

XI. Logs

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.

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- A twelve-factor app **never concerns itself** with routing or storage of its output stream; it should not attempt to write to or manage log files.
- Instead, each running process should write its **event stream, unbuffered**, to **stdout**.