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Effective monitoring of systems in LAN using virtual server network computing

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ABSTRACT

Client machines in the network can be monitored by GUI based software called virtual server network computing (VNC). The master- slave approach that allows the administrator to view the systems connected to the LAN and monitor them is known as Net Spy. The network administrator has rights to choose any client system and monitors various events. It also terminates the slave from the master. The end user has to rights to terminate or uninstall the VNC software**.** The proposed approach is suited for organizations where systems are connected in LAN network, and the management might require reports to be produced flawless and prompt.

KEYWORDS: VNC, LAN, Client-Server model, GUI, TCP, UDP.

1. INTRODUCTION

The maintenance system of the company should be in such a manner that in any time the system must be in a situation to produce flawless and prompt reports which are in need to the management,[1-4] which are user friendly and the proposed system and the netspy approach enables this. The maintenance of large amount of data effectively for future reference is also implemented in this approach. The system provides facilities to enter data more promptly and accurately. The new system has an advanced method for transaction and to a very simple method for viewing the various reports of a glance.

Protocols: The exchange of data between the systems in a network should follow some rule to avoid incorrect transmission and loss of data and this rule is collectively known as protocols. The widely used protocols by the computers running on the internet is either the User Datagram Protocol (UDP) or Transmission Control Protocol (TCP) the Proposed system demands use of both *Transmission Control Protocol* (TCP/IP) and *User datagram Protocol* (UDP). By sending all packets to all interconnected system in the network the available servers at the client side can be found.

Comparison of Existing system and the Proposed System: It is often difficult to build a flawless architecture with a large number of Virtual Machines (VM) on a single master and in these VMs run real Operating System (OS) instances. The new enhancements made to modern Os makes these servers capable of performing the functions of all network devices. The main issue with the proposed system is that there is no software that performs both monitoring and controlling operations. Manual process is implemented in existing system so it requires more efforts, manpower and cost also. The proposed system helps the user to work on numerous interconnected devices. Users will use the tools includes to construct an interconnected architecture and then construct it on the master as the result the users are qualified to get connected to the master and start their job on their interconnected architecture. VMs need not preconfigured for the remote access, which makes the system user friendly.

- VNC includes both supervising as well as overall control operations so the user can easily control the PC.
- There is no need of separate software to monitor and control the PC.
- It makes easy for the users to navigate between monitoring and controlling operations.
- This software displays the data as a graphical representation wherever needed.

Methodology: The methodology adapted in this system is top-down approach. The top-down development integrates design, implementation and testing. The integrated top-down design technique provides an orderly and systematic framework for software development. An advantage of the integrated top-down approach is distribution of system integration across the project; the interfaces are established coded and tested as the design processes.

Overall system architecture: The overall system architecture was split into login Session, Monitoring and Controlling.

Monitoring: The server makes a connection to client system by using the IP address .The client software monitor the client computer and get the details by using API functions and predefined .NET functions .The monitored details are then sent to the server system through sockets. The server receives the data and display it for the user. To get any details from the clients the connection is established between the master and slave systems through IP address.

Controlling: The server makes a connection to client system by using the IP address. The client software monitor the client computer and get the details by using API functions and predefined .NET functions. Server Calls the API and sends the IP address. Then Server performs the controlling operations.

2. CONCLUSION

The proposed paper concentrates on VNC that has made the system user friendly. The best utilization of resources is accomplished with the help of new innovative ideas and techniques. The future is fully based on

networking and monitoring the networks is going to be an important task. With this proposed paper we could manage any individual system, i.e. we can destroy a process, shut down a remote system, reboot a remote system, and also lock a remote system. We have tried out level best to make this application as easy as possible to use. We would be very delighted to find this project useful. We together as a group made the maximum effort to obtain the best and reliable software components for use with our coding.

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