

# OpenTelemetry Certified Associate (OTCA)

A Cloud Native Computing Foundation (CNCF) Publication  
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## OpenTelemetry



**CLOUD NATIVE**  
COMPUTING FOUNDATION

This document provides the curriculum outline of the Knowledge, Skills and Abilities that an OpenTelemetry Certified Associate (OTCA) can be expected to demonstrate.

## OpenTelemetry Certified Associate (OTCA)

### 18% - Fundamentals of Observability

- Telemetry Data
- Semantic Conventions
- Instrumentation
- Analysis and Outcomes

### 10% - Maintaining and Debugging Observability Pipelines

- Context Propagation
- Debugging Pipelines
- Error Handling
- Schema Management

### 46% - The OpenTelemetry API and SDK

- Data Model
- Composability and Extension
- Configuration
- Signals (Tracing, Metric, Log)
- SDK Pipelines
- Context Propagation
- Agents

### 26% - The OpenTelemetry Collector

- Configuration
- Deployment
- Scaling
- Pipelines
- Transforming Data



# OpenTelemetry



Cloud native computing uses an open source software stack to deploy applications as microservices, packaging each part into its own container, and dynamically orchestrating those containers to optimize resource utilization. The Cloud Native Computing Foundation (CNCF) hosts critical components of those software stacks including Kubernetes, Fluentd, Linkerd, Prometheus, OpenTracing and gRPC; brings together the industry's top developers, end users, and vendors; and serves as a neutral home for collaboration. CNCF is part of The Linux Foundation, a nonprofit organization. For more information about CNCF, please visit: <https://cncf.io/>.