**Introduction to Networking**



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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**

* **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
* **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)
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