AMBIENT-IT

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Sign up

Better Stack Training

3 days (21 hours)

Presentation

Better Stack is a modern observability and incident management platform that unifies logging, monitoring, tracing and real-time communication. Our Better Stack training course will enable you to master the entire observability cycle: centralizing logs, creating dashboards, defining key metrics, managing alerts, integrating with your CI/CD pipelines and setting up distributed traces.

You'll discover how to exploit internal and public status pages and implement efficient incident management processes.

You'll learn how to instrument your applications, detect bottlenecks, optimize your costs and set up comprehensive operational monitoring.

At the end of the course, you'll be able to deploy and configure Better Stack in a cloud environment and fully integrate it into your DevOps workflows.

Like all our training courses, this one is based on the latest stable version of Better Stack.

Objectives

- Understand the concepts of unified observability with Better Stack
- Centralize and analyze application and system logs
- Set up dashboards and key metrics
- Set up intelligent alerts and manage incidents
- Integrate Better Stack into a CI/CD pipeline with Terraform and GitHub Actions
- Leverage distributed tracing to optimize performance

Target audience

- DevOps engineers
- Backend developers
- SRE teams

Prerequisites

- Basic knowledge of DevOps and systems
- Notions of monitoring and logs

Better Stack training program

[Day 1 - Morning]

Introduction and architecture of Better Stack

- Unified observability philosophy with Better Stack
- Overview of modules: logs, monitoring, status pages, incident management
- Positioning vs. ELK, Grafana, Datadog
- Key concepts: real-time, SLA/SLO/SLI, intelligent alerting
- Initial deployment and getting to grips with the interface
- Practical workshop: Create an account and configure a first project.

[Day 1 - Afternoon]

Log management and supervision

- Collecting and centralizing application and system logs
- Queries, filters and analysis pipelines
- Retention, quotas and archiving
- Log governance: naming, rules, responsibilities
- Security and access control
- Practical workshop: Setting up a log stack for a backend app.

Dashboards and real-time metrics

- Creating customized dashboards
- Integration of system and application metrics
- Availability probes (health checks)
- Monitoring: latency, error rate, throughput
- SLI/SLO control
- Practical workshop: Building a multi-service dashboard.

[Day 2 - Morning]

Alerting and incident management

- Designing intelligent alerts and critical thresholds
- Escalations and notifications (Slack, Teams, email, SMS, Webhooks)
- Incident response workflow and collaboration
- Communication via internal and public status pages
- Post-mortems and continuous improvement
- Practical workshop: Incident simulation and alert triage.

[Day 2 - Afternoon]

CI/CD integration and Infrastructure as Code

- Automation with Terraform and GitHub Actions / GitLab CI
- CI/CD pipeline monitoring and regression detection
- Blue/green and canary release strategies
- Pipeline-integrated performance testing
- Multi-cloud best practices and idempotence
- Practical workshop: CI/CD pipeline with Better Stack.

Security, compliance and best practices

- Authentication, RBAC and access management
- Data protection: encryption, masking, secrets
- RGPD compliance, logging and auditability
- Resilience and fault tolerance
- Operational hygiene standards
- Practical workshop: Defining a safety and auditing policy.

[Day 3 - Morning]

Distributed tracing and performance

- Principles of distributed tracing and OpenTelemetry
- Application instrumentation (services, middleware, DB)
- End-to-end dependency and latency analysis
- Correlation of logs - metrics - traces
- Optimizing microservices
- Practical workshop: Tracing a microservices API.

[Day 3 - Afternoon] Optimization

and FinOps

- Cost model: log volumes, retention, cardinality
- Alert noise reduction and deduplication
- Anti-patterns and good collection practices
- DevOps KPIs and management dashboards
- Continuous optimization plan
- Practical workshop: Audit and optimization of an environment.

Case studies and production implementation

- Production scenarios: startup vs. scale-up vs. enterprise
- Runbooks, SOPs and SRE rituals
- Governance, roles and responsibilities
- Tool comparison and selection criteria
- Adoption roadmap and change management
- Practical workshop: Full deployment & disaster recovery.

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.