

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

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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`

```
<!-- MQTT notification service parameters -->  
<Parameter name="mqtt.server.uri" value="mdm.csgalileo.org:31000"/>
```

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 du home (O) e mi ha chiesto se volevo confermare mdm come launch.

Dopo di che il pallino verde è apparso

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