Virtual machine migration (VMM) is one of important services is used as a tool to facilitate system maintenance, load balancing, fault tolerance, on-demand service offerings. Live VMM transfers an active Virtual Machine (VM) from one physical host to another across different data centres. It involves a sequence of operations in iteration under a specific protocol/method for migrating execution context (active memory) and control data of a VM to the destination machine. These operations are dependent on data transfer schedule, availability of resources and overall timing constraints. The migration process is implemented by establishing shared network storage and/or a network communication channel. Along with the execution context the security configuration of the VM need to be transferred. In this paper we have proposed a security context migration framework. Both the static as well as dynamic security context is considered for migration.
5. “VMware Vnetwork distributed switches”, 
6. “Cisco Nexus 1000V Series Switches,”
7. VMware VMotion for Live Migration of virtual machines,
20. Live migration, Available online: https://en.wikipedia.org/wiki/Live_migration

Index Terms
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VM Migration, Security Context, Security Configuration