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UNIVERSITY OF MADRAS
B.Sc. DEGREE COURSE IN COMPUTER SCIENCE
SYLLABUS WITH EFFECT FROM 2020-2021

BCE-CSC16

CORE: INTRODUCTION TO CLOUD COMPUTING
(Common paper to B. Sc Computer Science with Data Science and Computer Science with AI)

III YEAR / VI SEM

OBJECTIVES:
- To understand the concepts in Cloud Computing and its Security
- To understand the evolving computer model caned cloud computing
- To introduce the various levels of services that can be achieved by cloud

OUTCOMES:
- To explain and apply levels of services of Cloud
- To describe the security aspects in cloud.

UNIT - I
Cloud Computing Foundation: Introduction to Cloud Computing – Move to Cloud Computing – Types of Cloud – Working of Cloud Computing

UNIT - II
Cloud Computing Architecture : Cloud Computing Technology – Cloud Architecture – Cloud Modeling and Design - Virtualization : Foundation – Grid, Cloud and Virtualization – Virtualization and Cloud Computing

UNIT - III
Data Storage and Cloud Computing : Data Storage – Cloud Storage – Cloud Storage from LANs to WANs – Cloud Computing Services : Cloud Services – Cloud Computing at Work

UNIT - IV
Cloud Computing and Security : Risks in Cloud Computing – Data Security in Cloud – Cloud Security Services – Cloud Computing Tools : Tools and Technologies for Cloud – Cloud Mashups – Apache Hadoop – Cloud Tools

UNIT - V
Cloud Applications – Moving Applications to the Cloud – Microsoft Cloud Services – Google Cloud Applications – Amazon Cloud Services – Cloud Applications

TEXT BOOK:
1. A Srinivasan and J Suresh, "*Cloud Computing – A Practical Approach for Learning and Implementation*", Pearson India Publications 2014.

REFERENCE BOOK:
1. Rajkumar Buyya, James Broberg, Andrzej , "*Cloud Computing: Principles and Paradigms*", Wiley India Publications 2011.
2. Arshdeep Bahga and Vijay Madisetti ,"*Cloud Computing – A Hands on Approach*", Universities Press (India) Pvt Ltd. 2014.

WEB REFERENCES:
➤ NPTEL & MOOC courses titled Cloud computing
➤ https://nptel.ac.in/courses/106105167/

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Generally speaking, you can achieve your basic goal within a week with our Certified in Cybersecurity (CC) CC study guide. Besides, for new updates happened in this line, our experts continuously bring out new ideas in this ISC CC Exam for you. The new supplemental updates will be sent to your mailbox if there is and be free.

ISC CC Exam Syllabus Topics:

Topic	Details
Topic 1	• Business Continuity (BC), Disaster Recovery (DR) & Incident Response Concepts: This domain targets Business Continuity Planners and Incident Response Coordinators. It focuses on the purpose, importance, and core components of business continuity, disaster recovery, and incident response. Candidates learn how to prepare for and manage disruptions while maintaining or quickly restoring critical business operations and IT services.
Topic 2	• Access Control Concepts: This section measures skills of Access Control Specialists and Physical Security Managers in understanding physical and logical access controls. Topics include physical security measures like badge systems, CCTV, monitoring, and managing authorized versus unauthorized personnel. Logical access control concepts such as the principle of least privilege, segregation of duties, discretionary access control, mandatory access control, and role-based access control are essential for controlling information system access.

Topic 3	• Network Security: This domain assesses the knowledge of Network Security Engineers and Cybersecurity Specialists. It covers foundational computer networking concepts including OSI and TCP • IP models, IP addressing, and network ports. Candidates study network threats such as DDoS attacks, malware variants, and man-in-the-middle attacks, along with detection tools like IDS, HIDS, and NIDS. Prevention strategies including firewalls and antivirus software are included. The domain also addresses network security infrastructure encompassing on-premises data centers, design techniques like segmentation and defense in depth, and cloud security models such as SaaS, IaaS, and hybrid deployments.
Topic 4	• Security Operations: This area targets Security Operations Center (SOC) Analysts and System Administrators. It covers data security with encryption methods, secure handling of data including classification and retention, and the importance of logging and monitoring security events. System hardening through configuration management, baselines, updates, and patching is included. Best practice security policies such as data handling, password, acceptable use, BYOD, change management, and privacy policies are emphasized. Finally, the domain highlights security awareness training addressing social engineering awareness and password protection to foster a security-conscious organizational culture.
Topic 5	• Security Principles: This section of the exam measures skills of Security Analysts and Information Assurance Specialists and covers fundamental security concepts such as confidentiality, integrity, availability, authentication methods including multi-factor authentication, non-repudiation, and privacy. It also includes understanding the risk management process with emphasis on identifying, assessing, and treating risks based on priorities and tolerance. Candidates are expected to know various security controls, including technical, administrative, and physical, as well as the ISC2 professional code of ethics. Governance processes such as policies, procedures, standards, regulations, and laws are also covered to ensure adherence to organizational and legal requirements.

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ISC Certified in Cybersecurity (CC) Sample Questions (Q383-Q388):

NEW QUESTION # 383
Four main components of Incident Response are

- A. AII
- B. Detection, Analysis, Containment, Eradication and Recovery
- C. Preparation, Detection, Analysis and Containment
- D. Preparation, Detection and Analysis, Containment, Eradication a

Answer: D

NEW QUESTION # 384
Which layer of the OSI layer model is responsible for associate MAC addresses to network devices

- A. Physical layer
- B. Network layer
  C Data link layer
- C. Transport layer

Answer: C

NEW QUESTION # 385

Inbound traffic from an external source seems to indicate much higher rates of communication than normal, to the point where the internal systems might be overwhelmed. Which security solution can often identify and potentially counter this risk?

- A. Firewall
- B. Badge system
- C. Turnstile
- D. Anti-malware

Answer: A

NEW QUESTION # 386

Which of these tool is commonly used to crack passwords

- A. Wireshark
- B. Nslookup
- C. John the ripper
- D. Bup Suite

Answer: C

NEW QUESTION # 387

What is the main challenge in achieving non repudiation in electronic transactions

- A. All of the above
- B. Making sure the message is not tampered with during transmission
- C. Ensuring the identity of the sender and recipient is verified
- D. Ensuring the authenticity and integrity of the message

Answer: A

NEW QUESTION # 388

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Individuals who pass the Certified in Cybersecurity (CC) certification exam demonstrate to their employers and clients that they have the knowledge and skills necessary to succeed in the industry. Prep4away is aware that preparing with outdated CC Study Material results in a loss of time and money.

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