

# CERTIFICATE OF COMPLETION

This is to certify that

**Tomasz Nowakowski**

has successfully completed

## PentesterLab's Serialize Badge

Obtaining this badge demonstrates an advanced understanding of serialization vulnerabilities and their exploitation in multiple languages (Java, PHP, Python)



**PentesterLab**

**Louis Nyffenegger**  
Founder of PentesterLab

PTLS0073