

PRIVATE CLOUD STORAGE SYSTEM

C.Natarajan,

Final Year B.Tech(IT),

Department of Information Technology,
Paavai Engineering College, Namakkal, Tamil Nadu.

B.Venkatesan,

Associate Professor,

Department of Information Technology,
Paavai Engineering College, Namakkal, Tamil Nadu.

S.Rajesh,

Associate Professor,

Department Of Computer Science,
Paavai Engineering college, Namakkal., Tamil Nadu.

Abstract: Cloud storage is a model of computer data storage in which the digital data is stored in logical pools. Cloud storage services can be accessed through OWNCLOUD API (Application Program Interface). OWNCLOUD is a suite of client-server software for creating and using file hosting services. OWNCLOUD is free and open-source, and thereby allowing anyone to install and operate it without charge on a private server.

Keyword: Linux Operating System (UBUNTU 18.04). OWNCLOUD API. Ngrok (Port Forwarding).

I. INTRODUCTION:

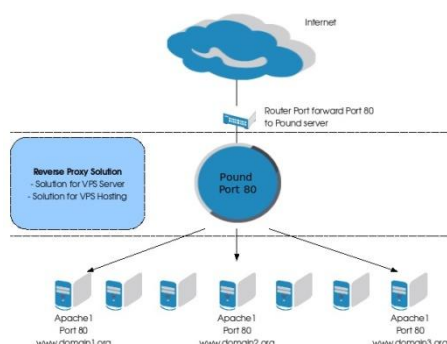
In our project we are going to develop our own Private Cloud Storage using Linux server. Our private cloud adoption will help us to reduce costs in many areas. An important objective is reduction of operational costs, which we can achieve by choosing a low-maintenance platform. Because of the usage of linux server the security is high.

II. OUR INOVATION

The development of private cloud storage is cost efficient and it is fully based on an open source components. Here no need to develop a specific server for a cloud. Because linux operating system contains inbuilt web server in it (Apache server). Regular maintenance of a server is not required. Port forwarding are enabled without any cost.

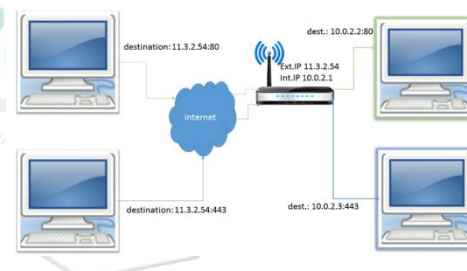
III. DEVELOPMENT PROCESS

Linux is a family of free and open-source software operating systems based on the Linux kernel. Ubuntu is a free and open-source Linux distribution based operating system. A Linux server is a high-powered variant of the Linux open source operating system that's designed to handle the more demanding needs of business applications such as network and system administration, database management and Web services.



IV. PORT FORWARDING

In computer networking, **port forwarding** or **port mapping** is an application of network address translation (NAT) that redirects a communication request from one address and **port** number combination to another while the packets are traversing a network gateway, such as a router or firewall.



V. OWN CLOUD AND NGROK

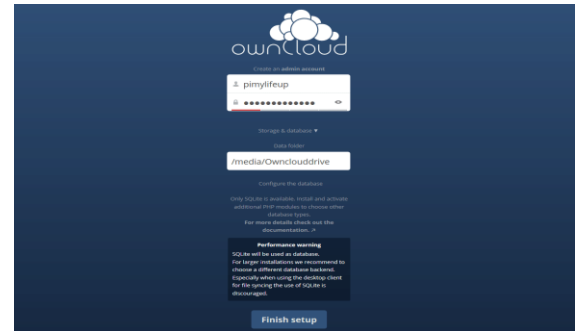
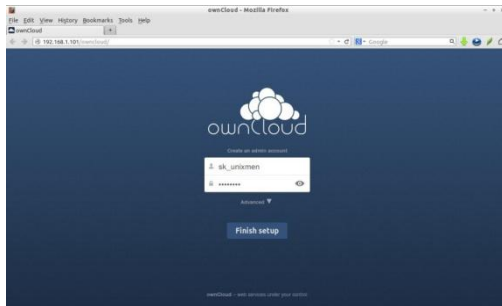
OWNCLOUD is a suite of client-server software for creating and using file hosting services. Ngrok is a multiplatform tunnelling, reverse proxy software that establishes secure tunnels from a public endpoint such as internet to a locally running network service.



VI. LINUX OS IN OWN CLOUD API

- ❖ Ubuntu. If you've researched Linux on the internet, it's highly probable that you have come across Ubuntu.
- ❖ Linux Mint Cinnamon. For years, Linux Mint has been the number one Linux distribution on Distrowatch.

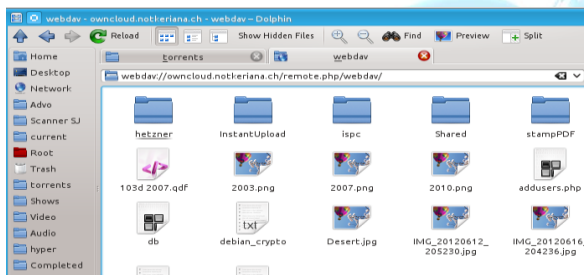
- ❖ Zorin OS. A majority of computer users are Windows users.
- ❖ Elementary OS



VII. APPLICATION

Easy to setup the cloud storage. Private Server and Cloud access. Unlimited expandable storage. Easy to share with other users. Long range connectivity without any complex. Less maintenance. We can also create a portable cloud storage system by using Raspberry Pi module.

VIII.OUTPUT



IX. CONCLUSION

This paper has presented a unique vision of the concepts which are used in this particular field. It aims to promote technology innovation to achieve a reliable and efficient outcome from the various instruments. Experimental work has been carried out successfully in this experiment.

X.REFERENCE

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