1. *Audit Logging - Audit logging (auditing) records all user activities in the database. An audit log comprises an event that occurs because of a user activity, the user’s identity, the action taken by them, the time at which they took action, and the entity affected by the event.*

*Audit logs are different from the general system logs, while regular system logs are recorded to help developers troubleshoot any errors, audit logs are maintained to keep a sequential record of user activity within the organization.*

*There are a few ways you can audit microservices-*

* *Adding audit logging code to business logic: Each service method creates an audit log entry to save it in the database.*
* *Aspect-oriented programming (AOP): Define advice that intercepts every service call and creates an audit log using an AOP framework.*
* *Utilize event sourcing: Capture every change made to the application state in an event object so that it’s easier to roll back to the previous state in case of failure.*

*Audit logs equip IT teams with valuable information about admin activities, data access and modifications, log-in failures or user denials, and system-wide changes.*

*Getting to the thick of things and finding the fundamental reason behind an issue is a core feature of observability, and audit logs significantly help to achieve this.*