Radical TECHNOLOGIES

AIX

AIX 7.1 TRAINING

By Industry Experts!!

Learn to install, customize, and administer the AIX operating system in a POWER (System p) partitioned environment. This course is based on AIX 7.1 running on a Power7 system managed by HMC version 7. This course is also appropriate for prior releases of AIX and has a high practical content.

This course suits for anyone with system administrative duties implementing and managing an AIX operating system in a multi user POWER (System p) partitioned environment.

Course Duration

40 hrs

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COURSE CONTENT

Chapter 1 : Introduction to AIX

Introduction to AIX includes RISC Technology, RISC Processors, RISC History,

POWERArchitecture, P-Series System Buses (PCI,ISA,MCA Buses) Uniprocessor , SMP and Cluster1600. Difference between SMP and SMT.

Chapter 2 : Introduction to IBM Hardware

Introduction to IBM Hardware include Series of Hardware in IBM, Introduction to POWER and History of POWER Hardware, POWER Hardware Generations, AIX evolutions.

Chapter 3 : UNIX Basics

Structure of Unix include Hardware, shell, kernel and Utilities and Application

Chapter 4 : Unix File System Hierarchy

Unix File System Hierarchy include file system Hierarchy

Chapter 5 : Boot Process in AIX

Boot Process in AIX include Modes of System startup, Startup Process in

AIX, Importance of /etc./ inittab file in boot process, Common Booting codes, Shutdown Process of AIX.

Chapter 6 : AIXS 6.1 and 7.1 OS installation

Basic Requirements for AIX OS Installation (AIX 6.1 and AIX 7.1) AIX Installation Methods.

Chapter 7 : Software Installation and Maintenance

AIX Product Offering, Packaging Definitions, Fileset Namings, Software updates, oslevel commands and AIX oslevel Naming. Types of Software upgrades, Software installations By geninstall, Software installations and Maintenance, Software Maintenance & Utilities, Instfix Commands, Integrity of the operating system commands. System Management Interface Tool (smit),smit Fast Paths, smit Features, smit Modes of operations.

Chapter 8 : Object Data Manager

What is Object Data Manager (ODM),Basic Components of the ODM, important ODM Database files, ODM Commands, Examples of using the ODM.

Chapter 9 : Device Management

Device Terminology, Types of Devices, Device Configuration Databases, Configuration Manager

(cfgmgr command),device Management commands, Device States, Remove a device Configuration, Modifying an existing device configuration,

Chapter 10 : RAID Levels

What is RAID, Types of

RAID`s, RAID Levels (RAID0, RAID1,RAID10, RAID5)

Chapter 11 : Logical Volume Manager (LVM)

Component of AIX Storage, Traditional Unix Disk Storage, Issue with Traditional Unix Disk

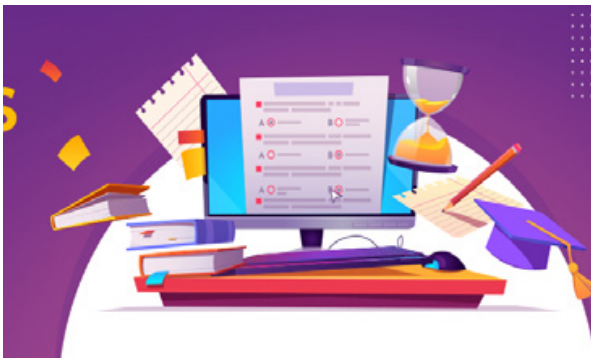
Storage, Benefit of the LVM, Logical Volume Components, Volume Group Types, Volume Group -t Factor, Limitations of logical volume storage, Volume Group Descriptor Area (VGDA), Quorum, Volume Group Status Area(VGSA),Logical Storage, Logical Volumes, LVM Mapping, Uses of Logical Volumes, Logical volume control block (LVCB),Physical Volume Allocation Policy, Logical Volume Mirroring, logical Volume Striping, Logical Track Group(LTG).

Chapter 12 : File Systems in AIX

What is File systems, Standard Filesystem in AIX ,AIX Supported Filesystems,/etc./filesystems descriptions, What Is Mount Points, Structure of a Journaled File System, File System Fragmentation, Difference between JFS and JFS2,System Storage Review.

Chapter 13 : Paging Space

What is Paging Space, Paging Space Placement, Creation of Paging Space, Paging Space Commands, Removing Paging Space, Paging Space Troubleshooting.



Chapter 14 : Networking Concepts

What is TCP/IP, Networking Architecture, Protocol,

Standard TCP/IP facilities, routes, Method to Configure the TCP/IP ,Basic TCP/IP Functions, Ethernet Naming Convention in AIX

Chapter 15 : Performance Monitoring in AIX

iostat, vmstat, netstat, ps, lsattr, lslv, nfsstat, topas, etc. Nmon Configuration in AIX.

Chapter 16 : Scheduling Jobs

Function of the Cron daemon, Starting of cron, crontab files, crontab commands, at command.

Chapter 17 : Backups

Why Backups, Types of Backups, Backup Devices, Device Naming in AIX, rootvg Backup Process, Tape layout of a mksysb image, backup Commands, Types of Paths, restore commands, Other Unix Backup Commands, tctl Command, Good Backup Practices.

Chapter 18 : User Administration

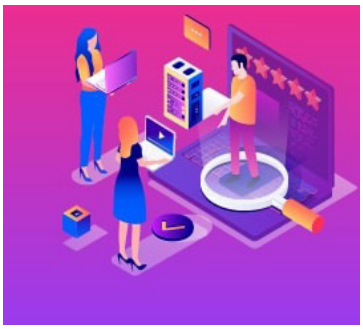
Default users in AIX, Default group in AIX, User Hierarchy, User Security Logs, User administration Commands, Login Sequence.

Chapter 19 : Overview of Network File System (NFS)

What is NFS,NFS Versions.

Chapter 20 : Overview of Network Installation Manager (NIM)

What is NIM, Basic NIM Components.



Chapter 21 : Overview of HACMP

What is HACMP, Basics

HACMP Components.

Chapter 22 : Overview of LPAR, DLPAR, VIOS

What is LPAR Basics of Lpar, What is DLPAR and What is VIOS.

Chapter 23 : Overview of Storage Area Network connectivity with AIX

SAN Connectivity with AIX, Description about HBA, Identification of Storage Volumes.

Chapter 24 : AIX Project Implementations in Lab

AIX Project Implementation in Lab include from System commission to decommission of system, AIX Project Implementations will help student to get confidence in all AIX terms.