Publication date : 02/29/2024

Course : Authentication and authorization, architectures and solutions

Synthesis course - 2d - 14h00 - Ref. AAA
Price : 2020 CHF E.T.

4,5 / 5

This course proposes a methodological approach to the successful implementation of triple A services: Authentication, Authorization, Accounting. Thanks to the case studies presented, you'll learn how to avoid classic problems and choose the most appropriate solution for your company's needs.

Teaching objectives

At the end of the training, the participant will be able to:

- Understanding the AAA concept: Authentication, Authorization, Accounting
- Understand authentication and authorization mechanisms in different environments
- Know the different encryption and cryptography techniques
- Know how to use the various Authentication, Authorization and Accounting services
- Identify the different tools on the market

Intended audience

Network architects and project managers. IT decision-makers, especially those in charge of technology or infrastructure.

Prerequisites

Basic knowledge of technical architectures.

Course schedule

1 Introduction

- The AAA concept.
- Services provided.
- Market demand.

PARTICIPANTS

Network architects and project managers. IT decision-makers, especially those in charge of technology or infrastructure.

PREREQUISITES

Basic knowledge of technical architectures.

TRAINER QUALIFICATIONS

The experts leading the training are specialists in the covered subjects. They have been approved by our instructional teams for both their professional knowledge and their teaching ability, for each course they teach. They have at least five to ten years of experience in their field and hold (or have held) decision-making positions in companies.

ASSESSMENT TERMS

The trainer evaluates each participant's academic progress throughout the training using multiple choice, scenarios, hands-on work and more.
Participants also complete a placement test before and after the course to measure the skills they've developed.

2 Environments

- Microsoft authentication and authorization mechanisms.
- Authentication and authorization in the Unix world.
- Access methods to corporate networks.
- How do you access applications?

3 Technology

- Encryption techniques.
- MD5, AES, RSA algorithms, etc.
- Kerberos, Radius, PAM, LDAP infrastructures, etc.
- Verification protocols such as WindBind, SASL, GSSAPI, etc.
- APIs (JaaS...).
- Defining authorizations. Groups and roles.
- RBAC, PDP and PEP organization models.

4 Services and architectures

- Strong authentication.
- SSO and WebSSO single sign-on.
- Centralize authentication.
- Authentication/Authorization/Centralized attributes.
- Password management.
- Digital keys and certificates.
- Authorizations.
- Accounting and auditing.

5 Market products

- An overview of Open Source solutions.
- CAS, OpenSSO, tripleSec applications, etc.
- Commercial products.
- TAM, TIM, IDM, OAS software, etc.
- Advantages and disadvantages.

6 Conclusions

- Understanding needs.
- Evaluate the most appropriate solution.
- Tomorrow's solutions.

TEACHING AIDS AND TECHNICAL RESOURCES

• The main teaching aids and instructional methods used in the training are audiovisual aids, documentation and course material, hands-on application exercises and corrected exercises for practical training courses, case studies and coverage of real cases for training seminars.
• At the end of each course or seminar, ORSYS provides participants with a course evaluation questionnaire that is analysed by our instructional teams.
• A check-in sheet for each half-day of attendance is provided at the end of the training, along with a course completion certificate if the trainee attended the entire session.

TERMS AND DEADLINES

Registration must be completed 24 hours before the start of the training.

ACCESSIBILITY FOR PEOPLE WITH DISABILITIES

Do you need special accessibility accommodations? Contact Mrs. Fosse, Disability Manager, at psh-accueil@orsys.fr to review your request and its feasibility.

Dates and locations

REMOTE CLASS
2026 : 31 Mar., 11 June, 22 Sep., 10 Dec.