### **MT2521 Research Methodology HT15**

### **Milestone 1**

### **Project proposal**

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| **Title:** | Security protocols comparison in Live Migration for KVM |
| **Problem statement** | Live migration of VM are required for load balancing and resource utilization. In live migration it uses different protocols like SSH and TLS to provide security. A comparative study of overhead and time for migration is required for efficient live migration. |
| **Research question(s):** | What is the performance Overhead and time for migration of SSH and TLS in VM live migration for KVM? |
| **Hypothesis:** | 1. Security protocol metrics such as overhead, time for migration for both SSH and TLS are measured in VM live Migration for KVM 2. Comparison of both the protocols are performed to describe the efficient protocol for VM live migration |
| **Main contributions:** | Implementation of virtual machine live migration in KVM  Comparative study of SSH and TLS based on Overhead and time for migration in VM Live Migration for KVM  Implementation of Wireshark tool is to find the security protocol metrics in live migration |
| **Keywords:** | Overhead , SSH , Time for migration ,TLS |
| **References:** | [1] “Chapter 21. Remote management of virtualized guests.” [Online]. Available: https://docs.fedoraproject.org/en-US/Fedora/13/html/Virtualization\_Guide/chap-Virtualization-Remote\_management\_of\_virtualized\_guests.html. [Accessed: 13-Sep-2015].  [2] L. YamunaDevi, P. Aruna, D. D. Sudha, and N. Priya, “Security in Virtual Machine Live Migration for KVM,” in *2011 International Conference on Process Automation, Control and Computing (PACC 2011), 20-22 July 2011*, 2011, p. 6 pp. |

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