

# Setup & Configuration

We need to install the service through Portainer and configure any necessary settings.

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# Preparation

There are some things we need to do in preparation to install this service.

## Volumes

### Persistent Data

This is where the service will store its own application data and ensures we can quickly update the service image.

Ensure your user has permissions to access the folder.

### Media Folders

This service will need access to the folders where you store your media files.

Ensure your user has permissions to access the folder.

## Environment

### TZ

This is the current time zone formatted using the [tz database](#).

*For example: America/Vancouver*

### PUID

This is the numeric ID of the user account on Debian. If you are unsure, open a terminal and run:

```
id -u
```

## PGID

This is the numeric ID of the user account's group on Debian. If you are unsure, open a terminal and run:

```
id -g
```

# Hardware Acceleration

You will need to [perform additional steps to attach some graphics cards](#) to Docker containers.

## Intel Embedded Graphics

Modern Intel processors have an embedded graphic processor that can be used for hardware acceleration within this container.

## AMD Graphics

AMD and ATI graphic cards can be used for hardware acceleration within this container [after an initial setup](#).

## Nvidia Graphics

Nvidia graphics cards can be used for hardware acceleration within this container [after an initial setup](#).

# Installation

The service can be installed through the Portainer web interface.

Learn about [creating a new stack](#).

## Docker Compose

### Intel and AMD Graphics

Use the following code to install the service:

```
---
services:
  jellyfin:
    image: lscr.io/linuxserver/jellyfin:latest
    container_name: jellyfin
    network_mode: bridge
    environment:
      - PUID=1000
      - PGID=1000
      - TZ=America/Vancouver
    volumes:
      # Persistent Data
      - /srv/jellyfin:/config

      # Media Folders
      - /mnt/movies:/mnt/movies
      - /mnt/television:/mnt/television
      - /mnt/music:/mnt/music
      - /mnt/books:/mnt/books
    devices:
      - /dev/dri:/dev/dri
    ports:
```

```
- 8096:8096
- 8920:8920
- 7359:7359/udp
- 1900:1900/udp
restart: unless-stopped
```

# Nvidia Graphics

Use the following code to install the service:

```
---
services:
  jellyfin:
    image: lscr.io/linuxserver/jellyfin:latest
    container_name: jellyfin
    network_mode: bridge
    runtime: nvidia
    environment:
      - PUID=1000
      - PGID=1000
      - TZ=America/Vancouver
      - NVIDIA_VISIBLE_DEVICES=all
    volumes:
      # Persistent Data
      - /srv/jellyfin:/config

      # Media Folders
      - /mnt/movies:/mnt/movies
      - /mnt/television:/mnt/television
      - /mnt/music:/mnt/music
      - /mnt/books:/mnt/books
    ports:
      - 8096:8096
      - 8920:8920
      - 7359:7359/udp
      - 1900:1900/udp
    restart: unless-stopped
```



# Updating

## Re-Deploy the Stack

This service has been optimized for running in Docker thanks to [LinuxServer.io](#).

This allows you to [re-deploy the stack through Portainer](#) to download the latest updates.