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IP BASED DATA EXCHANGE USING CENT OS

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ABSTRACT: This project Network Telephony, is used to make free calls and messaging through intranet.It may be used in institutions and companies to avoid their intercom billing.It is based on Client-Server system.

I.INTRODUCTION 1.1 LOCAL AREA NETWORK

A local area network (LAN) is a computer network that interconnects computers within a limited area such as a home, school, computer laboratory, or office building, using network media. The defining characteristics of LANs, in contrast to wide area networks (WANs), include their smaller geographic area, and non-inclusion of leased telecommunication lines.

A design goal will be to keep management traffic off the production network, to eliminate the possibility that it could be intercepted in transit. Ideally, would configure each device with a physical port on the management VLAN. If this is not possible because of physical or other limitations, management should be encrypted. In practice, the concept was marred by proliferation of incompatible physical layer and network protocol implementations, and a plethora of methods of sharing resources. Typically, each vendor would have its own type of network card, cabling, protocol, and network operating system.

The network operating system named CentOS (Community Enterprise Operating System) is a Linux distribution that attempts to provide a free, enterprise-class, community-supported computing platform which aims to be functionally compatible with its upstream source. As of versions 5.10 and 6.5, CentOS officially supports x86-64 and x86 architectures with Physical Address Extension (PAE) is a beta release is expected to be available for the Power PC architecture.

RHEL is available only through a paid subscription service that provides access to software updates and varying levels of technical

support. The product is largely composed of software packages distributed under free software licenses and the source code for these packages is made public by Red Hat. CentOS developers use Red Hat's source code to create a final product very similar to RHEL. Red Hat's branding and logos are changed because Red Hat does not allow them to be redistributed. CentOS is available free of charge. Technical support is primarily provided by the community via official mailing lists, web forums, and chat rooms.

Red Hat but aspires to be more public, open, and inclusive. Red Hat employs most of the CentOS head developers, the CentOS project itself relies on donations from users and organizational sponsors. A new CentOS version is released approximately and each CentOS version is periodically updated to support newer hardware. The results in a secure, low-maintenance, reliable, predictable and reproducible Linux environment.

The topology has been defined at building security into our network elements and configurations. Design calls for segmenting the network into subnets based on function and, possibly, location. By implementing routing at the at the network core, segments are isolated into individual broadcast domains. This improves performance and also improves security by preventing sniffing based attacks between segments.

II.PROBLEM DESCRIPTION

2.1 EXISTING SYSTEM

Existing work with telephony is the field of technology involving the development of communication services. Telephony' in Networks is referred as

Network Telephony. In existing system, we need to get the intercom service and VOIP based services from vox, Lingo, BSNL, skype etc. To get this service we must pay some amount for the service depends upon our needs.

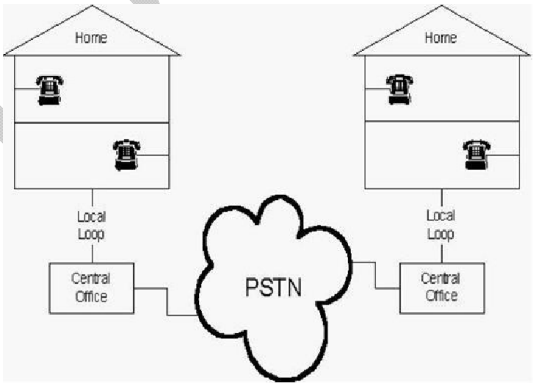


Fig.2.1 Public Switch Telephone Network

2.1 DRAWBACKS OF THE EXISTING SYSTEM

- In existing system only voice calls can be made.
- The server can be managed easily by using the Web browser.
- Creating intercom connections using telephone

lines incur cost and rent is to be paid for intercom Connection.

2.2. PROPOSED SYSTEM

- In proposed system, an intercom connection is created freely by using the intranet itself.
- It doesn't incur any cost for making calls.
- In this system,voice call, videocall and conference call on both voice and video call can be made.

- ✓ Processor - Pentium –IV
- ✓ Speed - 1.1 Ghz
- ✓ RAM - 256 MB(min)
- ✓ Hard Disk - 20 GB
- ✓ Key Board - Keyboard
- ✓ Mouse - Mouse

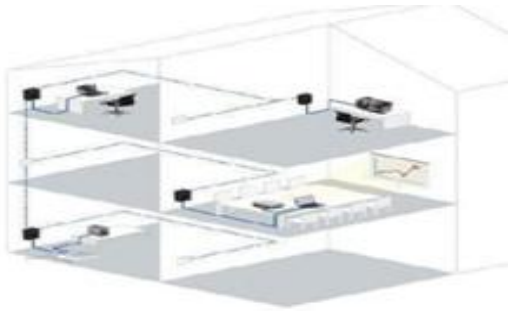
IV.SYSTEM MODEL

4.1 SYSTEM ARCHITECTURE

III. COMPARITIVE STUDY

FEATURES	LAND LINE - INTERCOM	IP BASED DATA EXCHANGE
VOICE CALL	✓	✓
VIDEO CALL	✓	✓
CONFERENCE CALL	×	✓
INSTANT MESSENGING	×	✓
EVENT SCHEDULING	×	✓
E-MAIL SERVER	×	✓
MONTHLY RENTAL	✓	×

