



Asia Masters Center

Introduction to Networking Administration





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Introduction to Networking Administration

➔ 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

➤ **Day1**

- Router Design Basics
- Router Design
- Basic Router Architecture
- Decision: Crossbar Switching
- Switching Algorithm: Maximal Matching
- Head of Line Blocking
- Scheduling and Fairness
- Max-Min Fairness

➤ **Day 2**

- Domain Name System (DNS)
- Record Types
- Examples (using “dig”)
- Lookup IP Address

➤ **Day 3**

- Congestion Control & Streaming
- Congestion Control
- AIMD (TCP Congestion Control)
- Data Centers & TCP “Incast”
- Barrier Synchronization & Idle Time
- Multimedia & Streaming
- Digitizing Audio & Video
- Streaming Video
- Skype



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➤ Day 4

- Rate Limiting and Traffic Shaping
- Traffic Classification & Shaping
- Source Classification
- Leaky Bucket Traffic Shaping
- (r, t) Traffic Shaping
- Shaping Bursty Traffic Patterns
- Power Boost
- Effects on Latency
- Buffer Bloat
- Packet Monitoring

➤ Day 5

- Content Distribution
- The Web and Caching
- HTTP Requests
- Persistent Connections
- Content Distribution Networks (CDNs)
- Server Selection
- Content Routing
- Bit Torrent
- Solution to Freeriding: “Choking”
- Distributed Hash Tables
- Consistent Hashing

➤ **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.



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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

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