

Logging Best Practices



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Overview



General best practices

Logging messages

Logging and security



Logging General Best Practices



**Naming
conventions**



**Parseable
format**



**Other
purposes**



**Rethrow or log
exception**



Demo

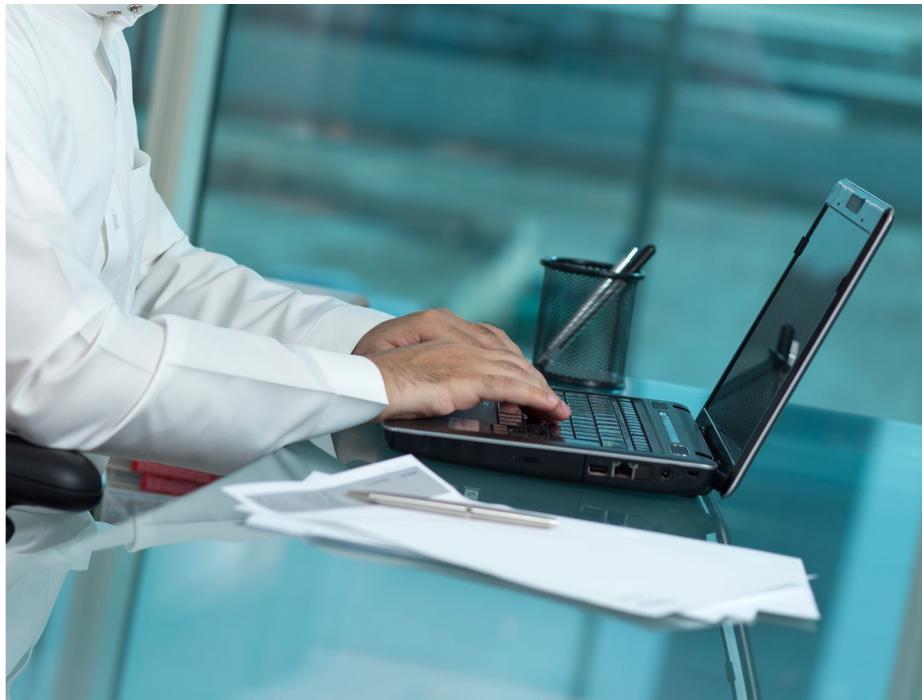


- **Logging**

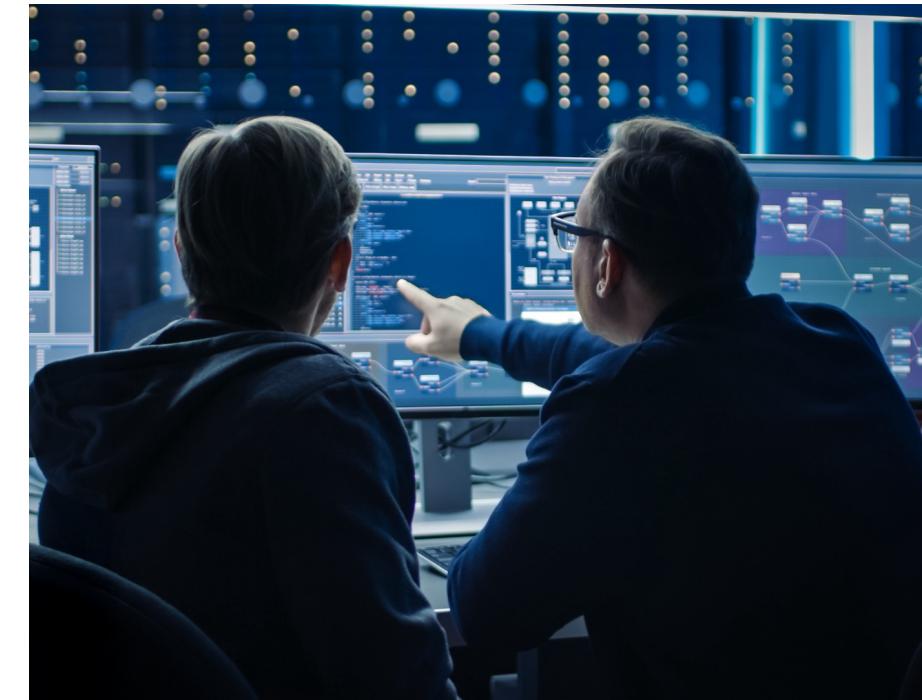
- **Naming conventions for loggers**
- **Exceptions should be either logged or rethrown but not both**



