

Day - 1

- **Uptime**

- Configure and run Heartbeat to determine the uptime of a process or service
- Use Heartbeat to determine if a service is reachable via ICMP, TCP or HTTP
- Use the Uptime app in Kibana to monitor the uptime and availability of a service

- **Metrics**

- Configure and run Metricbeat to collect metrics from an operating system
- Enable and configure a Metricbeat module to collect the metrics of a specific service
- Use the Metrics app in Kibana to analyze and answer questions about metrics collected in Elasticsearch
- Configure Metricbeat to gather Stack Monitoring data

- **Logging**

- Configure and run Filebeat to collect system logs
- Enable and configure a Filebeat module to collect the logs from a specific service
- Configure and run Filebeat to tail a given log file
- Use the Logs app in Kibana to analyze and answer questions about log events collected in Elasticsearch
- Use the Logs app to view and analyze the predefined machine learning jobs for log events
- Configure Filebeat to gather Stack Monitoring data

- **APM**

- Configure an APM Server to send data to an Elasticsearch cluster
- Enable RUM on an APM Server
- Use the APM app in Kibana to analyze and answer questions about APM data collected in Elasticsearch

- **Structuring and Processing Data**

- Use Kibana to edit or define an ingest node pipeline
- Configure Metricbeat or Filebeat to use an ingest pipeline
- Define ingest node pipelines that use the various processors, including (but not limited to) append, convert, date, dissect, dot expander, geoip, grok, fail, json, remove, rename, set, and split
- Define an ingest node pipeline that loads event data from an existing Elasticsearch index

- **Working with Observability Data**

- Find anomalies in Observability data using the predefined machine learning jobs in Kibana
- Define a machine learning job in Kibana on Observability data
- Define or edit an Index Lifecycle Management policy for indices
- Define an alert using Kibana Alerts