Table 3.1 Comparision Table



Most importantly, PacketBench allows the

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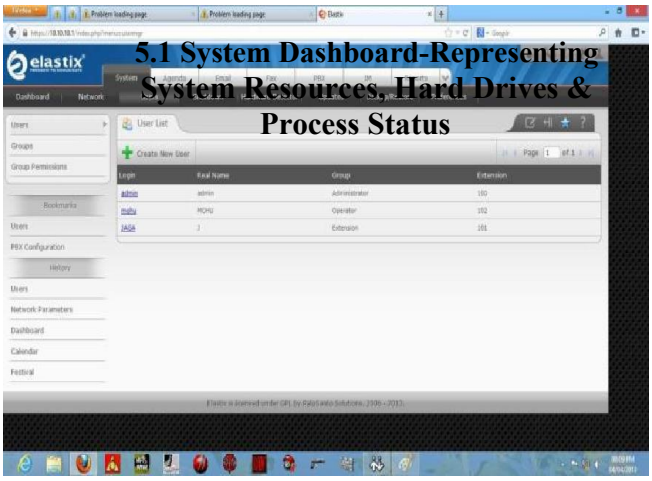
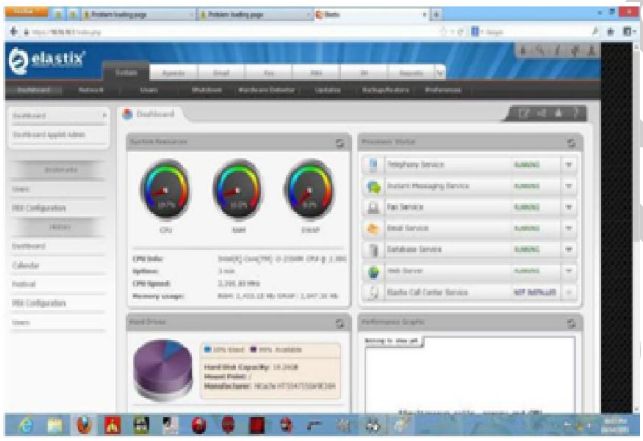
collection of workload information on a perpacket basis. Rather than examining averaged metrics, we can explore the detailed processing of each packet and explore the differences between individual packets. This is important for network processing The software used on the server side is the Cent OS and client side windows 7. The

programming languages used for the coding are shell, My SQL, Python and PHP.

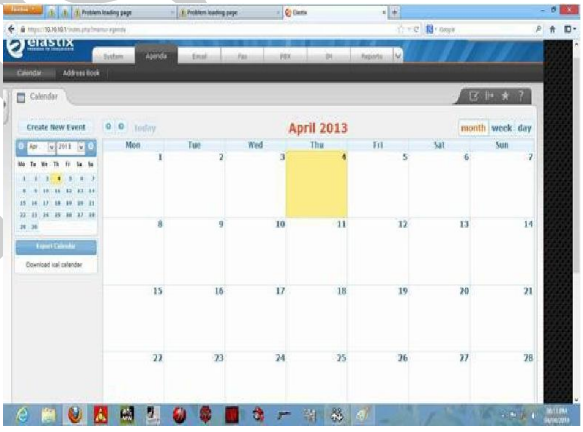
V.RESULTS



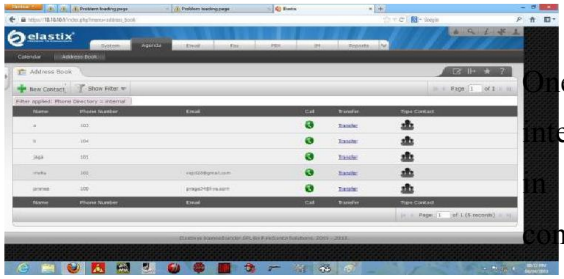
5.1 System Dashboard-Representing System Resources, Hard Drives & Process Status



5.2 System Network-Representing Network Parameters



5.4 Agenda_Calendar-Representing Event Detail's



5.5 Agenda_Address Book-Representing User Detail's.

VI.CONCLUSION

One challenging problem of paying rent for intercom usage communication is highly reduced in this proposed work through LAN communication. The proposed work shares the

information through the Local Area Network without any intercom billing. The land-line intercom is carried out using the video calling, conference call, e-mail, instant messenger & fax server. The internet based information sharing improves the data transfer rate with the minimal processing time.

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