pre>Setting up zabbix-release (1:6.0-5+debian12) ... root@ip-172-31-82-10:~# 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] 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 Get:7 https://repo.zabbix.com/zabbix/6.0/debian bookworm InRelease [2877 B] Get:8 https://repo.zabbix.com/zabbix/6.0/debian bookworm/main Sources [19.3 kB] Get:9 https://repo.zabbix.com/zabbix/6.0/debian bookworm/main amd64 Packages [47.5 kB] Get:10 https://repo.zabbix.com/zabbix/6.0/debian bookworm/main all Packages [9780 B] Fetched 79.5 kB in 1s (101 kB/s) Reading package lists... Done Building dependency tree... Done Reading state information... Done All packages are up to date. root@ip-172-31-82-10:~# </pre> <pre>Processing triggers for libc-bin (2.50-9ubuntu1) ... root@ip-172-31-82-10:~# apt list zabbix-agent Listing... Done zabbix-agent/zabbix,now 1:6.0.33-2+debian12 amd64 [installed] N: There are 16 additional versions. Please use the '-a' switch to see them. root@ip-172-31-82-10:~# </pre>



35	<p>Konfig Zabbix Agent Edit file : zabbix_agentd.conf</p> <ul style="list-style-type: none">• Server• ServerActive• Hostname : Host-Debian11-nama <p>Ex: Host-Debian11-abdul</p>	<pre># 1 - AllowKey=system.run[*] # # Mandatory: no ### Option: LogRemoteCommands # Enable logging of executed shell commands as warning # 0 - disabled # 1 - enabled # # Mandatory: no # Default: # LogRemoteCommands=0 ##### Passive checks related ### Option: Server # List of comma delimited IP addresses, optionally # Incoming connections will be accepted only from these # If IPv6 support is enabled then '127.0.0.1', '::1' # and '::/0' will allow any IPv4 or IPv6 address. # '0.0.0.0/0' can be used to allow any IPv4 address # Example: Server=127.0.0.1,192.168.1.0/24,::1,2001 # # Mandatory: yes, if StartAgents is not explicitly set to 1 # Default: # Server= Server=172.31.94.148 ### Option: ListenPort # Agent will listen on this port for connections from # clients. By default port 10051 is used.