

# mobile device management (MDM)

Sito di riferimento: <https://h-mdm.com/>

## Installazione server

```
ubuntu@h-mdm:~$ sudo apt update
ubuntu@h-mdm:~$ sudo apt install openjdk-8-jdk aapt tomcat8 postgresql
ubuntu@h-mdm:~$ sudo apt install unzip

ubuntu@h-mdm:~$ wget https://h-mdm.com/files/hmdm-3.30-install-ubuntu.zip
ubuntu@h-mdm:~$ unzip hmdm-3.30-install-ubuntu.zip
```

## Preparazione database

```
# su - postgres
$ psql
postgres=# CREATE USER hmdm WITH PASSWORD 'password';
postgres=# CREATE DATABASE hmdm WITH OWNER=hmdm;
postgres=# \q
```

### check database

```
# Bisogna specificare -h localhost, altrimenti effettua
# una peer authentication, che fallisce perché non esiste
# hmdm negli utenti di sistema
psql -U hmdm -W -h localhost
```

## Installazione

```
ubuntu@h-mdm:~/hmdm-install$ sudo ./hmdm_install.sh
Please choose the installation language (en/ru) [en]: en

PostgreSQL database setup
=====
Make sure you've installed PostgreSQL and created the database:
# CREATE USER hmdm WITH PASSWORD 'topsecret';
# CREATE DATABASE hmdm WITH OWNER=hmdm;

PostgreSQL host [localhost]: localhost
PostgreSQL port [5432]: 5432
PostgreSQL database [hmdm]: hmdm
PostgreSQL user [hmdm]: hmdm
PostgreSQL password: password
```

```

File storage setup
=====
Please choose where the files uploaded to Headwind MDM will be stored
If the directory doesn't exist, it will be created
##### FOR TOMCAT 9, USE SANDBOXED DIR: /var/lib/tomcat9/work #####

Headwind MDM directory [/opt/hmdm]: /opt/hmdm

Web application setup
=====
Headwind MDM requires access from Internet
Please assign a public domain name to this server

Protocol (http|https) [http]: http
Domain name or public IP (e.g. example.com): mdm.csgalileo.org
Port (leave empty for default ports 80 or 443): 8080
Project path on server or ROOT [/hmdm]: /hmdm
Tomcat virtual host [localhost]: localhost

Ready to install!
Location on server: /opt/hmdm
URL: http://mdm.csgalileo.org:8080/hmdm
Is this information correct [Y/n]? Y

Tomcat config file created:
/var/lib/tomcat8/conf/Catalina/localhost//hmdm.xml
Deploying hmdm-3.30.1-os.war to Tomcat: /var/lib/tomcat8/webapps//hmdm.war
.....
Deployment successful, initializing the database...

=====
Headwind MDM has been installed!
To continue, open in your web browser:
http://mdm.csgalileo.org:8080/hmdm
Login: admin:admin

```

Entrato ho cambiato la password di admin in Euro...

Il pushing dei messaggi (se si seleziona MQTT) ha bisogno della porta 31000 (TCP) aperta. Inoltre, dietro NAT, modificare /etc/hosts

```
IP_PRIVATO mdm.csgalileo.org
```

Per verifica, controllare i log dopo il riavvio di tomcat: se non compare qualcosa come

```

2020-12-03 09:27:02 [ERROR]
com.hmdm.notification.guice.module.NotificationMqttTaskModule : Failed to
create MQTT broker service
java.io.IOException: Failed to bind to server socket:
mqtt://94.230.76.87:31000 due to: java.net.BindException: Cannot assign
requested address (Bind failed)

```

l'MQTT è impostato correttamente. Ad ogni modo la configurazione di questo bind è in `/var/lib/tomcat8/conf/Catalina/localhost/hmdm.xml`

```
<code xml> <Parameter name="mqtt.server.uri" value="mdm.csgalileo.org:31000"/> </code>
```

==== Client  
==== Entrato nel telefono senza registrarsi a google o altro account. Aperto chrome e andato su <https://h-mdm.com/download/> Scaricato l'apk Android application (launcher) seguito istruzioni in <https://h-mdm.com/quick-start/> Come server Url ho dato <http://94.230.76.87:8080/hmdm> Quando ho finito ho cliccato su home (0) e mi ha chiesto se volevo confermare mdm come launcher. Dopo di che il pallino verde è apparso

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