

XI. Logs

“Treat logs as event **streams**”



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What are logs?

- Logs are the **stream** of aggregated, time-ordered events collected from the output streams of all running processes and backing services.
- Logs, in their raw form, are typically a **text format** with one event per line.
- Logs have no fixed beginning or end, but **flow continuously** as long as the app is operating.

The Twelve-Factor App

I. Codebase

II. Dependencies

III. Config

IV. Backing Services

V. Build, Release, Run

VI. Processes

VII. Port Binding

VIII. Concurrency

IX. Disposability

X. Dev/Prod Parity

XI. Logs

XII. Admin Processes