

# The pros and cons of the Event Sourcing architecture pattern

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Having a grasp of common architectural patterns is essential to designing software architecture at scale. Using them saves not only time but also ensures a reliable implementation of your design. There's no need to reinvent the wheel when there's an architectural pattern available that applies to an architecture you're developing.

The following is a brief overview of the Event Sourcing architectural pattern.

The Event Sourcing pattern involves sending a continuous stream of messages to an authoritative storage target. Each message describes an event in the system. Examples include: A write to the database, request to a web server, or logging activity from within an application. Services and applications then query the event store for interesting events in a way that is particular to the purpose of the given service or application.

Pros

Cons

Event Sourcing is gaining popularity as more applications need real-time data delivered in an asynchronous yet ordered manner, for example, ride-share applications. Also, Event Sourcing is gaining wide acceptance as a way to consume and manage applications' log data at web-scale. As mentioned above, an event source can serve as a common point of truth for applications regardless of how the given application intends to process the data.

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