

Current TOC for CIS-Datacenter

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1. IT infrastructure Overview

- IT Infrastructure Overview
- Introduction to IT Infrastructure
- Cost of Cloud Vs On Premise

2.

- a. Cloud Concepts - Principles of cloud computing
- b. Create an Azure account
- c. Core Cloud Services - Introduction to Azure
- d. Core Cloud Services - Azure architecture and service guarantees
- e. Core Cloud Services - Manage services with the Azure portal
- f. Core Cloud Services - Azure compute options
- g. Core Cloud Services - Azure data storage options
- h. Core Cloud Services - Azure networking options
- i. Security, responsibility, and trust in Azure
- j. Apply and monitor infrastructure standards with Azure Policy
- k. Control and organize Azure resources with Azure Resource Manager
- l. Predict costs and optimize spending for Azure

3. Networking Basics Recap

- a. Overview
- b. Types of Networking
- c. Network Topologies
- d. Protocols
- e. Network Media
- f. Network Cabling
- g. Crimping of twisted pair cable
- h. Patch Panel
- i. Network Devices
- j. Networking Devices
- k. Common Networking Devices
- l. IP addressing and Subnetting part -1
- m. IP addressing and Subnetting part -2
- n. IP Address - IPv4 vs IPv6 Tutorial
- o. Understanding IP Classes
- p. Subnetting

- q. The OSI reference model
- r. Headers
- s. OSI Model Explained
- t. What is IP Header?

4. Networking Admin

- a. Working with Packet tracer and GNS3
- b. Introduction to Cisco IOS
- c. Routing
- d. Switching
- e. Security and Firewall

5. Wintel Basics Recap

- a. Creating a Virtual Machine
- b. Types of Networking
- c. How to Install Windows Operating system
- d. Computer Hardware Basics
- e. Windows 10
- f. Windows 10 Versions and Releases
- g. Windows 10 Desktop
- h. Windows and One Drive
- i. Windows 10 and Edge
- j. Windows 10 and Cortana
- k. Windows 10 Getting Help
- l. Windows 10 Start Menu
- m. Windows 10 Installation
- n. Windows 10 Administration
- o. Windows Boot Process
- p. Windows 10-Minimum Requirement
- q. Enabling Hyper-v and Win 10 Installation
- r. Windows 10 Hyper-V
- s. Operating System Properties
- t. User Management
- u. Creating User from GUI
- v. Create Group from GUI
- w. Windows Updates
- x. Network Configuration
- y. Network Configuration
- z. Network Configuration
- aa. Control Panel Items
- bb. Control Panel Items
- cc. Basic Troubleshooting
- dd. Performance monitor
- ee. Performance monitor
- ff. Event Viewer
- gg. Remote Management
- hh. Remote Management

6. Windows Administration

- a. Introduction to Server Operating System
- b. Active Directory Terms
- c. Introduction to Active Directory
- d. Active Directory in a nutshell

- e. Forests and Trees
- f. Installation Methods
- g. Post Installation
- h. Creating a Domain
- i. Joining Client to Domain
- j. User and Users Profile
- k. Standalone and Blade Server
- l. Create and Install Windows 2016 Server
- m. NTFS Permissions
- n. NTFS Permissions
- o. NTFS Explicit and Inherited Permissions
- p. Advanced NTFS Permissions
- q. Domain Name System
- r. What is DNS?
- s. Remote Desktop Services
- t. Installing Remote Desktop Services
- u. Windows Native Tools
- v. Performance Monitor
- w. Event Viewer
- x. Disk Management
- y. Windows Backup
- z. Windows Server Backup

7. Linux Basics

- a. Introduction to Unix
- b. UNIX_SystemAdministration_1
- c. Linux Command-Line for Beginners:
- d. Linux Sysadmin Basic Commands
- e. UNIX_SystemAdministration_2
- f. Shell Features -- Pipes and Redirection
- g. Filtering Output and Finding Things
- h. Process Management
- i. Process Management - ps command
- j. Process Management - top command
- k. Process Management - Jobs command
- l. Process Management - Kill command
- m. UNIX Backup Tools
- n. Editing files using vi editor
- o. Using vi The basics

