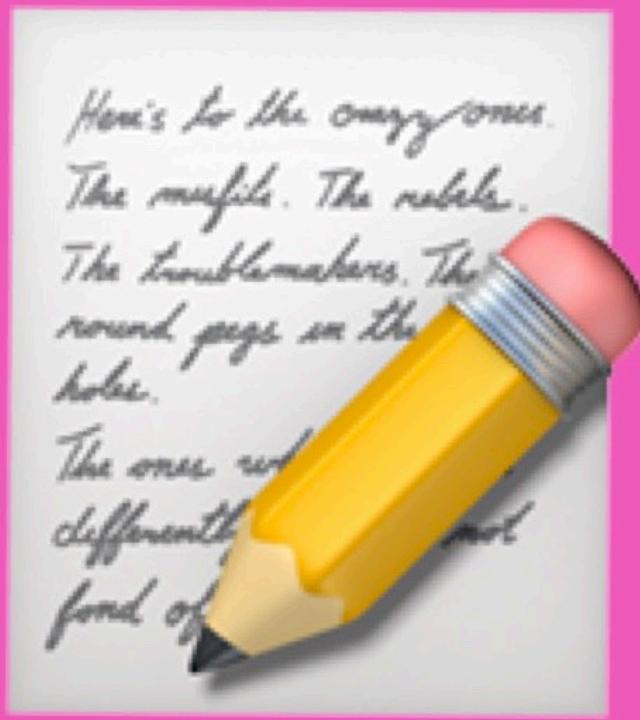
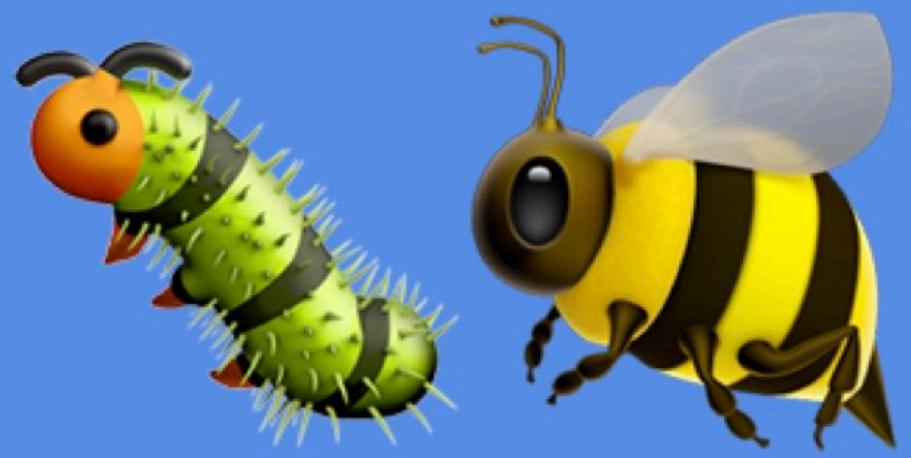


WIKTORIA DALACH (SHE/HER)

@WDALACH

SECURITY DOESN'T HAVE TO BE A NIGHTMARE (CLOUD EDITION)

Conf42: Cloud Native 2023





WIKTORIA DALACH

- Born in Kraków, Poland, based in Berlin, Germany
- Over a decade in tech
- Mostly backend
-   



WIKTORIADALACH.COM/SECURITY



PAY ATTENTION TO ACCESS CONTROL.



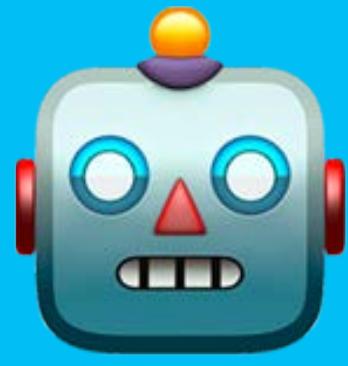
SECURE APIs



MISCONFIGURATION HURTS



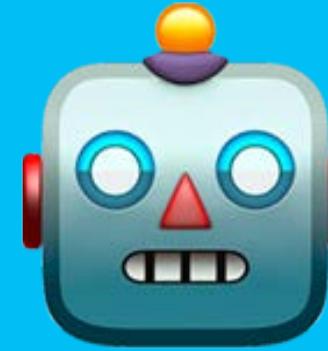
LET THE MACHINES WORK FOR YOU



DAST - DYNAMIC APPLICATION SECURITY TESTING



SAST - STATIC APPLICATION SECURITY TESTING





ENGINEERING VS. NICE-TO-HAVE



Hope St



THERE IS AN INFINITE AMOUNT OF THREATS BUT...

