Monitoring Infrastructure

Grafana — query → Prometheus — alerts → AlertManager

Application Infrastructure

Linux Server 1..N

node_exporter

Docker Services ⇢ cAdvisor

Windows Server

windows_exporter

MS SQL Server ⇢ prometheus-mssql-exporter

Prometheus → scrape → node_exporter
Prometheus → scrape → windows_exporter
Prometheus → scrape → cAdvisor
Prometheus → scrape → prometheus-mssql-exporter

Prometheus Target Config
- static_config: stable infrastructure
- sd_config: dynamic discovery
  - file_sd_config, dns_sd_config, http_sd_config

Main Metrics
- node_*, windows_*: server resources
- container_*: application resources and container health
- up metric: service availability. If not enough see Blackbox exporter
- mssql_*: DB metrics - connections, page r/w, errors, transactions, deadlocks

AlertManager Config, example alerts
- CPU: > 90% for 5 min
- Memory: Available < 10% for 5 min
- MS SQL: mssql_connections > threshold for 5 min, deadlock rate > 0 for 1 min
- up = 0 for 1 min

Grafana Config
- Prometheus as primary data source
- Linux servers node_exporter metrics dashboard (USE - cpu, memory, network, disk)
- Windows servers windows_exporter metrics dashboard (USE - cpu, memory, network, disk)
- MS SQL specific metrics (USE/RED, connections, page r/w, errors, transactions, deadlocks)
- Service availability and container health (prometheus up, or probe metrics, container health metrics)
- App metrics, if available (RED, focused on errors and latency/duration)

Optional: Blackbox Exporter
- Probe app availability outside internal network