

Workshop on eduroam Institutional Radius Server (IRS) Configuration Batch-1

Dates: 27-28 Sep, 2019, **Location:** Dhaka, Bangladesh, **Host:** [BdREN](#), **Venue:** UGC Auditorium

eduroam:

eduroam™ is the secure, world-wide roaming access service for the international research and education community. With hundreds of thousands of wireless access points sharing the common SSID, eduroam acts as a giant world-wide hotspot.

eduroam provides researchers, teachers and students from an institution easy and secure network access when visiting another, domestic or international. Authentication of users is performed by their home institution securely, without revealing the username or password to the visited institution. Users use the same credentials as when they access the network locally. Authorization to access the Internet and possibly other resources is handled by the visited institution.

Workshop Goals

- Train the Engineers of different education and research institutes to educate them about the configuration of Institutional Radius Server (IRS) at their campuses and about establishing the interface between IRS and authentication database so that they can deploy and operate eduroam facilities at their respective campuses.

Requirements

- Linux Basic, Networking Basic and Command Line Interface (CLI) experience.
- A laptop (Windows, MAC or Linux)

Recommended Software

- PuTTY SSH for Windows (SSH) [putty](#)
- PuTTY Secure Copy for Windows (SCP) [scp](#)

Participant List:

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Instructors

Short Name	Name	Organization	Email
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Mahedi	Md. Mahedi Hasan	BdREN	mahedi@bdren.net.bd

Program Schedule

Day	Session	Instructor	Topics	Presentations
Day 1	9:00 - 09:30		Registration	
	09:30 - 10:30	Tawrit	eduroam Overview	Slide
	10:30 - 11:00		Tea/Coffee Break	
	11:00 - 12:50	Mahedi	Basic command syntax of Linux System * Create, edit, save & view a file * Change Password * Start/Stop service * Browse file system * Rename and Delete file * Check for a process * Log analysis * Software Package install, update & remove	Lab Setup linux-basic-command.pdf
			Server Provisioning for Idp * Hostname Configuration * Network Configuration * Selinux & Firewall Configuration Installing and Configure Database Server * Install MariaDB server * Create Database & User	Lab Guide
12:50 - 14:00		Prayer & Lunch Break		

Day	Session	Instructor	Topics	Presentations
	14:00 - 15:30	Mahedi	Install & Configuring radius server <ul style="list-style-type: none"> * Install free-radius with mysql * Configure radius with mysql database * Test Local configuration 	
	15:30 - 16:00		Tea/Coffee Break	
	16:00 - 17:00	Mahedi	Install & Configuring user mgt. portal <ul style="list-style-type: none"> * Install Apache web server * Install daloradius * Configure daloradius with radius * Test Local configuration 	
Day 2	9:00 - 10:30	Mahedi	Client Configuration <ul style="list-style-type: none"> * Client configuration in radius server * Configure client and test with server Configure Radius for Eduroam <ul style="list-style-type: none"> * EAP Configure for eduroam * Connect with NRO * Test Roaming 	
	10:30 - 11:00		Tea/Coffee Break	
	11:00 - 12:30	Mahedi	Trouble Shooting & Logging <ul style="list-style-type: none"> * Log analysis * Connecting Logs * Trouble Shooting 	
	12:30 - 14:00		Prayer & Lunch Break	
	14:00 - 15:30	Mahedi	Demonstration Radius with LDAP Server <ul style="list-style-type: none"> * Live demonstration of LDAP Configuration 	
	15:30 - 16:00		Tea/Coffee Break	
	16:00 - 17:00	Mahedi	Q & A	