



Assessment Outline

Term	Oct 2022		
Module Name	SERVER & CLOUD SECURITY	Credit Units	4
Module Leader	SUN LEI	Contact	60 hrs

Assessment Component	1	Continual Assessment (CA)	Weightage	20%
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Description Week 6, 10%, Individual Mel Quiz.
Week 15, 10%, Individual Mel Quiz.

Mode Individual **Undifferentiated Group Marks** 0%

Feedback Plan Feedback will be provided in the following weeks of the CAs conducted.

Objective The continual assessment is to assess the students' ability to explore and analyze problems and solutions in the context of server hardening, security planning, server security tools, and cloud security practices.

Module Learning Objectives Supported

- (1) Describe web technology and the infrastructure of web server
- (2) Describe the cloud deployment models and service models
- (3) Explain the essential concepts and scope of server and cloud security
- (4) Identify server and cloud risks and vulnerabilities
- (5) Demonstrate the ability to carry out security monitoring and vulnerability scanning
- (6) Demonstrate the ability to secure the server and cloud environment
- (7) Describe the common practices of web server and cloud security management
- (8) Explain server and cloud security policies
- (9) Describe the key strategies and best practices of securing the web server and cloud

Assessment Component	2	Class Participation (CLASSP)	Weightage	10%
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Description Class participation 10% includes students' attendance and active participating in class discussions and practical performance.

Mode Individual **Undifferentiated Group Marks** 0%

Feedback Plan Continuous feedback will be provided to students weekly.

Objective

Module Learning Objectives Supported

- (1) Describe web technology and the infrastructure of web server
- (2) Describe the cloud deployment models and service models
- (3) Explain the essential concepts and scope of server and cloud security
- (4) Identify server and cloud risks and vulnerabilities
- (5) Demonstrate the ability to carry out security monitoring and vulnerability scanning

- (6) Demonstrate the ability to secure the server and cloud environment
- (7) Describe the common practices of web server and cloud security management
- (8) Explain server and cloud security policies
- (9) Describe the key strategies and best practices of securing the web server and cloud

Assessment Component 3 Common Test (CT) **Weightage** 30%

Description Students will be assessed via a 90 min closed-book test for all the topics covered in Week 1 to Week 7.

Mode Individual **Undifferentiated Group Marks** 0%

Feedback Plan Feedback will be provided to students in term 2 class hours.

Objective To assess students individually on their understanding of the security of server and the cloud.

Module Learning Objectives Supported

- (1) Describe web technology and the infrastructure of web server
- (2) Describe the cloud deployment models and service models
- (3) Explain the essential concepts and scope of server and cloud security
- (4) Identify server and cloud risks and vulnerabilities
- (5) Demonstrate the ability to carry out security monitoring and vulnerability scanning
- (6) Demonstrate the ability to secure the server and cloud environment
- (7) Describe the common practices of web server and cloud security management
- (8) Explain server and cloud security policies
- (9) Describe the key strategies and best practices of securing the web server and cloud

Assessment Component 4 Assignment (ASG) **Weightage** 40%

Description This is a group plus individual assessment. Students will work in groups of 3-4 to perform research and setup/configuration work.
Group component = 20% is on the hardening of the Linux OS.
Individual component = 20% is on the securing file server & cloud environment.

Mode Both **Undifferentiated Group Marks** 50%

From Week 4 To Week 16 **Due / Test Date** 05-Feb-2023

Feedback Plan Ongoing feedback to be provided for each milestone checkpoint.

Objective To assess students' understanding of the topics in the server security and cloud security domain.

Module Learning Objectives Supported

- (1) Describe web technology and the infrastructure of web server
- (2) Describe the cloud deployment models and service models
- (3) Explain the essential concepts and scope of server and cloud security
- (4) Identify server and cloud risks and vulnerabilities
- (5) Demonstrate the ability to carry out security monitoring and vulnerability scanning
- (6) Demonstrate the ability to secure the server and cloud environment
- (7) Describe the common practices of web server and cloud security management
- (8) Explain server and cloud security policies

