Current TOC for CIS-Datacenter

Content
1. IT Infrastructure Overview -
2. Cloud Basics
3. Networking Basics
4. Networking Admin
5. Wintel Basics
6. Windows Admin
7. Unix Basics
8. Linux Admin
9. ITIL
10. Database Basics
11. Storage Basics

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. Priortization
   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