**Introduction to Networking Administration**



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

1. Scientific article on flash memory.
2. Training Room.
3. Training.
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| Price (USD) |
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