

# Backup and Restore Procedures

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## Backup procedure

### Purpose

The purpose of this document is to illustrate the Pandora FMS [appliance](#) backup and restore procedures.

### Database backup

Firstly, make a backup of the existing database. There are two methods available to make such backup.



If a history database is used, perform its backup as well.

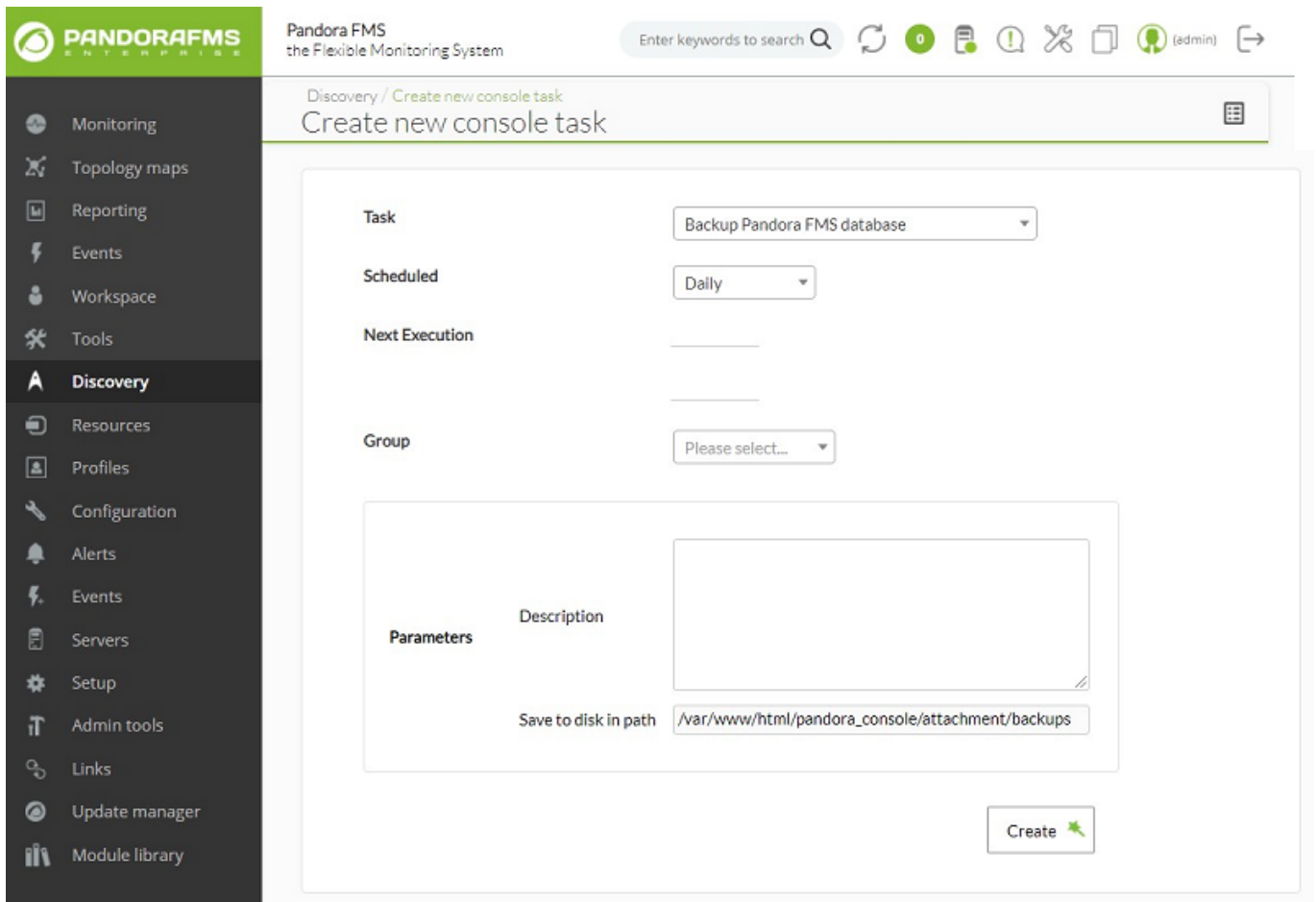
### Manual backup

Open a terminal window with the appropriate user credentials and enter the following commands (enter the access credentials for the database):

```
mysqldump -u <pandora_db_user> -p <pandora_db_name> | gzip>  
pandoradb.sql.gz  
<enter the password in console>
```

### Pandora FMS Database Backup utility

Pandora FMS permite realizar de forma periodica un *backup* de la base de datos que podremos programar en **Discovery > New console task** y seleccionando en el desplegable “**Backup Pandora FMS database**”.



