SDN FUNDAMENTALS: THE FUTURE OF NETWORKING

Course Code: 3327

Discover what SDN is and how it changes network services, applications, and roles within an organization.

For the past 20 years, networking has not been able to quickly respond to changing business demands. Software-Defined Networking (SDN) promises to change that. SDN empowers the business to control network behavior by emphasizing the software application instead of the network infrastructure. In this interactive course, you will learn what SDN is and how it is rapidly changing the future of networking.

This vendor-neutral course provides an open discussion on how SDN can:

• Allow more efficient provisioning of new services and applications
• Affect your role in your organization
• Reduce configuration time and errors
• Enhance security
• Enhance cloud computing

What You'll Learn

• SDN and its impact in the industry
• Business and technical challenges that SDN solves
• How SDN enhances cloud computing
• How SDN impacts your organization, your team, and you

Who Needs to Attend

Those interested in a high-level understanding of what SDN is and how it will change your business and the networking landscape
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Classroom Live Outline

1. Network Complexity and the Need for SDN
   - What Is a Network?
   - Growing Network Complexity
   - Technical Challenges of Complex Networks
   - Looking for a Solution

2. SDN: A New Solution
   - What is SDN?
   - The Planes
   - SDN Controllers
   - Communication Flows

3. Network Functions Virtualization (NFV)
   - NFV
   - Overlays
   - Exercise: SDN Controllers vs. Network Functions Virtualization

4. Deeper Dive into SDN
   - Imperative vs. Declarative SDN
   - NFV Overlay Network Technologies
   - Southbound Interfaces
   - Northbound Interfaces
   - Open-Source SDN Projects

5. The SDN Landscape
   - Categorizing SDN Solutions
   - Identifying Providers

6. Business Processes and SDN
   - DevOps
7. Business and Technical Challenges Solved by SDN
   • Use Case: Global Knowledge Labs
   • Your Challenges
   • Other Business and Technical Challenges
8. Cloud Computing and SDN
   • What is Cloud Computing?
   • What is Cloud Networking?
   • How Does SDN Enhance the Cloud?
9. SDN Impact on Applications
   • Today vs. Tomorrow
   • Network Visibility and Control
   • Application Examples
10. Your Role in SDN
    • Adopting SDN: Pros and Cons
    • IT Managers
    • Application Administrators
    • Security Administrators
    • Server Virtualization and Cloud Administrators
    • Network Administrators
11. Exercise: Identifying SDN Solutions to Business/Technical Challenges
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VIRTUAL CLASSROOM LIVE  $1,895 USD  2 days

Virtual Classroom Live Outline

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   Sep 19 - 20, 2019 | 8:30 AM - 4:30 PM EST
   Oct 31 - Nov 1, 2019 | 11:30 AM - 7:30 PM EST
   Dec 19 - 20, 2019 | 8:30 AM - 4:30 PM EST

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