

The right use of AI in the SDLC: infrastructure & middleware

Successful configuration of Red Hat environments with Apache Tomcat in 2 hours

A team specialized in infrastructure, middleware, and cybersecurity managed to complete in 2 hours a task they had been unable to resolve in over 5 hours, by changing their AI usage paradigm.

Industry: Technology / Infrastructure

*Image for illustrative purposes only

Summary

The cybersecurity area detected that the servers of the Replica Monitoring Dashboard (DMR) system were on red alert: the Apache Tomcat version was obsolete and the security certificates had expired. Three specialists worked for more than 5 hours without being able to complete the configuration. By adopting an approach where AI acted as an active "coworker" in decision-making, they successfully configured both the contingency and production environments in just 2 hours.

Main challenges

- Unsupported/obsolete Apache Tomcat version requiring urgent update.
- Expired security certificates on web pages.
- Complete application server reconfiguration.
- 3 specialists with AI access made no progress after 5+ hours of continuous work.
- Need to enable contingency and production environments simultaneously.

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Approach

The team abandoned the use of AI as an isolated consultation tool and adopted a collaborative model where AI actively participated in every decision:

Collaborative analysis with AI to diagnose configuration issues.	Configuration guided by real-time AI suggestions.
Continuous validation of each step in the process.	Automatic documentation of the executed process.

Results

- Contingency and production environments successfully enabled.
- Time reduced from 5+ hours to 2 hours (60% reduction).
- Configuration completed successfully where it had previously failed.

Technologies used

Red Hat

Apache Tomcat

AI Tools (as coworker)



Conclusion

Neither individual expertise nor simple access to AI tools guarantees results. The differentiator lies in how AI is integrated into the way you work. Treating it as an active collaborator — not as a sophisticated search engine — was what unlocked the solution in a fraction of the time.

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