Zabbix Installation on Rocky Linux 9 (Minimal)

This document provides a **complete, step-by-step guide** for installing and configuring **Zabbix Server 6.0 LTS** on **Rocky Linux 9 Minimal ISO** using **MariaDB** and **Apache**.
This setup is suitable for **homelabs, learning, interview preparation, and small environments**.

📌Overview

Components Installed: - Zabbix Server 6.0 LTS - Zabbix Web Frontend (Apache + PHP) - Zabbix Agent - MariaDB (MySQL-compatible database)

Tested OS: - Rocky Linux 9 Minimal ISO

🧱Architecture

Browser → Apache (Zabbix UI) → Zabbix Server → MariaDB
Zabbix Agent → Zabbix Server

🔧Prerequisites

- Fresh Rocky Linux 9 Minimal installation
- Root or sudo access
- Internet connection

🩺Step 1: System Update

```
dnf update -y
reboot
```

🩺Step 2: Disable SELinux (Recommended for Labs)

```
getenforce
```

Edit SELinux config:

```
nano /etc/selinux/config
```

Set:

```
SELINUX=disabled
```

Reboot:

```
reboot
```

Verify:

```
getenforce
```

Expected output:

```
Disabled
```

🩺Step 3: Install Basic Tools

```
dnf install -y nano wget net-tools vim
```

🩺Step 4: Enable Required Repositories

EPEL Repository

```
dnf install epel-release -y
```

Zabbix Official Repository

```
rpm -Uvh https://repo.zabbix.com/zabbix/6.0/rhel/9/x86_64/zabbix-
release-6.0-4.el9.noarch.rpm
dnf clean all
```

Prevent EPEL from conflicting with Zabbix packages:

```
nano /etc/yum.repos.d/epel.repo
```

Add under `[epel]`:

```
exclude=zabbix*
```

🩺Step 5: Install Zabbix Packages

```
dnf install -y zabbix-server-mysql zabbix-web-mysql zabbix-apache-conf zabbix-
sql-scripts zabbix-agent --nobest
```

Verify installation:

```
ls /etc/zabbix/
```

🩺Step 6: Install and Configure MariaDB

```
dnf install mariadb-server -y
systemctl enable --now mariadb
```

Secure MariaDB:

```
mysql_secure_installation
```

Recommended answers: - Set root password → Yes - Remove anonymous users → Yes - Disallow remote root login → Yes - Remove test database → Yes - Reload privileges → Yes

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🩺Step 7: Create Zabbix Database

```
mysql -u root -p
```

```
CREATE DATABASE zabbix CHARACTER SET utf8mb4 COLLATE utf8mb4_bin;
CREATE USER zabbix@localhost IDENTIFIED BY 'C1sc0123';
GRANT ALL PRIVILEGES ON zabbix.* TO zabbix@localhost;
FLUSH PRIVILEGES;
EXIT;
```

🩺Step 8: Import Zabbix Database Schema

```
zcat /usr/share/zabbix-sql-scripts/mysql/server.sql.gz | mysql -u zabbix -p
zabbix
```

Enter password:

```
C1sc0123
```

Successful import produces **no output**.

🩺Step 9: Configure Zabbix Server

```
nano /etc/zabbix/zabbix_server.conf
```

Set:

```
DBPassword=C1sc0123
```

Save and exit.

🩺Step 10: Start and Enable Services

```
systemctl enable --now zabbix-server zabbix-agent httpd php-fpm mariadb
```

Verify:

```
systemctl status zabbix-server
```

Expected:

```
Active: active (running)
```

🩺Step 11: Configure Firewall

```
firewall-cmd --add-service=http --permanent
firewall-cmd --add-port=10051/tcp --permanent
firewall-cmd --reload
```

🩺Step 12: Access Zabbix Web Interface

Open a browser:

```
http://<SERVER-IP>/zabbix
```

Web Installer Settings

Option	Value
Database type	MySQL
Database name	zabbix
User	zabbix
Password	C1sc0123
Zabbix server	localhost
Port	10051

Finish installation.

🔐Default Login Credentials

- **Username:** Admin

- **Password:** zabbix

⚠️Change the password immediately after login.

🔗Verification

Dashboard should show: - Zabbix server is running: **YES**

Check metrics:

```
Monitoring → Hosts → Zabbix server → Latest data
```

🧪Common Troubleshooting

Zabbix server not running

```
tail -f /var/log/zabbix/zabbix_server.log
```

Blank Web Page

```
systemctl restart httpd php-fpm
```

Database Errors

- Verify DB password in `zabbix_server.conf`
- Ensure schema was imported correctly

🗜️Next Steps

- Add Linux / Windows hosts
- Configure email or Telegram alerts
- Create custom dashboards
- Practice Zabbix interview scenarios

📜License

This documentation is provided for **educational and lab purposes**.

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GitHub-ready README documentation