To create a new database backup:

- Select the backup frequency or one-time with “Not scheduled”.
- Select exactly when the “Next execution” backup task will be started.
- You need to indicate the content of which groups to support (or select all “All”).
- By default it is stored in /var/www/html/pandora\_console/attachment/backups but you can specify any directory to which you have write and read rights.

Once you have finished filling in the fields, click on the Create button.

## Configuration files backup

In order to backup Pandora FMS's agents and server configuration files, type in:

```
tar -pcvzf pandora_configuration.tar.gz /etc/pandora/*.conf
```

## Agent backup

The agent folder must also be backed-up. This is very important to keep deployed collections and agent plugins.

```
tar -pcvzf agent.tar.gz /usr/share/pandora_agent
```

## Server backup

### Server plugins

Server plugin default folder is under `/usr/share/pandora_server` (the main Pandora FMS's server folder).

**Caution:** If you have server plugins placed in other folders, back them up as well.

```
tar -pcvzf pandora_server.tar.gz /usr/share/pandora_server
tar -pcvzf my_plugin_folder.tar.gz /home/myuser/my_plugin_folder
```

### Remote configuration

Remote configuration file and collection backup must be performed in order to keep the remote agent's usual performance

```
tar -pcvzf collections.tar.gz /var/spool/pandora/data_in/collections
tar -pcvzf md5.tar.gz /var/spool/pandora/data_in/md5
tar -pcvzf remote_agents_conf.tar.gz /var/spool/pandora/data_in/conf
```

### Console backup

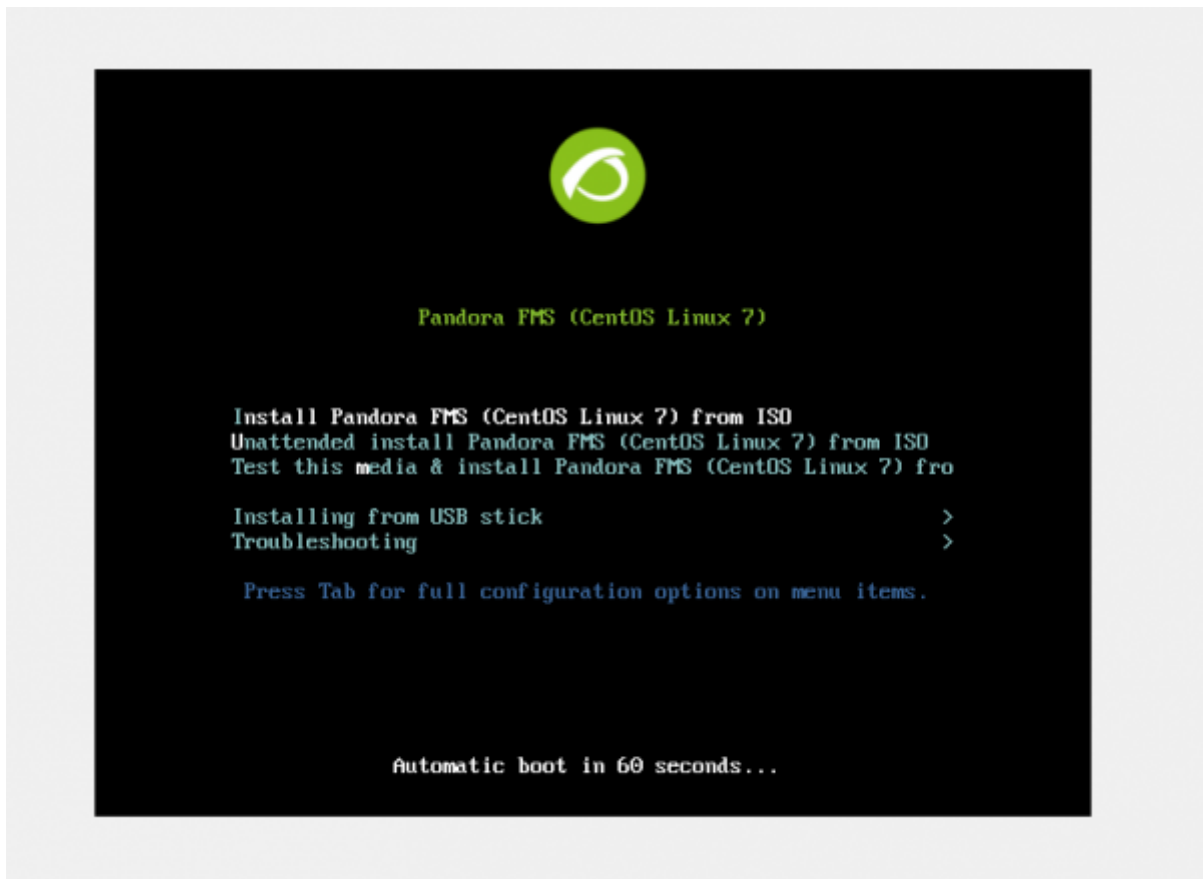
Later on, perform a console backup, to keep custom images, extensions, and more.

```
tar -pcvzf pandora_console.tar.gz /var/www/html/pandora_console
```

