# Pattern: Audit logging

## Context

You have applied the Microservice architecture pattern (../microservices.html).

## Problem

How to understand the behavior of users and the application and troubleshoot problems?

## Forces

- It is useful to know what actions a user has recently performed: customer support, compliance, security, etc.

## Solution

Record user activity in a database.

## Examples

This pattern is widely used.

## Resulting Context

This pattern has the following benefits:

- Provides a record of user actions

This pattern has the following drawbacks:

- The auditing code is intertwined with the business logic, which makes the business logic more complicated

## Related patterns

- Event Sourcing (../data/event-sourcing.html) is a reliable way to implement auditing

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