Cloud Administrator, bootcamp (4 months) (Titre RNCP)

by DataScientest

Practical course - 19d - 133h00 - Ref. 3AO

Price : 6990 CHF E.T.

NEW

Become an expert in cloud-based infrastructure management. From management and deployment to infrastructure security, Cloud administrators play a key role in managing an organization's environments. This certification course is delivered remotely in a hybrid format combining synchronous exchanges with an expert trainer, practical exercises and e-learning modules. Based on the Learning By Doing pedagogy, you will carry out a team project to put your knowledge into practice. When you enroll, you will be assigned to one of the Datascientest promotions. At the end of the course, you'll be awarded RNCP Level 6 certification as a "Secure Infrastructure Administrator", issued by the French Ministry of Labor and registered with the RNCP under no. RNCP37680. Contact us now to find out about upcoming dates!

Teaching objectives

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

- Manage and secure infrastructures.
- Design and implement a solution in response to an evolutionary need.
- Participate in cybersecurity management.

Intended audience

Anyone with an appetite for network and cloud management who wants to retrain or upgrade their skills.

Prerequisites

Un diplôme ou un titre de niveau bac+4 ainsi que des connaissances en réseaux.
Pour les candidats ne présentant pas le niveau de qualification requis, une dérogation est possible sur dossier.

PARTICIPANTS

Anyone with an appetite for network and cloud management who wants to retrain or upgrade their skills.

PREREQUISITES

Un diplôme ou un titre de niveau bac+4 ainsi que des connaissances en réseaux.
Pour les candidats ne présentant pas le niveau de qualification requis, une dérogation est possible sur dossier.

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.

Certification

At the end of the course, the teaching team will evaluate the student's project with a written report and a viva which will take place in Paris. In addition, a minimum 350-hour work placement is required to validate the qualification. Validation of the skills developed during the Cloud Administrator course will enable you to obtain : Level 6 RNCP certification as a "Secure Infrastructure Administrator", issued by the French Ministry of Labor and registered with the RNCP under n°RNCP37680.

Practical details

Digital activities

Online courses and exercises, group masterclasses, question/answer sessions, support classes, e-mail coaching, red thread projects, individualized career coaching, social learning.

Mentoring

An expert trainer accompanies learners throughout their training. He or she regularly discusses the learner's project and provides individual mentoring. Several trainers also lead the various masterclasses (group classes) and answer learners' questions at any time from a dedicated forum. In addition, numerous question-and-answer sessions can be organized to help learners.

Pedagogy and practice

Upon registration, the learner is assigned to a class (dates to be defined at the time of registration) and receives a training schedule. The training program is divided into "Sprint" sessions lasting several weeks on a dedicated theme. Each week, the learner is invited to a time of exchange with the trainer, in the form of a masterclass (group class) or mentoring sessions (individual). For 80% of the time, the learner works independently on the teaching platform. All modules include practical exercises to put into practice the concepts developed in class. Learners are also required to work in pairs or trios on a common theme throughout the course. This will enable them to develop and gain recognition for their skills. In addition, themed events and workshops are regularly offered to enable learners to discover the latest innovations in networks and the Cloud. In order to follow the course effectively, we estimate that 35 to 40 hours per week are required.

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.

Course schedule

1 Upcoming session dates

- November 2025: Start date 04/11/25
- January 2026: Start date 01/13/26
- March 2026: Start date 03/03/26

2 Fundamentals

- Operating systems: operating principles, resource management, memory, processes, etc.
- Operating system administration: installation, configuration, maintenance, security, etc.
- The different types of operating system.
- Installation and configuration of an operating system.
- Database services.
- Network architecture.
- Communication protocols.
- IP addressing.
- Network configuration.

3 Systems and network administration

- Manage users, groups and permissions.
- System security configuration.
- Network architecture.
- Communication protocols.
- IP addressing.
- Network configuration.
- Server installation and configuration.
- Service and application management.
- Monitor server performance.
- Server security and backup.
- Computer networks: OSI and TCP/IP models, communication protocols, network administration, etc.

4 Virtualization and Cloud

- Cloud-native architecture principles.
- Microservices and service-oriented architecture.
- Design patterns for cloud-native applications.
- Application integration on the AWS Cloud.

5 Application architecture & automation

- Identify and solve system and network problems.
- Management of security incidents and problems.
- Change and update management.
- Continuous improvement of system and network.
- Data backup.
- Data recovery.
- Data recovery tests.
- Business continuity planning.
- Network monitoring tools: Nagios, Zabbix, Centreon, etc.
- Security incident management: detection, analysis, resolution, etc.

6 Governance in information systems security

- Basic principles of computer security.
- Access and authentication management.
- Certificate and key management.
- Manage firewalls and network security policies.
- Compliance with regulations such as RGPD.
- Network security: firewalls, VPN, SSL/TLS, SSH, etc.
- Cryptographic principles: symmetrical and asymmetrical encryption, hash functions, digital signature.

7 Advanced security

- Container control and management.
- Control and management of virtual networks.
- Control and management of storage disks.
- Mastery and management of infrastructure management tools: Terraform, Ansible.

8 Design, implementation and management of IT infrastructure

- Needs analysis.
- Infrastructure design.
- Setting up the infrastructure.
- Service integration.
- Security and access management.
- Project report and documentation.