

Android Virtual Machine

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Abstract—There is increase in virus, trojan, ransomware etc. There is extreme of such system that can bare load and changes in system. So, to overcome this problem we need such system which can be deleted in extreme condition and similarly many more features. Best advantage of the virtual machine is that it can be created, deleted & restored at any point. At present this facility is unavailable on the android platform. What will this do? It will limit the number of chances of a user getting tempered by any hacker and will protect the data of user.

Keywords—Android, Data security, Virtual Machine.

I. INTRODUCTION

In today's world cyber-attacks is increasing. Our data is used for many purposes and even we don't know and how our data is manipulated. Most of Mobile OS uses Android system which is open source but it also had some limitation. Android system can hack easily. So, we need some different arrangement to handle this problem. In Windows we can switch to virtual OS for many purposes.

II. NEED OF ANDROID VIRTUAL MACHINE

Our mobile had to many in build app cache which saves lots of data some are useful and some are not. If anyone hack android device, the first think is he/she will try to collect data from your device. Of course, the data is encrypted but there are many software or techniques to decrypt it. After collecting data, they can use in many ways to blackmail you. So, we required such kind of OS which keep our data safe and secure.

III. CONCEPT

As we know that Android is open source so we can make changes in it. If the data structure of android is change in such a way that all in build app and important app are stored on a primary OS which can be accessible by virtually (VOS). If VOS want to access primary data there will be encryption between them. In future cyber-attack happens on VOS then the amount of valuable data which was in primary storage will remain safe. If a live attack happens then hacker already knows that where is the password, caches, internal storage data, user data is stored. So, it becomes very easier for a hacker to hack into the system. Some of the bat files can do it directly without any help.

IV. WHY NOT ANTIVIRUS

Antivirus is application, application (antivirus) not only protect it also collect data of user. In todays cyber world personal data or password is very important. Till now mobile antivirus are not so strong they can protect latest viruses, trojan even they can't detect. They are dump on store.

V. ACCUMULATED STORAGE

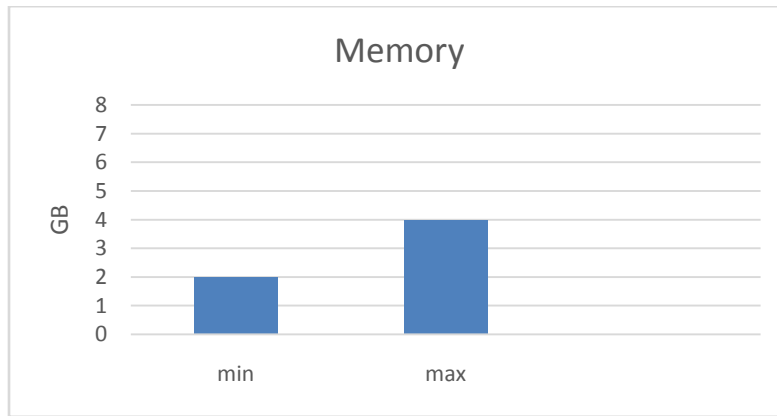


Fig. 1

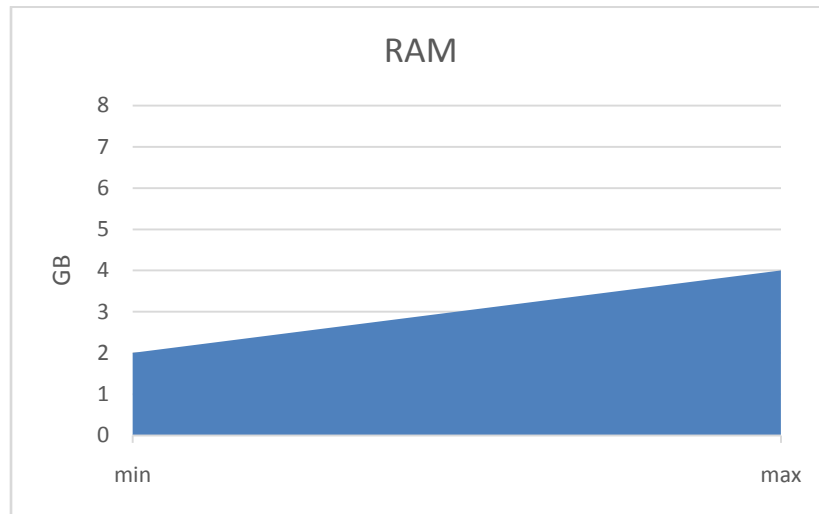


Fig. 2

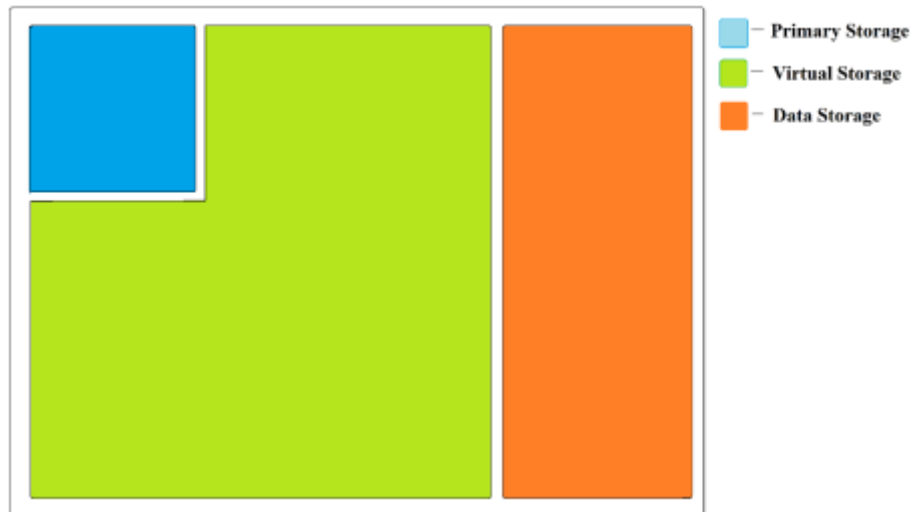


Fig. 3

VI. CONCLUSION

6.1 Advantage

- More secure.
- Easily handle.
- Easy to install virtual OS over primary storage.
- This technique can be use in Windows system also.

6.2 Disadvantages

- Consume more storage.

The aim of this article is to secure user data in growing cyber world.

REFERENCE

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