

## IT Essentials: (System, Networking, Virtualization, Cloud, & Security)

Lesson Number	Lesson Title
	<b>Windows System Administration</b>
Lesson 01	Create Bootable USB Drive for Windows & Linux OS
Lesson 02	Configure BIOS/UEFI to Install new Operating Systems
Lesson 03	Install Windows 10 Pro Operating System
Lesson 04	Install Third-Party Software in Windows 10 Operating System
Lesson 05	Configure Users and Groups and Set Ownership on Windows 10
Lesson 06	Install & Basic Settings of Windows 2019 Server Operating System
Lesson 07	Configure IPv4 Address on Windows 10 & WinSVR 19 Operating system
Lesson 08	Configure IPv6 Address on Windows 10 & Windows Server 2019
Lesson 09	Create additional partitions for Windows 10 Operating System
Lesson 10	Configure and settings Windows Defender Firewall
Lesson 11	Disk Cloning using Windows 10 Operating System
Lesson 12	Create System Backup and Restore on Windows 10 OS
Lesson 13	Reset and Re-install Windows 10 Operating System
Lesson 14	Windows 10 File Encryption (EFS)
Lesson 15	Configure Bit Locker on Windows 10 Operating System
Lesson 16	Securing Windows Workstations Environment
Lesson 17	Working with Windows Processes and Services
	<b>Virtualization &amp; Cloud Computing</b>
Lesson 18	Create Virtual Machine on VMware Workstation 16
Lesson 19	Install and Configure Hyper-V Based VM on Windows 10
Lesson 20	Install and Configure VMware ESXi Host Machine (vSphere 7.0)
Lesson 21	Create Virtual Machine on VMware vSphere 7.0 using ESXi Host
Lesson 22	Create and Windows Server 2019 VM on Azure Cloud
Lesson 23	Create and access Linux EC2 Instance on AWS Cloud

<b>Linux Essentials</b>	
Lesson 24	Install Red Hat Enterprise Linux 8 Operating System
Lesson 25	Install Ubuntu 20 LTS Version Operating System
Lesson 26	Working with Linux Command Line Interfaces (CLI)
Lesson 27	Configure IP Address on Linux OS (Ubuntu & RHEL 8)
Lesson 28	Install Packages on Linux Operating System (Ubuntu 20 & RHEL 8)

<b>Application and Services</b>	
Lesson 29	Configure Remote Access for Windows, Linux, AWS, & Azure
Lesson 30	Install and Configure Active directory on Windows Server 2019
Lesson 31	Create user and join Windows 10 to domain controller
Lesson 32	Install and Configure VNC Server and Client on Windows
Lesson 33	Configure FTP Server and Client on Windows 10
Lesson 34	Configure POP/IMAP for Email Client (Outlook/Thunderbird)
Lesson 35	Share File and Directories on Windows Operating Systems
Lesson 36	Configure MAP Drive on Windows 10 Operating System
Lesson 37	Share a Printer on Windows 10 Operating System
Lesson 48	Configure iSCSI SAN Storage Using Windows Server 2019
Lesson 39	Configure iSCSI Storage Client on Windows 10 Operating System
Lesson 40	Working with Domain and Hosting

<b>Networking Essentials</b>	
Lesson 41	Networking Utilities (Ping, Tracert, nslookup, route print, netstat, arp)
Lesson 42	Network Packet Analyzer using Wireshark
Lesson 43	Configure Network Address Translation (NAT) using MikroTik
Lesson 44	Configure Port Forwarding using MikroTik
Lesson 45	Install and Configure Remote Access VPN Client on Windows 10
Lesson 46	Configure DHCP Services (Server & Client) on Network Devices
Lesson 47	Configure Wireless Router (TPLink)
Lesson 48	Network and System monitoring using PRTG