**...ALL OF THEM CAN BE ASSIGNED TO 1 OF 3
CATEGORIES**

CONFIDENTIALITY, INTEGRITY, AVAILABILITY

THE CIA TRIAD



CONFIDENTIALITY

WE WANT SECRETS TO BE SECRET

INTEGRITY

WE GET WHAT WE EXPECT

AVAILABILITY

WE CAN ALWAYS ACCESS THE INFORMATION

HOW IS IT HELPFUL?

THE QUESTION

HOW CAN THE CIA OF THIS PROJECT BE BROKEN?

CONFIDENTIALITY:

- WHO CAN SEE THIS RESOURCE?**
- HOW DO WE STORE CREDENTIALS?**
- DO WE LOG SENSITIVE DATA?**

INTEGRITY:

- WHO CAN CREATE, UPDATE AND REMOVE A RESOURCE?**
- IS THERE A WAY TO SEE A MALICIOUS ACTOR DELETING ALL RESOURCES?**
- WHAT HAPPENS WHEN MALICIOUS DATA IS SENT VIA A FORM?**

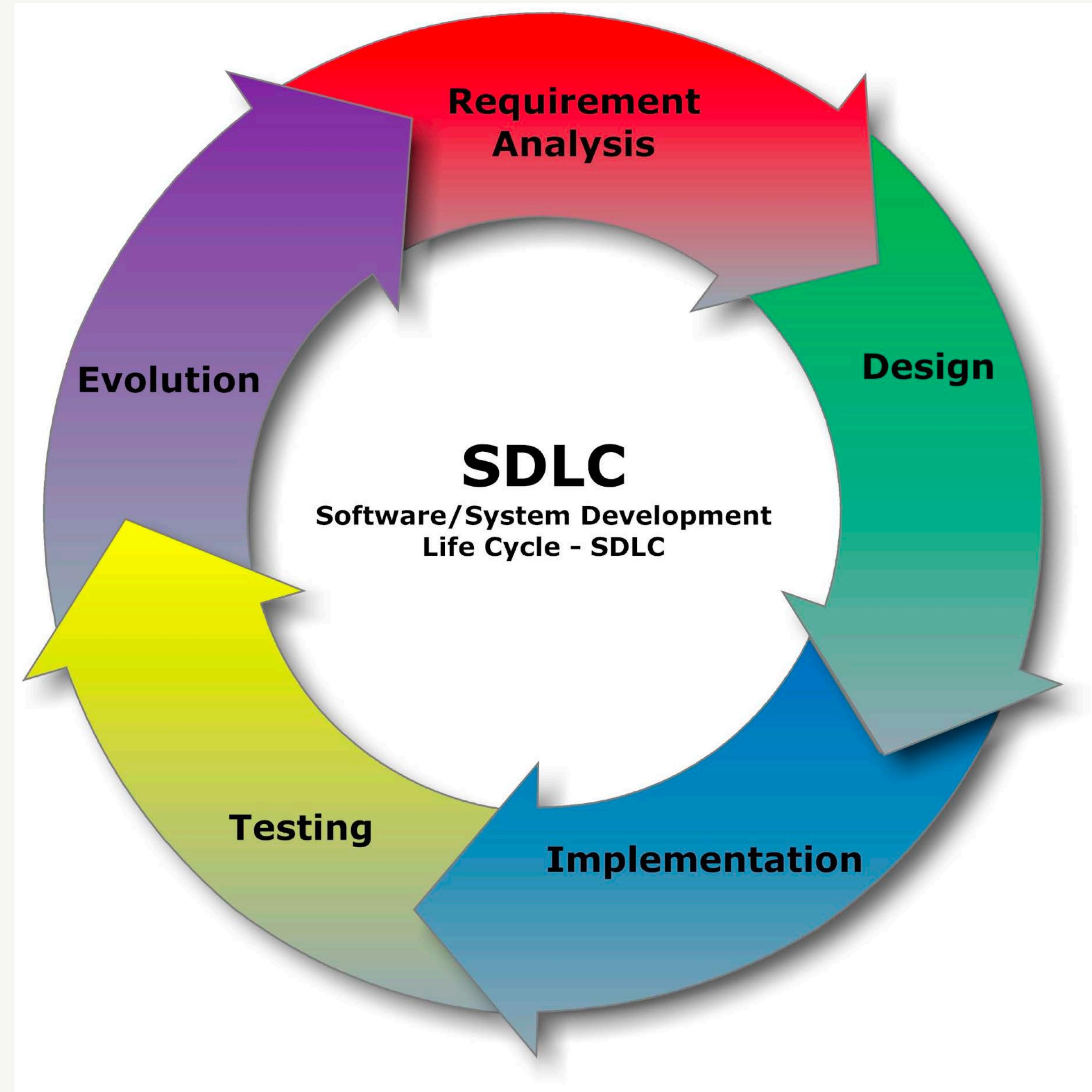
AVAILABILITY:

- IS THIS ENDPOINT RATE-LIMITED?
- WHAT HAPPENS WHEN EXTERNAL PRODUCT IS DOWN?
- HOW MUCH TIME DOES A DATABASE MIGRATION TAKE?