</pre> <pre>admin@ip-172-31-82-10: ~ GNU nano 7.2 /etc/zabbix/zabbix_agentd.conf * # If Zabbix proxy is specified then Zabbix server/cluster for that proxy should not be specified. # Multiple comma-delimited addresses can be provided to use several independent Zabbix servers. # If port is not specified, default port is used. # IPv6 addresses must be enclosed in square brackets if port for that host is specified. # If port is not specified, square brackets for IPv6 addresses are optional. # If this parameter is not specified, active checks are disabled. Example for Zabbix proxy: # ServerActive=127.0.0.1:10051 Example for multiple servers: # ServerActive=127.0.0.1:20051,zabbix.domain,[::1]:30051,::1,[12fc::1] Example for high availability: # ServerActive=zabbix.cluster.node1;zabbix.cluster.node2:20051;zabbix.cluster.node3:30051 Example for high availability with two clusters and one server: # ServerActive=zabbix.cluster.node1;zabbix.cluster.node2:20051,zabbix.cluster2.node3:30051 # # Mandatory: no # Default: # ServerActive=</pre> <p>ServerActive=172.31.94.148</p>
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	<pre>admin@ip-172-31-82-10: ~ GNU nano 7.2 /etc/zabbix/zabbix_agentd.conf * # # Multiple comma-delimited addresses can be provided to use several independent Zabbix agents. # If port is not specified, default port is used. # IPv6 addresses must be enclosed in square brackets if port for that host is specified. # If port is not specified, square brackets for IPv6 addresses are optional. # If this parameter is not specified, active checks are disabled. # Example for