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Content of Certified Cloud Computing Professional

Module 1: Basics of Network Technologies

- Network and its Types
- Transmission Modes
- Basics of IP addresses
- Networking Devices (Hub, Switch, Router, Repeater, Firewall)
- Ethernet LAN Cabling
- OSI Model
- Networking concepts, History of Server OS
- Introduction to Windows Server 2012 & 2016
- Features of Windows Server 2016
- Installation of Windows Server 2012, 2016 (Split Method)
- Installation of Standard and Data-Centre Server
- Installation of GUI and CLI Server
- Introduction and Creation of Users Accounts

Module 2: Windows Server 2016

- Installation, Network Configuration (Ethernet, Wifi etc)
- Resources and printer Management
- Managing Windows Server 2016 Environment
- Implementing Windows Server 2016 Network
- Implementing Security in a Windows Server 2016 Network
- Implementation of Exchange Server 2012/ 2016

Module 3: Active Directory Trusts

- Introduction to Trust Relationship
- Categories, Directions and Types of Trusts
- Domain Level and Functional/Forest Level
- One Way/Two way Trust
- Authentication Protocols
- Configuring Forest Trusts between 2016 Forests

Module 4: Member Servers, Clients, User Configuration

- Configuring Member Servers and Clients.
- Creating Users in AD-DS
- User Logon policies
- Password policies
- Account Lockout policies
- User properties
- User properties

Test 1: Includes Module 1 to 4

Module 5: Introduction to Cloud Computing

- Defining cloud computing
- Components of a computing cloud
- Differentiating types of clouds: public, private, hybrid
- Delivering services from the cloud
- Categorizing service types
- Comparing vendor cloud products: Amazon, Google, Microsoft and others
- Adopting the Cloud

Module 6: Introduction to Cloud Service

- Amazon Cloud Drive (S3)
- Google Drive
- Drop Box
- Box
- Mozy
- Cloudfuze
- Evernote
- Audio Box
- Moo
- Salesforce
- Appistry

Module 7: Exploring Software as a Service (SaaS)

- Streamlining administration with centralized installation
- Optimizing cost and performance with scale on demand
- Comparing service scenarios

- Improving collaboration with business productivity tools
- Simplifying business process creation by integrating existing components
- Describing Gmail, WebEx and Amazon Applications

Test 2: Module 5 to 7

Module 8: Exploring the technical foundation for PaaS

- Specifying the components of PaaS
- Analyzing vendor PaaS provisions
- Selecting an appropriate implementation
- Building services with solution stacks
- Evaluating the architecture of vendor-specific platforms
- Live implementation with, Amazon EC2, Microsoft Azure and Google App Engine

Module 9: Deploying Infrastructure as a Service (IaaS)

- Provisioning servers on demand
- Handling dynamic, Elastic IP and static IP addresses
- Tools and support for management and monitoring
- Accessing Amazon AWS management console
- Recognize AWS Global Infrastructure
- Security Majors

Module 10: Basic Ethical Hacking

Module 11: Networking Concepts used in Cloud Computing)

- VLAN
- Protocols
- IP Network Classes
- Switching
- Bandwidth
- Advances in Networking and Processing Speeds that Led to Cloud Computing
 - ✓ Networking Developments
 - ✓ Increased Processing Speeds

Module 12: Security

- SSL
- VPN
- Products and services provided by cloud computing companies

Test 3: Module 8 to 12

Module 13: Group Policy / System Policies

- User and Computer Policies
- Scope of Policies – OU, Domain, Sites
- Group Policy Object (GPO)
- Scripts, Folder Redirection
- Group Policy Preferences

Module 14: Profiles and File Server Resource Manager [FSRM]

- Types of Profiles – Local and Roaming
- Home Folder
- Configuring Quotas using FSRM
- Implementing File Screening using FSRM
- Configuring Storage Reports Management

Module 15: Distributed File System

- Creating Organizational Unit
- Delegating Control to a User
- Active Directory Recycle Bin
- DFS Namespace
- DFS Folders
- Software Deployment by DFS and Group Policy

Module 16: Dynamic Host Configuration Protocol (DHCP)

- Introduction and Configuration of DHCP Server
- DHCP Client Configuration
- Reservations
- DHCP Backup
- Configuring DHCP Failover

Module 17: Storage Options for Cloud Computing

- Storage Capacity
- Data Protection and partitioning
- NAS
- SAN
- Redundancy
- Replication
- Backup and Recovery

Module 18: Virtualization

- Student Virtualization Architectures
 - ✓ Hypervisor
 - ✓ Virtualization as the “Operating System”
 - ✓ Virtualization with a Host Operating System
- Virtualization Types
 - ✓ Type 1 Virtualized Environment
 - ✓ Type 2 Virtualized Environment
- Different Companies offering Virtualization Environments
 - ✓ VMware Workstation
 - ✓ Microsoft Virtualization
 - ✓ Linux/ UNIX Virtualization
- Hands-On of Virtualization Product (VMware)

Module 19: Cloud Monitoring and Management using VMware Product

- Typical architecture of private cloud and leading software solutions for implementing private cloud
- VMware v Sphere suite Introduction and Hands – On for Creating Cloud
- Some major components that Suite includes are
 - ✓ ESXI
 - ✓ V Sphere Client
 - ✓ V Center Server
- Planning and Designing of Private Cloud
- Introduction and Hands – On Microsoft Product

- This includes
 - ✓ Hyper-v installation
 - ✓ Prerequisites of Hyper-v installation
 - ✓ How to manage Hyper-v
- Amazon Cloud
 - ✓ Introduction
 - ✓ Architecture
 - ✓ Amazon's Cloud Components and their usage

Test 4: Module 13 to 19

Module 20: Basic Ethical Hacking + Web Security Module

Module 21: Project Work

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