A Review : Remote Desktop Monitoring Using Android Mobile Phones

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ABSTRACT:
In Today's technical world the android operating system based smart phone plays a huge role in the technical field, and also provides various useful applications which can be used in day to day lives. This system will see how the remote desktop with static IP can be accessed using android based mobile phones, to develop this application we used virtual network computing architecture. The key objective of the system is to remotely access and monitor different tasks running on the PC by connecting it to an android operating system based mobile phone through a network .This system turns your mobile phone into a controller and viewer that can monitor the tasks running on PC and also view its desktop. The system will discuss the process of accessing and monitoring the computers with the help of android cell-phones. This process is based on virtual network computing
Keywords- Remote Desktop; Android; Server, Client.

INTRODUCTION

The advancement in android operating system has brought a drastic change in the technological and cyberspace field related to mobile phones. Now a days, smart phones are used globally and provide tremendous facilities than the ones provided by previously available mobile phones. The features which were previously provided by computer system architecture are now provided by these phones. In the proposed system, we describe the system which can provide monitoring of remote computer system within the Wi-Fi network or any internet network and provide features like desktop monitoring, task managing, viewing screenshots of desktop etc. Proposed system will be executed on android based mobile phones and also on android software stack. Android software stack is used on a large scale for networking packages, executing android applications before executing it on mobile phones. By taking into consideration the most important issue of security, authentication is provided at client side. TCP/IP protocol are used for exchange of information amongst client and server. There are several systems and applications already designed to permit remote monitoring between devices. There are many architectures available to control the PC through mobile devices but it is necessary for both the devices to be in same network or Wi-Fi zone. The hidden eye architecture provided by manufacturers are usually designed as internal solutions and they partially cover the features required for the efficient use of it. Remote envisioning mechanism is the another aspect that is useful to achieve remote display on other devices.

Many systems are designed to perform remote control of device , the most popular is virtual network computing. There are number of implementations of proposed system which can be applied on android software stack. The proposed system is designed to overcome the limitations of mobile devices and create more affordable environment. The solution suggested could be used to perform configuration remotely. The android platform provides debug functionality on devices. This uses a protocol to offer a service of server when client is configured on the device and is integrated on the platform. The improvement in android platform is emerging continuously and it is expanding on large scale. The heart of the proposed system is to make use of android platforms for remotely controlling and accessing other devices such as computers

REVIEW OF LITERATURE

There are many existing systems which work as a connection mediator between Android phones and the desktop. But they have some limitations .One of the applications is used for controlling desktop from cellular phone, but it uses Remote Frame Buffer (RFB) protocol, which is a slow protocol .Due to this, the working of that application is slow.

Almost all the system uses the VNC architecture for communication between cell phone and remote desktop. Virtual Network Computing is a graphical desktop sharing system providing remote control via network. It supports a controlling functionality by usage of a graphical screen update from a controlled device and capturing a mouse and/or a keyboard. VNC system is based on RFB (Remote Frame Buffer) protocol to transmit all information between connected devices.VNC system required two type of application for a proper work server application for a machine under control and client for a supervisor and controlling

device. Client side is called viewer because of its functionality. Controlling machine is responsible for viewing a shared desktop or screen in general and capturing and converting all user activity into the RFB protocol messages. On the other side, server must interpret all events received from client and inject them into self system. Server should also respond to graphic screen update request by sending back a desktop view to connected client. The cellular user can see and manipulate the desktop on the android phone. The same cellular phone to talk someone, the user must terminate the network connection. [5]

Also, presently in the android market we have applications which can access the PC using the phone as if we were actually using the PC. Some examples include, TeamViewer, LogMeIn, etc. While going through all the similar applications, we realized that no application in the current market could provide the user to monitor the computers that are connected to it. This was one of the drawbacks of the applications that are present in the android market. Keeping this drawback in mind, we decided to develop an application which can help the user to remotely monitor all the computers that he has registered through his android phone. Also we focus on wake on LAN which can be done using certain operating system calls. What the previously developed applications lack, we focus on those areas to built an application which will be user friendly and will provide the user with better facilities. [6]

The main purpose of the application is to access and control different tasks on a PC by connecting it to an Android based mobile phone. It helps the user to monitor the tasks of the PC without being physically present there. To accomplish this purpose the application will have separate icons. The user will be constantly notified on his cellphone about the actions or tasks being performed by the target PC. This will help the user to get the overall information on a mobile phone.

PROPOSED SYSTEM

The proposed system enables us to view the screen of the clients PC. The access to the client Pc will be done with the help of the IP addresses. The list of IP address helps us to select one of the IP of the client's PC that will be visible to us. Whenever we want to view the video of the screen then we can click on IP address of the respective client and keep viewing. The remote desktop monitoring is the system that is purely designed for android mobile phones version. Once the mobile phone gets interconnected with the server, then our whole network gets formed. In this system we do not have any time limit for viewing the video. We are able to see the live video until we don't stop it. Thus the system is beneficial for all the sectors of society as it

helps in monitoring without the concern of the third party which helps in proper and efficient functioning of the organisation.

CONCLUSION

The proposed system will provide facilitation to the system administrator in supervising the tasks of the target PC. The system plays vital role in transmission of information between client and server. The feature that the proposed system will contain is of capturing screenshots of the desktop and are sent on the android based mobile phones. This will help the administrator to supervise the functioning of the supported client. This application ensures flexibility to users for controlling and monitoring their computer from distance. Thus the scope of proposed system will help us to provide easy access to the computer connected to it over a server and a android based mobile phone.

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