

IBM Storage Protect Training

5 days (35 hours)

Overview

IBM Storage Protect is a data protection solution that centralizes the backup, archiving, recovery, and management of critical data. With its retention policies, automation mechanisms, and tiered storage, it helps organizations build a reliable and controlled backup strategy.

Our IBM Storage Protect training will provide you with an operational understanding of the platform so you can manage backups, restores, and storage resources in a professional environment.

You will learn how to structure policy domains, management classes, storage pools, and retention rules. You will also learn how to register client nodes, configure backups, and set up a schedule tailored to operational constraints.

Upon completion of the training, you will be able to monitor operations, interpret logs, handle common incidents, and perform targeted or full restores. You will develop a rigorous approach to data protection and the validation of recovery capabilities.

This training also covers securing administrative access, optimizing processing, managing storage media, and best practices for maintenance. You will thus be able to use IBM Storage Protect with procedures tailored to requirements for availability, compliance, and business continuity.

Like all our training courses, this one will introduce you to **the latest stable version** of the technology and its new features.

Objectives

- Understand the architecture and key components of IBM Storage Protect.
- Configure backup, retention, and archiving policies.
- Administer client nodes, policy domains, and storage pools.
- Plan, monitor, and ensure the reliability of data protection operations.
- Perform restores and diagnose common operational issues.

Target Audience

- Systems Administrator
- Backup administrator
- Storage administrator
- Infrastructure Engineer
- Operations Manager

Requirements

- Knowledge of Windows or Linux system administration.
- Experience with backup, restore, and storage concepts.
- Basic understanding of TCP/IP networking and system service management.
- Basic proficiency with a command-line interface.

Technical Prerequisites

- Workstation running Windows 10 or Windows 11, with a recent web browser.
- 64-bit processor, at least 8 GB of RAM, and 20 GB of available disk space.
- Access to a hands-on lab environment including IBM Storage Protect 8.1 and a backup client.
- Stable network connection to the training platform, with access to the ports required by the environment.

IBM Storage Protect Training Curriculum

[Day 1 - Morning]

Architecture and Principles of Data Protection

- Positioning IBM Storage Protect within an enterprise backup strategy.
- Client-server architecture; roles of the server, nodes, and administration components.
- Differences between backup, archiving, recovery, and space management.
- Data lifecycle, concepts of versioning, retention, and compliance.
- Introduction to administration interfaces, commands, and key managed objects.

[Day 1 - Afternoon]

Logical Installation and Initial Administration

- Preparing the environment; system, network, and storage prerequisites.
- Organizing directories, the database, and configuration files.
- Logging into the administration interface, viewing status information, and navigating the environment.
- Creating the first accounts, roles, and authority levels for system, policy, storage, and operator.
- Hands-on workshop: Getting started with the IBM Storage Protect environment, logging in to the administration console and creating accounts with appropriate permissions.

[Day 2 – Morning]

Policies, Retention, and Management Classes

- The role of policy domains in backup governance.
- Structure of policy sets, management classes, and backup copies.
- Configuring retention rules, the number of versions, and inactivity periods.
- Distinction between backup policies and archiving policies.
- Activation, validation, and controlled evolution of policies in production.

[Day 2 - Afternoon]

Storage Resource Management

- Principles of device classes and storage pools.
- Volume organization, storage tiering, and data paths.
- Introduction to deduplication, compression, and their operational impacts.
- Capacity management, utilization monitoring, and growth forecasting.
- Hands-on Workshop: Create a backup policy and associate it with a storage pool for a fictional application environment.

[Day 3 - Morning]

Registering and configuring clients

- Creating and registering client nodes in IBM Storage Protect.
- Associating a node with a policy domain and defining access settings.
- Configuring the Backup Archive client on Windows and Linux.
- Reading option files, authentication, connectivity, and logging of processing operations.
- Exclusions, inclusions, and assignment of a management class based on protected data.

[Day 3 - Afternoon]

Backups and Automated Scheduling

- Backup modes, change analysis, and version management.
- Creating centralized schedules and associating them with client nodes.
- How the client scheduler, client acceptor, and communication modes work.
- Preventing processing overlaps and optimizing backup windows.
- Hands-on workshop: Register a client, configure a file backup, and schedule it to run automatically.

[Day 4 - Morning]

Data Restoration and Recovery

- Identifying backed-up versions and selecting data to restore.
- Restoring files, directories, and datasets to their original or alternative locations.
- Using retrieve functions to retrieve archived data.
- Best practices for restoration, validating data integrity, and ensuring traceability of operations.
- Recovery scenarios following deletion, corruption, or system unavailability.

[Day 4 - Afternoon]

Monitoring, Diagnostics, and Maintenance

- Reading task statuses, client logs, and server messages.
- Monitoring backup failures, sessions, volumes, and available capacity.
- Diagnosing connectivity, authorization, media, and policy issues.
- Routine maintenance, verification of processes, and management of pending operations.
- Hands-on workshop: Analyze a simulated backup failure, correct the configuration, and verify a return to normal operation.

[Day 5 - Morning]

Securing and Optimizing Operations

- Applying the principle of least privilege to administrative accounts.
- Securing access, password management, separation of duties, and audit trails.
- Protection of sensitive data, encryption, and best practices for data retention.
- Optimizing performance, bandwidth, processing windows, and storage resources.
- Developing metrics to monitor backup quality and recovery capabilities.

[Day 5 - Afternoon]

Full-scale administration simulation

- Review of administration objects, policies, nodes, and storage resources.
- Development of an operational procedure covering backup, monitoring, and restoration.
- Defining a plan for monitoring backups and conducting regular recovery tests.
- Analysis of recommendations to ensure robust and well-documented operations.
- Hands-on workshop: carry out an end-to-end scenario including policy creation, scheduled backups, monitoring of execution, and controlled restoration.

Target Audience

This training is intended for both individuals and companies—large or small—that wish to train their teams in new, advanced IT technologies or to acquire specific business knowledge or modern methods.

Pre-training Assessment

The pre-training assessment complies with Qualiopi quality standards. Upon final registration, the learner receives a self-assessment questionnaire that allows us to evaluate their estimated proficiency with various types of technologies, as well as their expectations and personal goals for the upcoming training, within the limits imposed by the selected format. This questionnaire also allows us to anticipate certain connection or internal security issues within the company (intra-company or virtual classroom) that could pose challenges for monitoring and ensuring the smooth operation of the training session.

Teaching Methods

Hands-On Training: 60% Practical, 40% Theoretical. Training materials distributed in digital format to all participants.

Organization

The course alternates between theoretical input from the instructor—supported by examples and reflection sessions—and group work.

Assessment

At the end of the session, a multiple-choice quiz is administered to verify that participants have successfully acquired the skills.

Certification

A certificate will be issued to each trainee who has completed the entire training program.