

Advanced Forensic Data Recovery and Acquisition

RAID+Data Base Training Course

Course Description

When dealing with RAID recoveries, the normal challenge is not so much the repair of the failed drive(s), if at all necessary, but rather the ability to rebuild the RAID correctly (otherwise, the data may appear corrupt). But No need to worry about successfully recover data from RAID using our technologies.

You will be taught by professional RAID teachers and can get the latest knowledge from them. The course will provide you with all the essential knowledge on RAID arrays and their functioning principles, as well as newest data storage systems. The training course starts with the basics and covers advanced features, so it will be a discovery both for novices and professionals. You will see which methods and procedures are the best way to successful data recovery.

Our comprehensive curriculum is well-rounded to meet your training requirements. MySQL, SQL server and Oracle database experts will deep dive into training to expand your skill set and become more marketable to employers.

You will learn how to get up and running with deployment, performance and management of your MySQL SQL server and Oracle. This course presents all the standard failure scenarios and the best recovery strategies for each. Backup strategies for cold backups, on-line backups, complete and partial backups are discussed. Extensive exercises allow students to simulate failures and perform actual recovery within the workshop.

Learning Objectives

- Deep knowledge, efficient methods and practical experience for successful data recovery from RAID
- Insight into variety of topics besides RAID: file system specifics, virtual machines, encrypted partitions, modern data storage systems, etc.
- New RAID technologies and tricks to recover data from RAID without tedious hex-editors
- To develop hands-on ability on Rebuild RAID
- To get best database recovery skills

Course Topics

RAID Recovery

1. Introduction and classification of RAID
2. Advantages of RAID technology
3. RAID: basic parameters
4. Defining the settings and creating an array
5. RAID integrity check
6. Common types of RAID faults
7. Common RAID data loss scenarios
8. Measures to be taken in time for RAID array failure

9. RAID data recovery and recovery technology
10. RAID type of judgment
11. Common RAID Level recovery methods
12. raid 0,1,5 Data Recovery

Hands-on Section

1. How to check if the RAID was built correctly
2. How to detect the outdated data
3. Redundancy-based recovery of update data
4. How to create virtual RAIDs in Data Extractor.
5. The main methods of working with virtual RAIDs
6. Data recovery from RAIDs containing failed HDDs
7. RAID configuration detection after RAID re-initialization
8. Case Study
9. Working with real cases (Provided by us)
10. Written and Practical examination

Database Recovery

1. Introduction to Database Recovery
2. Structures Used for Database Recovery
3. Basics knowledge of SQL-server, MYSQL and Oracle
4. Methods of Windows Forensics
5. SQL Server Architecture and Metadata
6. Physical Storage Structures
7. Index Design and Tuning
8. Query Processing and Query Plans
9. Optimization and Recompilation
10. Windows and Linux forensics methods
11. How to decrypt MYSQL password
12. Export and Recover data from MYSQL
13. Performing Oracle Advised Recovery
14. Performing User-Directed Recovery

Hands-on Section

1. How to Check database log
2. Recover deleted record table
3. Recover deleted database
4. Database Crash Recovery
5. Backup and Restore
6. Catalogs
7. password cracking

8. Case study
9. Forensic analysis of local server hacker attack case
10. Virtual machine Server Forensics analysis
11. The network gambling case forensics Analysis
12. Written and Practical examination

What you will get

This course is an Advanced level certification that certifies participants have gained a deeper understanding of the advanced recovery features of MYSQL, SQL-server and Oracle knowledge and practical skills. You will be able to handle any database environments with single and multiple partition databases. and it also will expand your forensic analysis capabilities of databases in search of deleted, hidden or maliciously or accidentally damaged data.

Customization

In order to meet different customer needs and help learners best achieve their learning goals, we provide opportunities for our clients to customize the course attributes, including time, place, close-door requirements, etc.