

NetEye Elastic Observability Training Agenda

Condensed overview of objectives, key topics and practical labs

Module Title	Module Purposes	Day
Observability Fundamentals and Data Collection	Objectives: Understand observability principles and the role of NetEye and Elastic; follow the collection, transport and indexing of observability data; configure agents for hosts, containers and orchestrators. Key topics: The three signals: logs, metrics and traces; Elastic Observability architecture; Elastic Agent and Fleet; APM Agents and APM Server; Elasticsearch, Kibana, OpenTelemetry and OTLP; System, Docker and Kubernetes integrations; indexes, mappings and data streams. Practical lab: Install and configure Elastic Agent; enable host, Docker and Kubernetes integrations; verify data in Kibana; troubleshoot an OpenTelemetry pipeline with port errors, missing attributes and restrictive filters.	Day 1
APM, Infrastructure and Synthetic Monitoring	Objectives: Analyse application performance; identify bottlenecks, errors and latency; correlate metrics, traces and logs; configure synthetic checks for application availability. Key topics: APM Agents, transactions and sampling; Service Inventory and Service Map; slow transactions and error hotspots; infrastructure and cloud monitoring for AWS, GCP and Azure; host, process, container and pod visibility; Real User Monitoring; HTTP, TCP and ICMP checks; single-page and multi-step journeys. Practical lab: Investigate a slow transaction using the trace waterfall; correlate the bottleneck with metrics and logs; configure an HTTP and multi-step monitor; analyse a successful HTTP check with a failed login journey using RUM, APM and deployment data.	Day 2

Module Title	Module Purposes	Day
SLO, Alerting, Machine Learning and Advanced Use Cases	Objectives: Define reliability targets and monitor error budgets; create actionable alerts; understand Machine Learning use cases in observability; perform structured root cause analysis; monitor hard-to-instrument Windows applications with Alyvix. Key topics: SLIs, SLOs, error budgets and burn rates; alerting for availability, latency, error rates and anomalies; CI/CD observability; Anomaly Detection, Outlier Detection, classification, regression and AIOps Labs; Alyvix visual monitoring integrated with NetEye. Practical lab: Configure an SLO and fast and slow burn-rate alerts; simulate an incident and correlate alerts, metrics, traces and logs; detect progressive degradation with Machine Learning; create an Alyvix test on Windows and verify the result in NetEye. Reference scenarios: Midnight latency spike; broken OpenTelemetry pipeline; application bottleneck; silent synthetic canary; SLO burn rate; progressive Machine Learning anomaly; visual Alyvix monitoring.	Day 3