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Sign up

Vantage DC Training

3 days (21 hours)

Presentation

Vantage DC is a hyperscale data center operator that designs modular, high-performance campuses to host mission-critical workloads. This infrastructure platform for the cloud and large enterprises offers environments designed for energy efficiency, security and scalability.

Our Vantage DC training will enable you to align your DevOps practices with physical infrastructure: automate provisioning with Infrastructure as Code, integrate CI/CD chains, instrument observability and strengthen multi-site resilience. You'll be able to leverage key metrics (PUE, SLA) and industrialize operations.

What's more, Vantage DC adapts from traditional architectures to cloud-native deployments. At the end of this training course, you'll know how to design robust topologies, automate deployments and structure sustainable operational excellence.

Like all our training courses, this one presents the state of the art in DevOps best practices applied to Vantage DC infrastructures.

Objectives

- Align DevOps and Vantage DC data centers (automation, CI/CD, IaC).
- Monitor and optimize performance, PUE and SLA.
- Strengthen security, resilience and observability.

Target audience

- DevOps engineers in data center / cloud environments.
- System/cloud administrators with a DevOps approach.

Prerequisites

- Basic knowledge of DevOps, CI/CD and IaC (e.g. Terraform, Ansible).
- Initial experience in systems/cloud administration.
- Knowledge of monitoring and operational metrics.

Vantage Data Centers training program

Vantage DC infrastructures and hyperscale architecture

- Overview of Vantage DC campuses and hyperscale architecture
- Modular deployment models and accelerated commissioning
- PUE, SLA and energy efficiency indicators
- Physical infrastructure security and compliance issues
- Practical workshop: mapping a campus and its technical zones (guided exercise)

Provisioning and automated configuration

- From Rack-Ready to Build-to-Suit: hosting options
- Network/energy automation with Infrastructure as Code (IaC)
- CI/CD chains for infrastructure deployment
- Observability and operational excellence
- Practical workshop: IaC pipeline for configuring a Rack-Ready module

Monitoring and continuous operations

- Real-time metrics, supervision and dashboards
- Alerting, incident management and post-mortems
- Log integration, tracing and observability
- DevOps culture applied to data centers
- Practical workshop: creating an operational alert dashboard

Scalability and multi-site resilience

- Scale-up / scale-out and capacity management
- Business continuity: power redundancy and connectivity

- Multi-region architecture (NA/EMEA/APAC)
- Load testing and fault tolerance
- Practical workshop: designing an active/active architecture on 2 sites

Integrated security: physical, network and cloud

- Access policies, video surveillance, badges and audits
- SIEM integration and event correlation
- Control automation via DevSecOps pipelines
- Regulatory compliance and hardening
- Practical workshop: automated access audit runbook

Governance and operational sustainability

- ESG initiatives and net-zero targets
- Automated environmental reporting
- Data-driven transparency and governance
- Ops/Dev/Facilities/Security collaboration
- Practical workshop: energy reporting pipeline (PUE/CO?eq)

Advanced automation and CI/CD pipelines

- Optimizing multi-site CI/CD pipelines
- Large-scale configuration management
- Incremental deployment and rollback
- Change management and approvals
- Practical workshop: deploying additional multi-region capacity

Performance, REX and continuous improvement

- KPI monitoring: SLA, availability, MTTR
- Collecting feedback and improvement loops
- Kaizen practices and standardization
- Tool-based continuous improvement plan
- Practical workshop: building a data-driven improvement plan

Operational deployment and adoption plan

- Go-live checklist
- Skills transfer and runbooks
- Staged adoption plan and governance
- Value measurement and communication
- Practical workshop: integrating mini-project (from IaC to supervision)

Companies concerned

This course is aimed at both individuals and companies, large or small, wishing to train their teams in a new advanced IT technology, or to acquire specific business knowledge or modern methods.

Positioning on entry to training

Positioning at the start of training complies with Qualiopi quality criteria. As soon as registration is finalized, the learner receives a self-assessment questionnaire which enables us to assess his or her estimated level of proficiency in different types of technology, as well as his or her expectations and personal objectives for the forthcoming training course, within the limits imposed by the selected format. This questionnaire also enables us to anticipate any connection or security difficulties within the company (intra-company or virtual classroom) which could be problematic for the follow-up and smooth running of the training session.

Teaching methods

Practical course: 60% Practical, 40% Theory. Training material distributed in digital format to all participants.

Organization

The course alternates theoretical input from the trainer, supported by examples, with brainstorming sessions and group work.

Validation

At the end of the session, a multiple-choice questionnaire verifies the correct acquisition of skills.

Certification

A certificate will be awarded to each trainee who has completed the entire course.