WHEN SHOULD YOU DO THIS?



SHIFT SECURITY LEFT

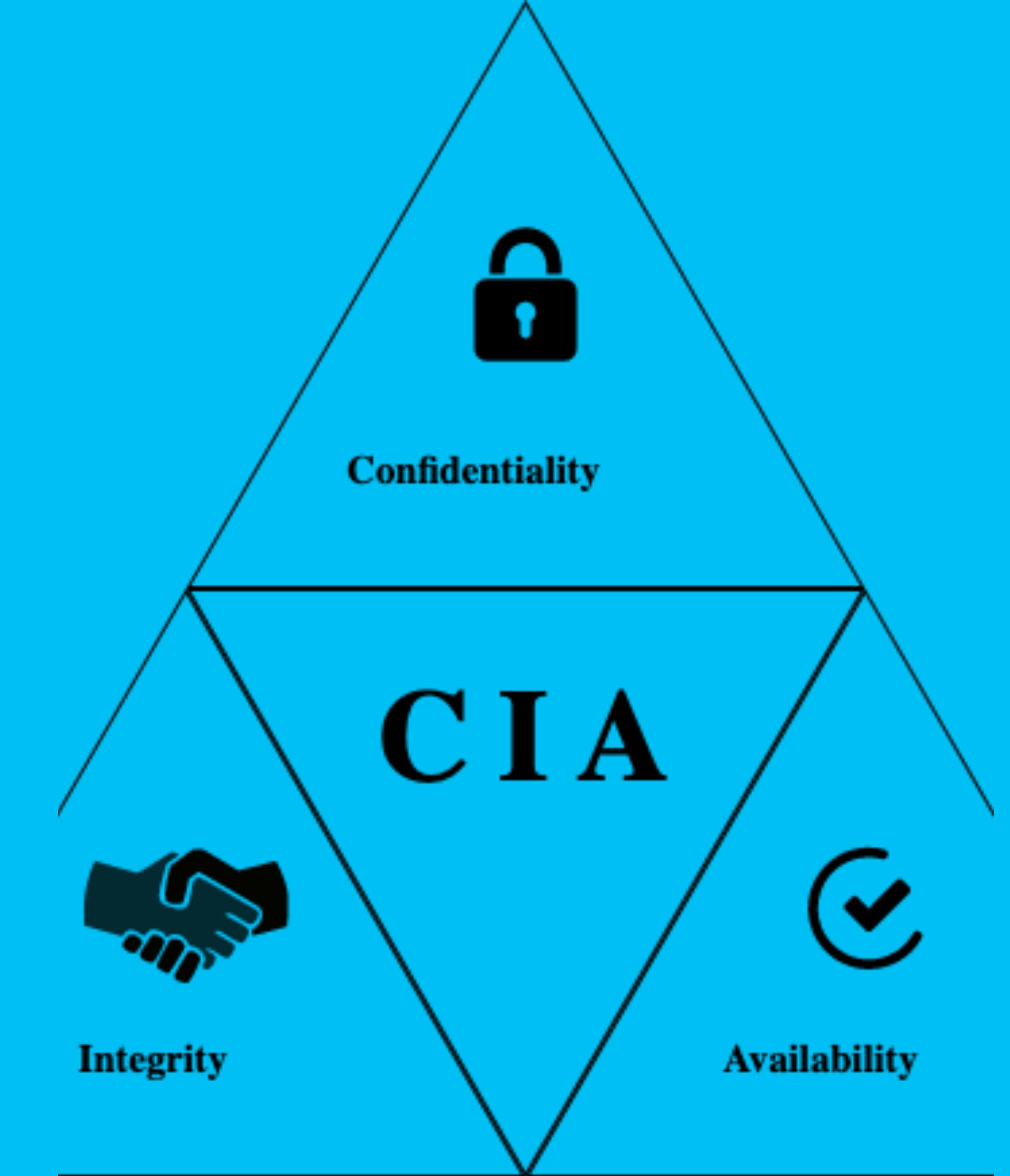


ANALYSE → DESIGN → DEVELOP → TEST → MAINTAIN

INJECT IT!

HOW TO IMPLEMENT THE CIA TRIAD?

- Present it to your peers,
- Discuss it with your team,
- Make it part of your process,
- Add it to doc templates:
 - Solution Briefs,
 - Enhancement Proposals,
 - Request for Comments.



MOVE FAST AND BREAK THINGS
IS OVER