ServerWatch – Technical Document

Overview

ServerWatch runs on MLNOESQLTEST01 and monitors whether MLNOESQLEXP01 is reachable. It posts alerts to Microsoft Teams when the server appears DOWN and RECOVERED messages when it comes back online. The latest version improves logic and state handling.

Latest features

- Up = Ping OR any reachability port succeeds (not AND).
- Default reachability port = 1433 (SQL listener).
- RECOVERED fires if prior state was Down or Unknown.
- Robust state load prevents repeated RECOVERED spam.
- Alerts include UTC and Local timestamps.

Architecture

- Task Scheduler on MLNOESQLTEST01 runs script every minute.
- Script path: C:\Monitors\ServerWatch.ps1.
- Task action: powershell.exe -NoLogo -NoProfile -ExecutionPolicy Bypass -File "C:\Monitors\ServerWatch.ps1" (Start in: C:\Monitors).
- Alerts: Microsoft Teams webhook → Data Warehouse / Server Alerts channel.
- State file: stored alongside the script in C:\Monitors (default).

Configuration (key values)

Setting	Value
TargetName / Host	MLNOESQLEXP01
ReachabilityPorts	@(1433)
FailAfter	3
CooldownMinutes	5
PingTimeoutMs / TcpTimeoutMs	1500 / 1500 ms
StateFile	C:\Monitors\ServerWatch.state.json

Testing scenarios

- Force DOWN then RECOVERED: FailAfter=1, Cooldown=0, ReachabilityPorts=@(65000) → run once → ALERT. Revert to @(1433) → run again → RECOVERED.
- State reset: delete C:\Monitors\ServerWatch.state.json. Next successful run sends RECOVERED.

Known limitations

- Depends on TEST01 being up; if both PROD and TEST down, alerts missed.
- Alert latency = FailAfter × task frequency.

- Teams webhook failures → alert not delivered.

Change log

Latest: OR logic; default port 1433; RECOVERED on Unknown; robust state load; UTC + Local times.

Initial: Teams-based monitoring with Task Scheduler and state file.