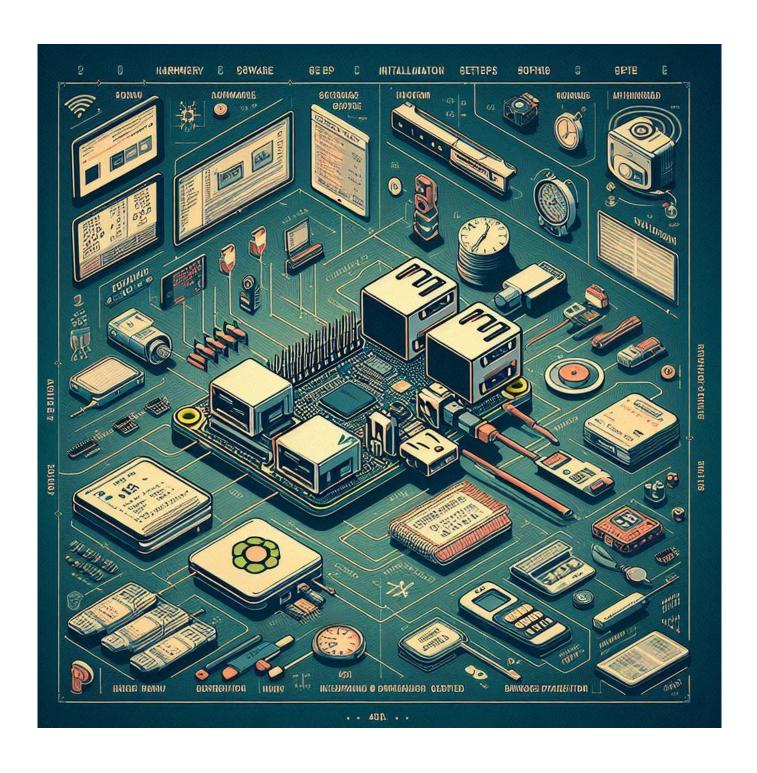
## RASPBERRY PI MEDIA CENTER



This project outlines the creation of a home media server using the Raspberry Pi Zero 2 W

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## **ABSTRACT**

This project outlines the creation of a home media server using the Raspberry Pi Zero 2 W, a compact and cost-effective single-board computer. The aim is to provide a guide for enthusiasts interested in setting up their own media server for streaming and accessing multimedia content within their home network. The guide covers the essential steps required to establish the media server, including hardware setup, software installation, and configuration. Key components such as the Raspberry Pi Zero 2 W, MicroSD card, power supply, and external storage are identified as necessary materials. Instructions are provided for initial setup tasks such as flashing the MicroSD card with the Raspberry Pi OS Lite image, configuring network connectivity, and enabling SSH access. The process of updating and upgrading the system software is also outlined to ensure the installation of the latest packages. The project discusses various media server software options, including Plex, Emby, and Jellyfin, and provides guidelines for installation and configuration. Emphasis is placed on mounting external storage devices and configuring the media server software to access multimedia content stored on the external drive. Once the media server is set up and running, users can access their media library from any device connected to the home network, allowing for convenient streaming and playback of videos, music, and other multimedia content. Overall, this project serves as a practical guide for enthusiasts looking to leverage the Raspberry Pi Zero 2 w to create a versatile and affordable home media server solution.

KEYWORDS: Raspberry Pi Zero 2 w, Cloud, Media Server, SSH, Multimedia