

## DevOps - Continuous Integration and Deployment (DOCID)

Individual CA1 (30% of Final Grade)

Release Date: Thursday 25/09/2025

Submission Date: Sunday 19/10/2025 (Deadline 18:00)

Lecturer: Dariusz Terefenko

### Task:

Write an original, 2,000–3,000-word technical report on a DevOps topic of your choice. Submit the report as a PDF. All sources must be cited using the Harvard referencing style (in-text and reference list).

What should your report include:

- Use the following structure (you may add sub-sections as needed):
- Introduction & significance — Define the topic and explain why it matters in DevOps.
- Current practices, tools & methodologies — Analyze how the topic is approached today (frameworks, workflows, toolchains).
- Challenges & limitations — Critically evaluate pain points, trade-offs, and constraints in the state of the art.
- Emerging trends & future directions — Identify credible developments, standards, or research shaping what's next.
- Literature review — Synthesize relevant academic and industry sources; compare viewpoints and evidence.
- Conclusion — Summarize key insights and (where appropriate) provide justified recommendations.

Your writing must be in your own words and demonstrate critical analysis, not just description.

### Deliverables:

- Report: PDF, 2,000–3,000 words. Put the word count on the title page. Use Harvard referencing.
- Referencing guide: <https://tudublin.libguides.com/media/referencing>.
- Slides: A concise PowerPoint deck (6–10 slides) that distils the report's key points. Slides won't be presented in class (time constraints) but **are assessed and worth 10% of the overall mark**.
- Appendix (optional): May include supplementary material (figures, configs, code snippets). Does not count toward the word limit; use sparingly.
- Submission: Upload to Brightspace.
- Late policy: 10% deduction per day late.

<b>Marking Scheme</b>	
	<b>Report component (90%)</b>
Introduction & significance (DevOps context).	8%
Literature review (breadth, relevance, quality).	15%
Analysis of current practices/tools/methodologies.	20%
Challenges & limitations.	12%
Emerging trends & future directions.	12%
Critical evaluation & originality.	13%
Structure & coherence (academic writing).	5%
Harvard referencing accuracy & consistency.	3%
Formatting & compliance (PDF, word count on title page, originality/own words).	2%
	<b>Slides component (10%)</b>
Presentation slides (6–10, clarity, alignment with report, visual effectiveness).	10%
	Penalties
Late submission.	–10% per day