Abstract

Nowadays Technology is growing faster; peoples started using tablets, laptops & mobile on the move. Cloud is the basic platform for everything. Using the concept of virtualization one can access others computer virtually through the cloud. As many of the users started using this virtualization, Kernel attacks and other malicious programs which invokes many malicious process are increasing day by day. In order to give security to virtual machines lots of architectures are there but those architectures are not energy efficient which means it consumes more power hence large number of cooling system is required so an energy efficient scalable architecture is necessary to monitor the process invoked by the users of the virtual machine. Virtual machine monitoring architecture which is explained in this paper is an energy efficient architecture which is implemented on virtual machines and there is a dedicated virtual machine which is used for monitoring purposes and to save the monitoring logs. All the virtual machines are installed on KVM hypervisor. This architecture monitors the process based on CPU usage. As it is light weight monitoring architecture it consumes less energy when compared to other architectures hence it enhances green cloud.

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Index Terms

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Virtual machine  monitoring  green cloud  kernel attacks