

Syllabus for TO (Systems)

1. Desktop/Server/Printer: Basic Linux commands and utilities, shell scripting, Linux file permissions and file systems, LDAP, Mail-, web-, file-, installation and configuration. Logging and analysis. Printer configuration using CUPS. Console based communication. Data backup, HA, and recovery with disaster management. Job scheduler configuration for HPC such as Open PBS and SLURM, operating system basics, python scripting.
2. Networks: Network OSI layers. DNS, DHCP, and VLAN. Network management and debugging using SNMP, and tcpdump. Cisco network administration
3. Security: Network security fundamentals, VPN, Linux and pfSense firewall, proxy with Squid, open SSL.
4. Cloud: Docker and Kubernetes.

Exam Format

1. **Level-1** Online Screening Test: MCQ type with negative marking.
2. **Level-2a** In-person Written Test: Descriptive type - Understanding and application of knowledge/skills.
3. **Level-2b** In-person Practical Test: Skill-based
 - a. Practical usage of topics covered in the syllabus, with more emphasis on command-line usage, as applicable.
 - b. Hardware troubleshooting of systems and networks.
4. **Level-3** In-person Interview.

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