A Survey on Techniques of Secure Live Migration of Virtual Machine

Abstract

Live migration is an essential feature of virtualization that allows transfer of virtual machine from one physical server to another without interrupting the services running in virtual machine. Live migration facilitates workload balancing, fault tolerance, online system maintenance, consolidation of virtual machines etc. Unfortunately the disclosed vulnerabilities with the live migration pose significant security risks. Because of these security risks the industry is hesitant to adapt the technology for sensitive applications. This paper is an investigation of attacks on live migration of virtual machine and discusses the key proposed and implemented approaches to secure live migration.

References

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Index Terms

Computer Science Communications
Keywords
Live migration  virtualization  security issues  virtual machine  virtual machine monitor