Zabbix proxy: # ServerActive=127.0.0.1:10051 # Example for multiple servers: # ServerActive=127.0.0.1:20051,zabbix.domain,[::1]:30051,::1,[12fc::1] # Example for high availability: # ServerActive=zabbix.cluster.node1;zabbix.cluster.node2:20051;zabbix.cluster.node3:20051 # Example for high availability with two clusters and one server: # ServerActive=zabbix.cluster.node1;zabbix.cluster.node2:20051,zabbix.cluster.node3:20051 # # Mandatory: no # Default: # ServerActive= ServerActive=172.31.94.148 ### Option: Hostname # List of comma delimited unique, case sensitive hostnames. # Required for active checks and must match hostnames as configured on the server. # Value is acquired from HostnameItem if undefined. # # Mandatory: no # Default: # Hostname= Hostname=Host-Debian12-Dzakeff </pre> <pre>admin@ip-172-31-82-10: ~ root@ip-172-31-82-10:~# systemctl restart zabbix-agent.service root@ip-172-31-82-10:~# systemctl enable zabb Failed to enable unit: Unit file zabb.service does not exist. root@ip-172-31-82-10:~# systemctl enable zabbix-agent Synchronizing state of zabbix-agent.service with SysV service script with /lib/systemd/systemd-sysv-install. Executing: /lib/systemd/systemd-sysv-install enable zabbix-agent root@ip-172-31-82-10:~#</pre>
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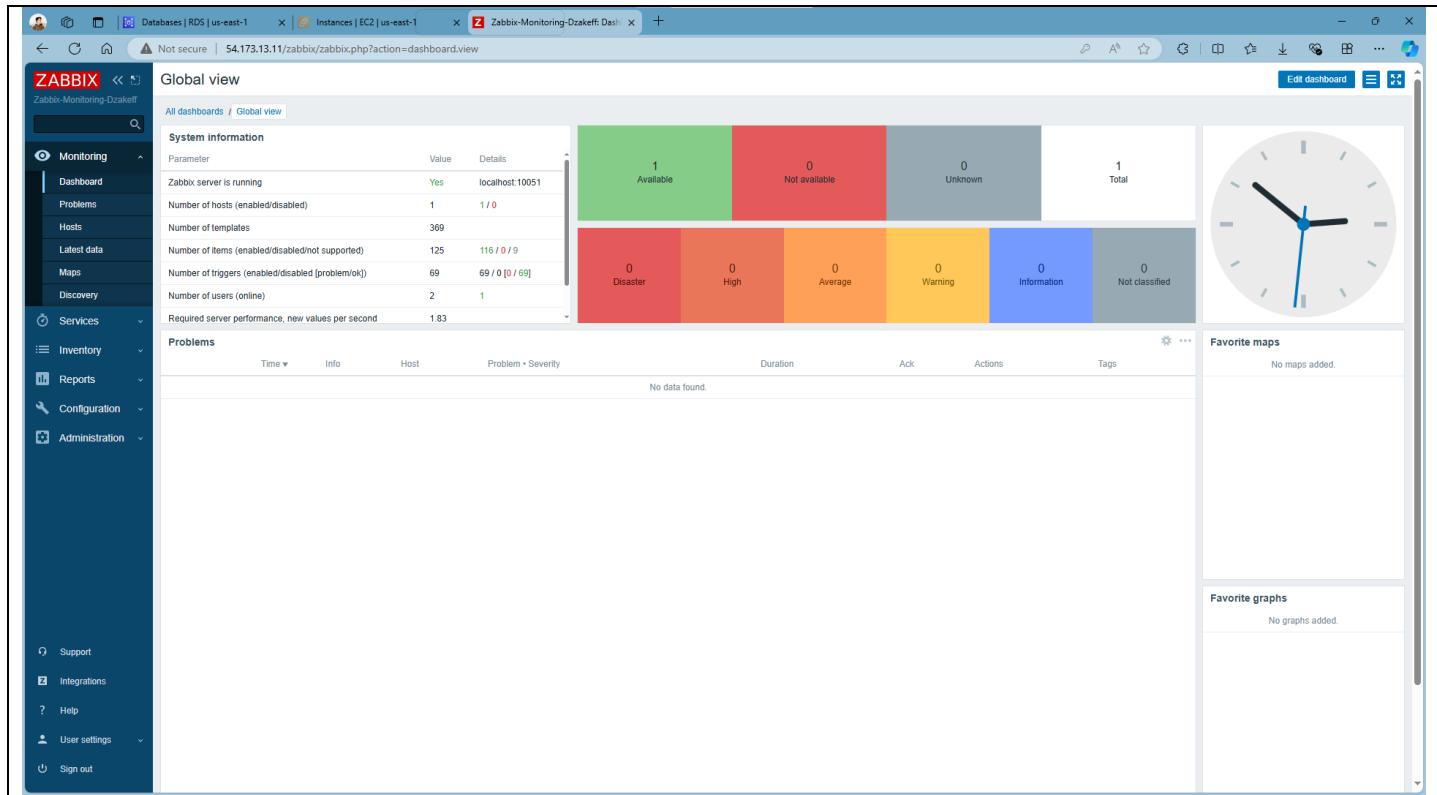
36	<h3>Add Linux Host</h3> <ul style="list-style-type: none"> Hostname : Host-Debian11-nama Template : Linux by Zabbix Agent Group : Linux Servers Interface : IP dan DNS Zabbix agent Description : Alhamdullilah Berhasil 	
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37	<h3>Tampilan Dashboard Zabbix Frontend setelah menambahkan host.</h3>	
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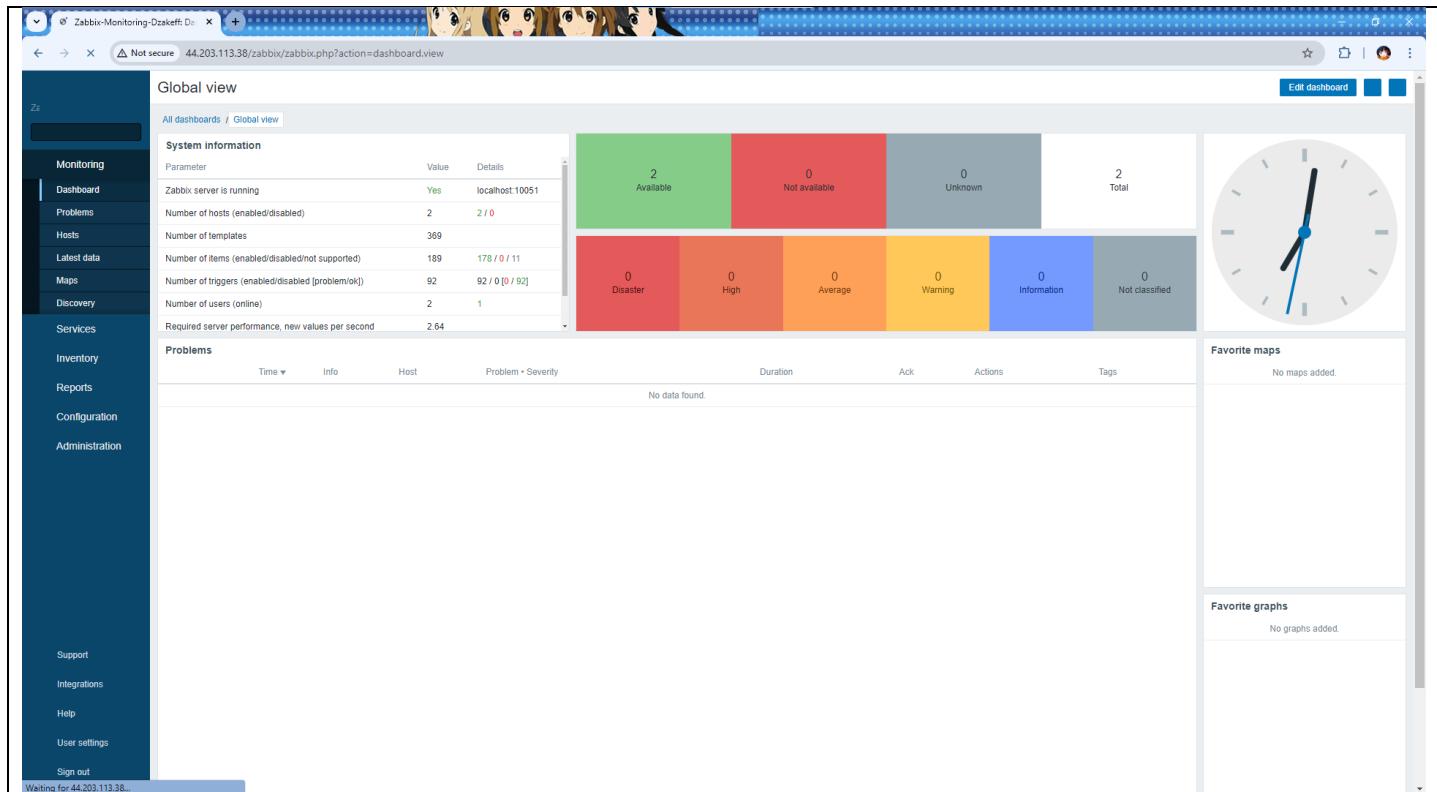


