Title: Workshop on Virtualization and Cloud Computing for NREN Engineers
Duration: 25~28 November, 2019.
Venue: UGC Auditorium, UGC Bhaban, Agargaon, Dhaka – 1207, Bangladesh.

Topic of Virtualization and Cloud Computing for NREN Engineers

- Introduction to Virtualization and Cloud Computing
- Cloud System Architecture and Equipment
- Introduction to Virtualization Technology: VMware Horizon
- BdREN Cloud System and Data Center visit at UGC
- Creating and Managing Virtual machines
    - VMware Horizon Hands-on-Lab Exercise
- vSphere VMware Horizon Desktops Horizon Client Options
- Creating Automated Pools of Full Virtual Machines
- Managing VMware Horizon Authentication and Security
- Data Centre Virtualization (Compute and Network)
- Data Centre Virtualization (Storage and SAN)
- Cloud System Administration
    - Overview of Cloud Computing
    - Introduction of OpenStack
    - OpenStack Lab
- Introduction to Cloud Data Protector and Backup
    - HP Data Protector and Backup library (Demonstration)

Purpose of the Workshop

Workshop on Virtualization and Cloud Computing for NREN Engineers is going to take place at BdREN under Asi@Connect. The objective of the workshop is to train the NREN engineers on implementation and administration of cloud system and provide respective services to the member institutions. First two days of the program, the certified experienced trainer will share details theoretical knowledge on Cloud Computing System Architecture, equipment and virtualization technologies and VMware Horizon. Participants will be enlightened by the respective hands-on lab experience. BdREN engineer will explain the Data Center virtualization technologies (Compute virtualization, Network virtualization and Storage virtualization) and demonstrate installation and operation of Openstack cloud environment. BdREN is providing Infrastructure as a Service (IaaS), Storage as a Service and Backup as a Service to its member institution and the details of its administration and operation will be demonstrated during this workshop including its Data Loss Prevention (DLP) strategy. Through this workshop, participants will be benefitted experiencing the lab and live operational experience on virtualization and cloud computing.