

Teaching Plan

Term Oct 2022

Module Name SERVER & CLOUD SECURITY Credit Units 4

Module Leader SUN LEI Contact 60 Hrs with 8 OAL Sessions

Wk	Begin Date	Topics	Activity/Session 1	Activity/Session 2	Assessment
1	17 Oct	Module Overview Server Security Basics	Server RolesServer Attack VectorsDefense-in-DepthDisaster Recovery	Practical: Deploying Windows Servers	
2	24 Oct	Securing Windows Server - 1	LinkedIn Learning - Securing Windows Server 2019 - Server Hardening - Secure the Network	Practical: Configure HTTP Web Service	
3	31 Oct	Securing Windows Server - 2	LinkedIn Learning - Securing Windows Server 2019 - Secure File Services - Manage Priviledged Identities - Configure Advanced Audit Policies	Practical: HTTPS and Certificate Life Cycle	
4	07 Nov	Cloud Security Basics	 Overview of Virtualization and Cloud Computing Cloud Deployment Models and Service Modules Shared Responsibility Model Identity and Access Management (IAM) 	Practical: Using Resource-Based Policies to Secure an S3 Bucket	
5	14 Nov	Whitespace Week	Whitespace Week	Whitespace Week	
6	21 Nov	Cloud Data Security	Protect Data at RestProtection through Encryption	Practical: Encrypting Data at Rest by Using AWS KMS Quiz 1 - 10%	

Last update: 13 October, 2022 Page 1 of 2

Official (Closed) - Sensitive Normal

7	28 Nov	Cloud Operations Security	 Security Operations Functions Importance of logging and monitoring Capture and collect Monitor and report Best practices for logging and monitoring Additional AWS services for logging and monitoring Identifying an incident 	Practical: Monitoring and Alerting with CloudTrail and CloudWatch	
8	05 Dec	Topics from Weeks 1 to 7	Topics from Weeks 1 to 7	Topics from Weeks 1 to 7	
9	12 Dec	Common Test	Common Test (30%)	Common Test (30%)	
10	19 Dec	Break			
11	26 Dec	Break			
12	02 Jan	Future Trends of Security: AI & ML	Machine Learning Basics	Practical: Supervised & Unsupervised Machine Learning	
13	09 Jan	AI & ML Use Cases in Security	Artificial Intelligence for Cybersecurity	Practical: Splunk Search, Correlation & Attack Detection	
14	16 Jan	Whitespace Week	Whitespace Week	Whitespace Week	
15	23 Jan	Assignment	Assignment	Quiz 2 - 10%	
16	30 Jan	Assignment	Assignment	Assignment	
17	06 Feb	Assignment Presentation	Assignment Presentation	Assignment Presentation	
18	13 Feb	Study & Exam Week			
19	20 Feb	Study & Exam Week			

Holiday:

24 Oct - Deepavali

26 Dec - Christmas Day

02 Jan - New Year's Day

23 Jan - Chinese New Year

24 Jan - Chinese New Year

Notes on Teaching Plan:

Last update: 13 October, 2022 Page 2 of 2