

Solution Architecture Lab**Course Objectives:**

- To get familiar with AWS cloud services
 - To design secure, scalable, and well structured cloud solutions
 - To create EC2 instance and configure options
 - To connect EC2 with Linux instance
 - To connect VPN server to securely access instances
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1. Managing Virtual Private Cloud
 2. Creating and Configuring Internet Gateways
 3. Configuring Routing Tables
 4. Working with Amazon Elastic Cloud Compute (EC2)
 5. Connecting EC2 Linux instance using PuTTY, Gitbash and Console
 6. Recovering and connecting EC2 instance if the SSH key is lost
 7. Creating and Configuring Elastic Load Balancer
 8. Scheduling Auto Snapshot of volumes
 9. Configuring Centralized Log Management using Cloud Watch Log
 10. Connecting OpenVPN server

Course Outcomes

On the successful completion of the course, students will be able to

C01:	Understand AWS cloud services and manage the cloud data	K1- K6
C02:	Develop secure, scalable, and well structured cloud solutions	
C03:	Implement EC2 instance and configure the instance	
C04:	Connect EC2 with Linux instance and perform operations	
C05:	To connect VPN server to access instances with more security	

K1- Remember, K2- Understand, K3- Apply, K4- Analyze, K5- Evaluate, K6- Create

Mapping with Programme Outcomes

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	S	S	S	S	S	S	S	S	S	M	S	S
CO2	S	S	S	S	S	S	S	S	S	S	M	S
CO3	S	M	S	S	S	S	M	S	S	S	S	S
CO4	S	S	S	M	S	S	S	S	S	S	M	S
CO5	S	S	S	S	M	S	S	S	S	M	M	S

S- Strong; M-Medium; L-Low