8. Linux Admin

- a. Redhat Enterprise Linux(RHEL) 7 Installation
- b. System Initialization and Services
- c. Understanding the Linux Boot Process
- d. RHEL 7 and basic systemd commands
- e. User Administration
- f. Linux File Permissions: Commands with Examples
- g. Network Configuration
- h. Performing Remote Connections And File Transfers
- i. Networking Configuration in RHEL 7
- j. Filesystem Management
- k. Linux Partitions and File System Layouts

- l. How To Create a Partition In Redhat 7 step by step
- m. How to Create and Delete a Disk Partition in Linux using the parted Command
- n. Logical Volume Manager
- o. Concept of LVM in Linux
- p. Logical Volume Management (LVM)
- q. Package Management using rpm
- r. Manage RPMs with RedHat Package Manager IN RHEL 7

9. ITIL

- a. Introduction to ITIL and ITSM
- b. What is ITIL?
- c. ITSM Introduction — ITSM
- d. Why ITSM — ITSM
- e. Basic concept of ITIL4 and RACI
- f. What Is ITIL V4?
- g. RACI Matrix
- h. Difference between ITIL v3 and ITIL 4
- i. Service Value System and Framework v0.1
- j. ITIL v4 Service Value Chain Defined
- k. Service Level Management and Change Control v0.1
- l. SLM Example - Explained using Pizza Delivery
- m. What is change Management
- n. What Is Change Management Flow
- o. Change Management- Example
- p. Service Management Practice Overview v0.1
- q. Event Management
- r. Incident Management v0.1
- s. Incident Management - Explained
- t. Prioritization
- u. Problem Management
- v. Problem Management - Explained
- w. Service Request Fulfillment

10. Database Basics

- a. Introduction to Database Management System (DBMS)
- b. Introduction to Relational Database Management System (RDBMS)
- c. Retrieving Data Using the SQL SELECT Statement
- d. The SQL SELECT Statement
- e. Restricting and Sorting Data
- f. Restricting and Sorting Data
- g. Using Single-Row Functions to Customize Output
- h. Using Single-Row Functions
- i. Reporting Aggregated Data Using the Group Functions
- j. Using Group functions
- k. Displaying Data from Multiple Tables Using Joins
- l. Get Data from Multiple Tables
- m. Using Sub queries to Solve Queries
- n. Subqueries to Solve Queries
- o. Manipulating Data
- p. Manipulating Data Questions
- q. Using DDL Statements to Create and Manage Tables
- r. Using DDL Statements

11. Storage Basics

- a. [Storage Basics](#)
- b. [Storage Topologies](#)
- c. [Storage Protocols](#)
- d. [Storage Area Network](#)
- e. [Storage Terms](#)
- f. [NAS Vs SAN](#)
- g. [What is RAID](#)
- h. [Raid Explained in Video](#)
- i. [Raid Levels](#)
- j. [Disk Management](#)
- k. [Manage Storage Spaces](#)
- l. [What is Bitlocker](#)
- m. [RAID 0 in Windows 10](#)
- n. [Windows Dynamic Disks](#)
- o. [Troubleshooting Disk Management](#)
- p. [How to Use Storage Space in Win 10](#)
- q. [FreeNAS](#)
- r. [FreeNAS Storage](#)
- s. [FreeNAS Pool](#)

12. Backup Basics

- a. [Introduction to backup](#)
- b. [Granularity of backup](#)
- c. [Backups, Redundancy, and the Cloud](#)
- d. [Backup Software](#)
- e. [Symantec Netbackup 7.5 Overview](#)
- f. [Networker Fundamentals - Free e-Learning](#)