B. Hasil Ujicoba

Screenshot 1 – Tampilan Dashboard Zabbix.



Screenshot 2 – Tampilan Dashboard Zabbix setelah menambahkan Host.





Screenshot 3 – Tampilan Menu Host Zabbix setelah menambahkan Host.

The screenshot shows the Zabbix web interface with the 'Hosts' page selected. On the left, there's a sidebar with various navigation options like Monitoring, Services, Inventory, Reports, Configuration, Administration, Support, Integrations, Help, User settings, and Sign out. The main content area displays a table of hosts:

Name	Interface	Availability	Tags	Status	Latest data	Problems	Graphs	Dashboards	Web
Host-Debian12-Dzakeff	172.31.82.10:10050	ZBX	class: os target: linux	Enabled	Latest data 64	Problems	Graphs 13	Dashboards 2	Web
Zabbix server	127.0.0.1:10050	ZBX	class: os class: software target: linux	Enabled	Latest data 125	Problems	Graphs 30	Dashboards 3	Web

At the bottom right of the table, it says "Displaying 2 of 2 found".

C. Clean Up Lab

1. Terminate Instance EC2.

The screenshot shows the AWS EC2 Instances page. The left sidebar includes options like EC2 Dashboard, EC2 Global View, Events, Console-to-Code, Instances (selected), Instances, Instance Types, Launch Templates, Spot Requests, Savings Plans, Reserved Instances, and Dedicated Hosts. The main content area shows a table of instances:

Name	Instance ID	Instance state	Instance type
ZabbixServer-...	i-0c33f221a32b699ba	Terminated	t2.small
Host-Debian1...	i-05128e3e40a325cc0	Terminated	t2.micro

A green notification bar at the top center says "Successfully initiated termination (deletion) of i-0c33f221a32b699ba,i-05128e3e40a325cc0".



2. Delete DB RDS.

RDS > Databases

i Consider creating a Blue/Green Deployment to minimize downtime during upgrades X

You may want to consider using Amazon RDS Blue/Green Deployments and minimize your downtime during upgrades. A Blue/Green Deployment provides a staging environment for changes to production databases. [RDS User Guide](#) [Aurora User Guide](#)

Databases (1)

Group resources C Modify Actions ▾

Restore from S3 Create database

Filter by databases

< 1 > ⚙️

	DB identifier	Status	Role	Engi...
<input checked="" type="radio"/>	db-zabbix-dzakeff	✖️ Deleting	Instance	MariaD



3. Stop / End Lab Learner Labs.

The screenshot shows the AWS Academy Learner Lab interface. On the left is a sidebar with icons for Account, Dashboard, Courses, Calendar, Inbox, History, and Help. The main area shows a breadcrumb path: ALLv1ID-... > Modules > AWS Acad... > Meluncurkan AWS Academy Learner Lab. Below this is a navigation bar with Home, Start Lab, End Lab, AWS Details, Readme, Reset, and a close button. It also shows "Used \$37 of \$100" and a timer at 00:00. A dropdown menu shows "EN-US". To the right, a large "Learn er Lab" title is displayed, followed by a vertical list of links: Environment Overview, Environment Navigation, Access the AWS Management Console, Region restriction, Service usage and other restrictions, Using the terminal in the browser, Running AWS CLI.

😊 Selamat Mengerjakan 😊