

ABSTRACT

Intensity use of gadgets by modern society, could be rateable by the need of the storages. One of the device called NAS (Network Attached Storage), an open share storage which the users are connected each other in one simple network in order to share thier data.

NAS in general has large size in terms of shape and electricity, so in this final project, it will implement a system called Portable NAS that hasmore flexibility in order to use it, because the connectivity are wireless based, Computing system is using Raspberry pi Zero, the use of power bank for the electricity need, also using SMB file sharing application for the need of clients to use it.

For the performance, it will get the trial of its transfer rate based on distances, also the capability of managing clients in real time, where the final goals are to see the connectivity quality, efficiency and effectivity of the battery powered portable NAS with Raspberry pi Zero.

Keywords: NAS, Raspberry pi, Samba, Portable, Storage, Server