

Enterprise Network Monitoring and Management BootCamp

Class No	Module Details	Duration
Day-1	<ul style="list-style-type: none"> • Details about Network Operation Center (NOC) • Details about Network Monitoring and Management System (NMS) • Details about Agent based and Agent less tools • Details about SNMP, and its different version of SNMP • Virtualization and Linux Basic • Server Lab Setup with Virtual Box/VMware Workstation • Network Lab Setup with GNS3 (Cisco, Fortinet, Juniper and Mikrotik) • Networking between GNS3 Devices and Virtual Server 	3 Hours
Day-2	<ul style="list-style-type: none"> • Nagios – Overview • Nagios – Architecture • Features of Nagios Core • Install and Configure Apache Web Server • Install and configure Nagios Core • Monitor Nagios Server Resources • Authentication for The Web Interface • Configure Hosts, Services, Host group, Service Group • Monitor Host and Services (Cisco, Fortinet, Juniper and Mikrotik) • Configure and customize Nagios Network Map 	3 Hours
Day-3	<ul style="list-style-type: none"> • Monitoring Linux/Unix Machines Using NRPE– What is NRPE? • Remote Host Configuration (Linux) • Installation and Configure NRPE on Remote Linux Host/Server • Installation and Configure NRPE Plugin in Nagios Monitoring Server • Remote Host Configuration (Windows) • Installing the Windows Agent • Configuring Nagios Server for Windows Host • Nagios Notifications • Configure email notifications • Configure Telegram notifications 	3 Hours
Day-4	<ul style="list-style-type: none"> • Install and configure nFsen Netflow Analyzer • Install and Configure nFdump 	3 Hours

	<ul style="list-style-type: none"> • Install and Configure nFsen • Configure flow collector and source • Configure flow exporter in devices (Cisco, Fortinet and Mikrotik) 	
Day-5	<ul style="list-style-type: none"> • Overview of LibreNMS • Features of LibreNMS • Install and Configure LibreNMS on RHEL/CentOS 8.x • Configure and Add devices (Cisco, Fortinet, Juniper and Mikrotik) • Configure Notifications • Install and Configure Network WeatherMap Plugin with LibreNMS • Create Network Map using Network WeatherMap Plugin with LibreNMS 	3 Hours
Day-6	<ul style="list-style-type: none"> • Install and configure rsyslog and rsyslog MySQL module • Configure MySQL module and store server log in MySQL • Install and Configure Log Analyzer for web interface • Configure collector to store logs from remote devices • Configure log exporter in devices (Cisco, Juniper, Fortinet and MikroTik) 	3 Hours
Day-7	<ul style="list-style-type: none"> • Plugins Management in Cacti • Install and configure different types of plugins • Install and Configure Monitor plugin • Install and Configure Network Weather Map (Live Network Visualization Tool) • Creating Network Map • Add Device • Add Link between devices • Add data into link and link info • Change default icon for devices • Customize the map • Install and Configure SmokePing • Add Link to SmokePing • Create Groups in SmokePing • Integrate SmokePing into Cacti • Quiz Test 	3 Hours