



## Architectural Thinking for Intelligent Systems, WS 2019

### Assignment 8

#### Task Description for Lecture A9: Principles and Tactics

We apply principles and tactics to further refine the architecture of our system. We choose the two most important architectural principles, which will guide architectural decision making. We also decide for specific tactics that help us to achieve the desired system qualities.

- 1) Which 2 architectural principles are the most important ones when developing the system architecture?
- 2) Why did you decide for these principles? How do the two selected principles help in achieving the desired system qualities?
- 3) Draw a specific instantiation of the diagram of slide 19 of deck A9 to show how other principles can support those two principles, which you selected. Annotate the relationship arrows in the diagram with specific ideas/solutions that you will apply when implementing the principles in the architecture.
- 4) Select two tactics to implement one or several of the quality attributes. How does the tactic support the quality attribute? Compare the selected tactic to at least one other available tactic and explain why you preferred one tactic over the other.
- 5) Cybersecurity is a very important quality attribute of every software. What tactic(s) do you use to protect your system and why?

#### Submission

Instructions can be found in slide deck A1-BasicConcepts and on the course website.