## Restore procedure

### Install the appliance

Insert the CD in your system and press a key in the boot screen. The boot menu will be displayed then. The Appliance can be found in the [download](#) section.



If you select “Install” (Text mode), the installation will be performed in text mode. However, if the Install option is selected, the graphical installation will start (recommended). Choose between one of these two options, and reboot the machine after the installation. Detailed instructions are available at [this link](#).

## Database restore



If you use a history database, restore it as well.

## Manual restore

Make sure that your database is up and running, and the Pandora FMS's server and agent are shut down.

```
[root@localhost ~]# /etc/init.d/mysqld start
Starting mysqld: [ OK ]
[root@localhost ~]# /etc/init.d/pandora_server stop
Stopping Pandora FMS Server
[root@localhost ~]# /etc/init.d/pandora_agent_daemon stop
Stopping Pandora Agent.
```



From version NG 754 onwards, [additional options are available for manual startup and shutdown](#) of High Availability (HA) environments.

Then, restore the database

```
[root@localhost ~]# gunzip pandora.sql.gz
[root@localhost ~]# cat pandoradb.sql | mysql -u root -p pandora
Enter password: <enter the password in console>
```

Furthermore, the recovery can be performed in the following way.

```
mysql -u root -p pandora
create database pandora;
use pandora;
source PATH BACKUP;
```



The database to be created must have the same name as the backed-up database.

## Configuration file restore

First, restore agent and server configuration files:

```
[root@localhost ~]# tar -zxvf pandora_configuration.tar.gz -C /
```

## Agent restore

Now, restore the agent directory.

```
[root@localhost ~]# tar -zxvf agent.tar.gz -C /
```

## Server restore

### Server plugins

Restore the Pandora FMS server main folder, and every other plugin folder that you may have.

```
[root@localhost ~]# tar -zxvf pandora_server.tar.gz -C /  
[root@localhost ~]# tar -zxvf my_plugin_folder.tar.gz -C /
```

## Remote configuration

Remote configuration file and collection restore must be performed in order to keep the remote agent's usual performance.

```
[root@localhost ~]# tar -zxvf collections.tar.gz -C /  
[root@localhost ~]# tar -zxvf md5.tar.gz -C /  
[root@localhost ~]# tar -zxvf remote_agents_conf.tar.gz -C /
```

## Console restore

Next, restore the console to keep your custom images, extensions, and more.

```
[root@localhost ~]# tar -zxvf pandora_console.tar.gz -C /
```

## Starting Pandora FMS server and agent

The last step is to start the Pandora FMS server, and agent.

```
[root@localhost ~]# /etc/init.d/pandora_server start  
[root@localhost ~]# /etc/init.d/pandora_agent_daemon start
```

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