

## عنوان مقاله:

Evaluation Security in Virtualization and Hypervisor Architecture's

## محل انتشار:

کنفرانس بین المللی مهندسی، هنر و محیط زیست (سال: 1393)

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## خلاصه مقاله:

In recent years, there has been a huge trend towards running network intensive applications, such as Internet servers and Cloud-based service in virtual environment, where multiple virtual machines (VMs) running on the same machine share the machine's physical and network resources. Also, Cloud Computing and virtualization are inseparable from each other. Virtualization increases efficiency, flexibility and scalability in cloud computing. In other word, it's the backbone of Cloud Computing. Virtualization in cloud computing is possible due to different virtualization platform such as Kvm, UMLinux, VMware, VirtualBox, Xen. Shared resources are an essential part of cloud computing. Virtualization and multi-tenancy provide a number of advantages for increasing resource utilization and for providing on demand elasticity. However, these cloud features also raise many security concerns related to cloud computing resources. In such environment, the virtual machine monitor (VMM) virtualizes the machine's resources in terms of CPU, memory, storage, network and I/O devices to allow multiple operating systems running in different VMs to operate and access the network concurrently. In this paper, we propose an architecture and approach for leveraging the virtualization technology at the core of cloud computing to perform intrusion detection security using hypervisor performance metrics.

## کلمات کلیدی:

Virtualization, Hypervisor, Security, Cloud Computing

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