Best Practices for Logging Messages



Right amount of information



Enough information for errors and exceptions



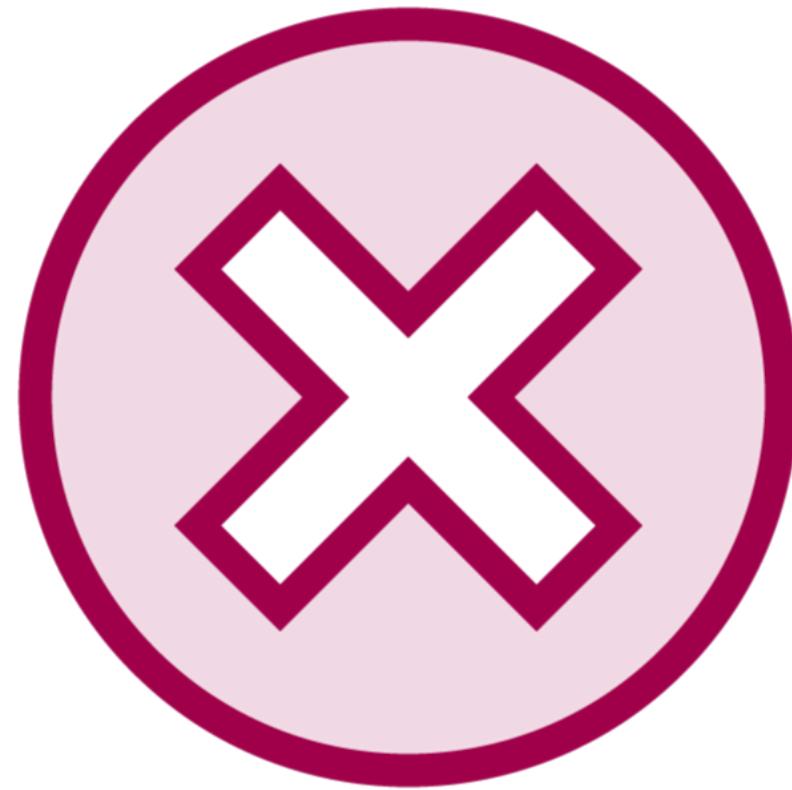
Right log level



Who
When
Where
What
Result



Precise Logging



Too little information
User logged in



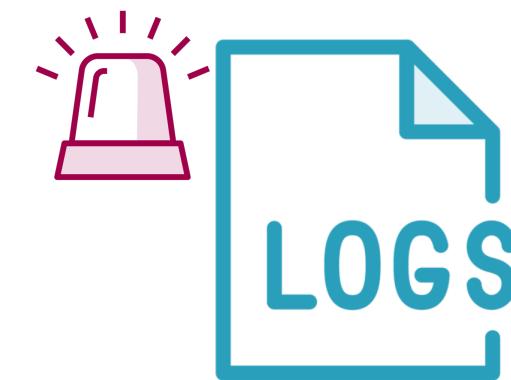
**Who, what,
where, when, result**
**John123 with ID 12 logged in
successfully to Carved Rock
Fitness on April 8, 2022**



Right Log Level



X



X



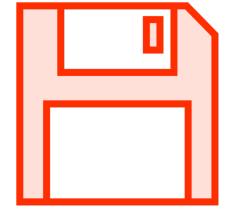
Best Practices for Logging and Security



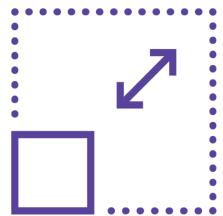
No sensitive information in the log output



Avoid code injection



Safe location for the log file



Maximum size of the log file



Back up logs



Demo



- **Security principles**
 - **No sensitive information in output**
 - **Avoid code injection**
 - **Maximum log size**



Summary



General best practices

Logging messages

Logging and security



Up Next:
External Log Libraries

