



**Asia Masters Center**

## **Introduction to Networking**





## Introduction to Networking

### ➔ Course Objective

- To understand the implementation, design principles and goals of a Computer Network and touches upon the various routing algorithms used in CN (such as link-state and distance vector).

### ➔ Target Audience

- Security personnel who are currently tasked with assessing the technical risks of cloud computing
- Network and systems administrators who currently manage private clouds or need to leverage hybrid and/or public cloud services
- Technical auditors and consultants who need to gain a deeper understanding of cloud computing and security concerns
- Security and IT managers who need to understand the risks of cloud computing and advise business management of the risks and various approaches involved



## **Course Outline**

### ➤ **Day 1**

- Introduction
- Computer Networking Overview
- What This Class is Not About

### ➤ **Day2**

- Architecture & Principles
- A Brief History of the Internet
- Architectural Design Principles
- Packet Switching
- File Transfer
- End to End Argument Violations

### ➤ **Day 3**

- Switching
- Switching and Bridging
- Bootstrapping: Networking Two Hosts
- ARP: Address Resolution Protocol
- Interconnecting LANs with Hubs
- Switches: Traffic Isolation
- Spanning Tree
- Switches vs. Routers



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### ➤ Day 4

- Routing
- Internet Routing
- Intra-AS Topology
- Distance-Vector Routing
- Link State Routing
- Interdomain Routing
- IGP vs. iBGP
- BGP Route Selection
- Multiple Exit Discriminator (MEI)
- Interdomain Routing Business Models

### ➤ Day 5

- Naming, Addressing & Forwarding
- IP Addressing
- Pre-1994: “Classful” Addressing
- IP Address Allocation
- Classless Interdomain Routing (CIDR)
- Multihoming Frustrates Aggregation
- Address Lookup Using Tries
- Memory Efficiency and Fast Lookup
- Alternatives to LPM with Tries
- NAT and IPv6
- Network Address Translation (NAT)

## ➤ **The Feature Of Asia Master Training And Development Center**

- we pick up the customer from the airport to the hotel.
- we give the participant training bag includes all the necessary tools for the course.
- Working within groups to achieve the best results.
- All our courses are confirmed and we do not postpone or cancel the courses regardless of the number of participants in the course.
- We can assist you in booking hotels at discounted prices if you wish to book through us.
- We offer the certificate from Asia Masters Center for Training and Administrative Development.

## ➔ **The Cost Of The Training Program Includes The Following:**

- 1) Scientific article on flash memory.
- 2) Training Room.
- 3) Training.
- 4) Coffee break.
- 5) The training bag includes all the tools for the course.



## Asia Masters Center

### Price (USD)

Communicate with the training department  
to know the participation fees

➤ **There are offers and discounts for groups**

### The details of the bank account

Bank name: CIMB Bank Berhad

Account name: Asia Masters Center SDN. BHD

Bank account number: 80-0733590-5

Swift code: CIBBMYKL

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