

WORKSHOP
On
SYSTEM ADMINISTRATION ON LINUX PLATFORM

[1] TITLE: Workshop on System Administration on LINUX Platform

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[3] INTRODUCTION:

Bangladesh Research and Education Network (BdREN) is the NREN of Bangladesh. This is a project of Ministry of Bangladesh under Higher Education Quality Enhancement Project funded by World Bank. Implementing agency of this project is University Grants Commission of Bangladesh. BdREN organizes different capacity building activities over the year for his stakeholders to develop technical skill of IT peoples. In continuation of this, BdREN organizing training program “**System Administration on Linux platform**” at two separate batch on **23-24 and 26-27 July 2017**. BdREN has a good Technical Team of professionally skilled network engineers, which makes it very much capable for hosting such training events in association with other renowned local technical resource persons as trainers/assistants.

[4] OBJECTIVES:

This workshop is designed for engineers and system staffs working at ISPs or large networks including academic network, R&E network and enterprise network especially involved with system and service management, network monitoring and management and problem response and troubleshooting. The course is for those who need to administrate system and network services in open platform especially in UNIX system. The course will help to configuring and administration of network service like DNS, mail and web in Academic Network, Service provider and corporate network environment.

[5] TARGET PARTICIPANTS:

The workshop is targeted for the network/system professionals from the different universities and research institutions in Bangladesh.

The following are the list of expected target audiences-

- University network engineering staffs and Research & Education Network Practitioners in Bangladesh
 - System Administrator
 - Network Administrator
 - Network Troubleshooter
 - IT Security Professional
 - IT Support

[6] NUMBER OF PARTICIPANTS:

- Participants: 26/Batch

[7] WORKSHOP DATES:

FIRST BATCH : 23-24 JULY 2017

SECOND BATCH : 26-27 JULY 201

[8] WORKSHOP DURATION: 2 DAYS/BATCH

[9] SYNOPSIS PROGRAM

This 2-days workshop is designed for engineers and system staffs working at ISPs or large networks including academic network, R&E network and enterprise network especially involved with system and service management, network monitoring and management and problem response and troubleshooting. The course is for those who need to administrate system and network services in open platform especially in UNIX system. The course will help to configuring and administration of network service like DNS, mail and web in academic network, Service provider and corporate network environment. The course in brief will be as follows:

PROGRAM SCHEDULE (TENTATIVE)

Day	Time	Topic
Day 1	09:00 – 10:30	Opening Session <ul style="list-style-type: none">• Registration• Opening Ceremony
	10:30 – 11:00	Tea/Coffee Break
	11:00 – 12:30	Workshop Session 11 <ul style="list-style-type: none">• VMware workstation installation and VM creation.• Linux Installation• Basic command syntax of Linux system• Managing Local Users and Groups
	12:30 – 14:00	Lunch
	14:00 – 15:30	Workshop Session 12 <ul style="list-style-type: none">• System Network Configuration• Installing and Updating software packages Linux Installation• Configuring and Securing Remote Access• Managing and configuring DNS Server
	15:30 – 16:00	Tea/Coffee Break
	16:00 – 17:00	Workshop Session 13 <ul style="list-style-type: none">• Managing and configuring DNS Server (continued)
	Day 2	09:00 – 10:30

		<ul style="list-style-type: none"> • Managing and configuring Web (HTTP) Server • File Transfer Protocol (FTP)
10:30 – 11:00	Tea/Coffee Break	
11:00 – 12:30	Workshop Session 22 <ul style="list-style-type: none"> • Configuring Email Server 	
12:30 – 14:00	Lunch	
14:00 – 15:30	Workshop Session 23 <ul style="list-style-type: none"> • Configuring Email Server (continued) 	
15:30 – 16:00	Tea/Coffee Break	
16:00 – 17:00	Workshop Session 24 <ul style="list-style-type: none"> • Workshop evaluation 	

[10] EXPECTED OUTCOME

The course is designed for understanding UNIX operating system and how to work on UNIX/LINUX platform. On completion of this training course, the trainee will:

- Learn how to install, configure and maintain an Enterprise Linux system in a networked environment.
- Basic administrative tasks such as creating and managing users, creating and maintaining file systems, determining and implementing security measures and performing software installation and package management.
- Linux networking topics include installing and supporting SSH, Telnet, Remote Desktop, FTP, Samba DNS, Mail and the Apache Web server
- Gather hands-on knowledge and experience on LINUX system operation.
- Learn how to troubleshooting system problems in Linux system.
- Able to use network-monitoring tool like cacti to verify network performance and problem response.

[11] POST TRAINING DEVELOPMENT:

Among 34 public universities in Bangladesh, 15 universities have already commenced their campus networks. Design and implementation of the campus network in the rest 19 public universities is going on under the guidance of BdREN. Therefore, knowledge of system administration and configuration would be highly beneficial for the professionals working in university to provide network services over campus network. Trained engineers would be able to contribute to the developing different services like Web, Mail, DNS, monitoring server etc. in UNIX system and will be able to monitor whole campus network following industry standards and best practices.