5. Instrumentation

└ 5.1 Monitoring Setup

└ 5.1.2 Telemetry with App Insights, VM/Container/Storage/Network Insights

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1. What telemetry data does Application Insights collect by default?
2. How do you enable Application Insights in an app or service?
3. How do you instrument custom telemetry with Application Insights SDK?
4. What is VM Insights and what telemetry does it collect?
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7. How is Container Insights configured on AKS?
8. How do Storage Insights enhance storage monitoring?
9. What metrics are available from Network Insights?
10. How can telemetry from these Insights be correlated in Log Analytics?

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1. What telemetry data does Application Insights collect by default?

- Requests,
- dependencies,
- exceptions,
- traces,
- page views,
- performance counters,
- and availability test results.

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2. How do you enable Application Insights in an app or service?

Use *Azure Portal* during resource creation, or manually integrate SDK (e.g., .NET, Node.js) and configure instrumentation key or connection string.

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3. How do you instrument custom telemetry with Application Insights SDK?

Use SDK methods like `TrackEvent`, `TrackMetric`, `TrackTrace`, `TrackException` to send custom telemetry. Context properties can be added for traceability.

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4. What is VM Insights and what telemetry does it collect?

It provides performance metrics (CPU, memory, disk, network), dependency maps, and process info for Azure/Arc VMs.

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5. How do you enable VM Insights on Azure VMs?

Enable from the *Azure Monitor blade or VM → Insights → Enable*. This deploys the monitoring agent and connects to a *Log Analytics* workspace.

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6. What is Container Insights and what data does it gather?

It collects container performance (CPU, memory), node health, pod logs, and Kubernetes event logs for AKS or other clusters.

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7. How is Container Insights configured on AKS?

Enable monitoring during AKS creation or later from the *Azure Portal → Insights*. *Azure Monitor* agent is deployed to collect telemetry.

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8. How do Storage Insights enhance storage monitoring?

They provide metrics like

- capacity,
- transactions,
- latency,
- and availability per blob/table/file/queue

via diagnostic settings sent to Log Analytics.

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9. What metrics are available from Network Insights?

Metrics include

- throughput,
- packet loss,
- latency,
- SNAT port exhaustion,
- and flow data

from NSGs, Load Balancers, and VPN gateways.

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10. How can telemetry from these Insights be correlated in Log Analytics?

All telemetry streams into the same *Log Analytics* workspace and can be queried using KQL. Use joins and time filters to correlate across services.