

HPE XP Storage Array Administration and Configuration HK905S

This course introduces students to the XP7 array terminology, function, architecture, and configuration. Students will get hands-on practice with LUN and Volume Management, Data Replication, Cache Partitioning, Thin Provisioning, Auto LUN, Performance Advisor, and Resource Partitions. Learn to manage an XP Array using both the Remote Web Console GUI and the RAID Manager CLI. In addition we will cover the concepts of Continuous Access, Fast Snap, External Storage, XP7 High Availability, and Command View Advance Edition. This course is 60% lecture and 40% hands on labs.

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Course length

Delivery mode

HK905S

5 Days

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Audience

Storage administrators responsible for the configuration and management of HPE XP7 disk arrays

Prerequisites

- Knowledge of networks and the storage administration tasks for the
- OS being served by the array will be useful
- Accelerated SAN Essentials (UC434S) (Optional)

Course objectives

- Understand the hardware architecture of the HPE XP7 disk array
- Use Remote Web Console user interface to manage and view XP configuration information

- Use RAID Manager Command line to manage the array configuration
- Set the Fibre Port Topology for the XP ports
- Configure LUNs
- Use the Volume Manager to create Custom Size Volumes
- Understand how to implement LUN Security
- Handle multiple paths to a LUN
- Understand XP replication products: Business Copy, Fast Snap, and
- Continuous Access
- Understand how to use External Storage

^{*}Realize Technology Value with Training, IDC Infographic 2037, Sponsored by HPE, January 2016

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Detailed Course Outline

Module 1: XP7 Hardware	Architecture Overview	Component details
	Physical Layout	Terminology
Module 2: Remote Web Console	Management Options	Audit Logs
	Web Console Architecture	User management
	Web Client Requirements	Task Wizards
	License Key Management	Reporting tool
Module 3: Command Line Interface	Setup RAID Manager	Authenticate with SVP
	Send commands to SVP in-band and out of band	List array configuration
Module 4: Volume Management	Custom Volumes	DKA Encryption
	System Disk	Volume Shredder
	Quick Format	Data Retention
	Command Line for Volume Management	Logical Unit Size Expansion
Module 5: LUN Management	Fibre Port Management	Making storage available to hosts
	Host Groups	Create LUNs and Command Devices
	Host Modes	Using Configuration File Loader
	Management tools for LUNs	Command Line for LUN management
Module 6: Making LUNS visible to a host	Understand Host preparation before presenting LUNs	Automatic Path Failover
	Making LUN visible to hosts	Dynamic Load Balancing
	Understand the HP-UX Hardware path address for LUNs	Multi-Pathing Solutions
	Use of the XPInfo tool	
Module 7: XP Thin Provisioning and SMART Tiers	What is Thin Provisioning (THP)?	THP usage with partitioning
	THP operation sequence	THP DMT reads and writes
	THP pools	THP performance
	THP usage with other Program Products	THP Smart Tiers
	THP BC usage details	
Module 8: Cache Partitioning	With and without Cache Partitions	Cache Logical Partitions (CLPRs)
Module 9: External Storage	Overview and Features	Configure External Volumes
	External Storage Path Modes	Best Practices for P9000 External Storage
	Cache Mode	Power on and off order
	Use with Cache Partitions	Disaster Recovery Solutions using External Storage
	Configure External Ports	
Module 10: Auto LUN	Tiered Storage Approach	Auto LUN Tasks
	Auto LUN Migration	Auto LUN Migration configuration

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Module 11: Performance Monitor	Data collection	 Performance Monitor Export Tool
	Viewing collected data	Data export
Module 12: Performance Advisor	Product Overview	PA Licensing
	Collecting Array and Host Information	Configuration Data Collection
	Management Station — Components	 Creating Charts and New Alarms
	Host Agents and Clients	 Generating and Scheduling Reports
	 Installing and logging on to Performance Advisor 	•
	Performance Advisor GUI	
Module 14: Replication Overview	Business Copy Overview	Continuous Access Synchronous Overview
	Full copy vs. Fast Snap Comparison	Continuous Access Journal Overview
	Business Copy Operations and States	 XP7 High Availability Overview
	Continuous Access Overview	
Module 15: Resource Partitions	What are Resource Partitions	User Groups
	Physical Partitioning VS Logical Partitioning	Access Roles
	Resource Groups	
Module 16: Introduction to Command View Advanced Edition	Command View AE Features	Logical Group Concept
	Architecture	CVAE Host - Concept
	Device Manager Host Agent and Web Client	User Management Concepts
	GUI Highlights	

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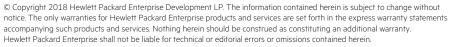












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