

AIDA Fresh Installation Guide (Step-by-Step)

This guide provides complete steps to perform a fresh installation of **AIDA** on a **Ubuntu 22.04.05 LTS** machine.

1. Install Ubuntu OS

Install **Ubuntu 22.04.05 LTS** (minimal or full installation is fine).

After installation,

Check serial number:

If you are using a ****VM****, run the following command to get the system UUID

```
sudo dmidecode -string system-uuid
```

.

If you are not using ****VM**** run following command to get system serial

```
sudo cat /sys/class/dmi/id/board_serial
```

Please provide this value to ****MHT**** before moving forward with the next steps

After providing serial number to MHT, proceed as below:

```
sudo apt update  
sudo apt upgrade -y
```

2. Install Required Packages

Apache2 Web Server

```
sudo apt install apache2  
sudo systemctl start apache2  
sudo systemctl enable apache2
```

MariaDB Server + Client

```
sudo apt install mariadb-server mariadb-client
sudo systemctl enable mariadb
sudo systemctl start mariadb
```

Beanstalkd

```
sudo apt install -y beanstalkd
sudo systemctl enable beanstalkd.service
sudo systemctl start beanstalkd.service
```

3. Install PHP 7.4 and Modules

Add PHP Repository

```
sudo add-apt-repository ppa:ondrej/php
sudo apt update
sudo apt upgrade
```

Install PHP 7.4 + Extensions

```
sudo apt install php7.4
sudo apt install php7.4-cli php7.4-fpm php7.4-json php7.4-pdo php7.4-mysql
php7.4-zip php7.4-gd php7.4-mbstring php7.4-curl php7.4-xml php7.4-bcmath
php7.4-json
```

Install PHP Apache Module

```
sudo apt install libapache2-mod-php7.4
sudo a2enmod proxy_fcgi setenvif
sudo a2enconf php7.4-fpm
sudo systemctl restart apache2
```

4. Install Utility Tools

```
sudo apt install unzip
sudo apt install screen
sudo apt install net-tools
```

5. Secure MySQL Installation

Run:

```
sudo mysql_secure_installation
```

Follow prompts: - Existing root password: *(press enter)* - Set root password? **Y** → use password: [ROOT_PASSWORD] - Remove anonymous users: **Y** - Disallow root remote login: **Y** - Remove test database: **Y** - Reload privilege tables: **Y**

6. Change MySQL Root Plugin

Login:

```
sudo mysql -u root -p  
# Enter: [ROOT_PASSWORD]
```

Restart MySQL:

```
sudo service mysql restart
```

Test login without sudo:

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

Should work.

7. Create User 'inx'

```
sudo adduser inx  
sudo usermod -aG sudo inx
```

Use any password.

8. Install Composer (Needed for SNS Client)

```
sudo apt install composer
```

9. Install IoT Core Requirements

```
sudo apt install python3-pip
```

10. Install CodeDeploy Agent

```
sudo apt update  
sudo apt install ruby-full  
sudo apt install wget  
sudo apt install awscli
```

```
## **11. Assign New User to Inspector (After Clone)**
```

```
Navigate:
```

```
cd /etc/codedeploy-agent/conf
```

```
sudo nano codedeploy.onpremises.yml
```

Replace fields with credentials provided by MHT if you don't have it make sure to ask it from MHT before you proceed:

```
aws_access_key_id: KEY_ID
```

```
aws_secret_access_key: KEY_SECRET
```

```
iam_user_arn: "ARN_USER"
```

```
region: us-east-2
```

```
Save: **Ctrl + O**, exit: **Ctrl + X**
```

```
Restart:
```

```
sudo service codedeploy-agent stop
```

```
aws configure
```

Enter credentials provided by MHT.

Run registration line provided by MHT

```
Start again:
```

```
sudo service codedeploy-agent start
```

```
## **12. Fix Library Issues for Inspector**
```

```
sudo ln -s /usr/lib/x86_64-linux-gnu/libcбор.so.0.8.0 /usr/lib/x86_64-linux-gnu/libcбор.so.0.6
```

```
sudo wget http://archive.ubuntu.com/ubuntu/pool/main/o/openssl/libssl1.1\_1.1.0g-2ubuntu4\_amd64.deb
```

```
sudo dpkg -i libssl1.1_1.1.0g-2ubuntu4_amd64.deb
```

```
---
```

```
## **13. Final Required Permissions**
```

```
sudo chmod -R 755 /home/inx/.aws/
```

```
sudo cp -R /home/inx/.aws /var/www/
```

Edit sudoers:

```
sudo visudo
```

Add below lines towards end of file.

```
inx ALL=(ALL) NOPASSWD: ALL
```

```
www-data ALL=(ALL) NOPASSWD: ALL
```

```
## **14. Install AIDA Release Bundle**
```

```
wget https://aida-controller-release-bundles.s3-us-east-2.amazonaws.com/aida-release-version\_latest.tar.gz
```

```
rm -Rf aida-release-version
```

```
tar -xvf aida-release-version_latest.tar.gz
```

```
cd aida-release-version/
```

```
sudo ./installBundle.sh
```

Installation Complete**

Your AIDA installation is now fully configured and ready for commissioning.