

## OLA 2 Distributed Architecture – Modern Enterprise Architecture

Obligatorisk læringsaktivitet	Beskrivelse	Study Points
Distributed Architecture	Aflevering	30

Date Out 5 September 2025

Date Due 16 September 2024

This OLA gives you the opportunity to prepare resources to help with the exam project that relate to the Enterprise and Solution architecture elements of systems integration. It also gives you the chance to research tools and technologies related to building scalable service based enterprise applications.

**All the videos are in the Moodle Book about Enterprise Architecture**

<https://cphbusiness.mrooms.net/mod/folder/view.php?id=809369>

You should provide answers in any format – for example a written set of answers or a video going through each question or as a presentation.

**Q1** – What are the main differences between Enterprise and Solution Architecture. Describe the different roles that these play in designing large scale Systems? You can use resources like the video Enterprise Architecture vs Solution Architecture to help you answer.

**Q2** – In his video called Practical Architecture what does Stefan Tilkov say about the role of teams in modern architecture. He refers to a book Team Topologies – what “team topologies” does the book describe? Do you agree from your own experience that the team is a core part of a successful project?

**Q3** - Also in this video Stefan Tilkov explains why some things are best done centrally (for example at 23 min 30 seconds). Why do you think he is saying this? What does he claim are the benefits?.

**Q4** - In the video Architecting for Outcomes Simon Rohrer describes old fashioned and modern enterprise architecture. He talks about the A B C D E of modern architecture to compare modern and legacy ways of working. Do you find his arguments persuasive and if so why?

**Q5** - In the same video he explains the concept of the “Continuous Conversation”. In what ways does he say it benefits Saxo Bank? How does he connect the Continuous Conversation to the Devops Infinity Loop.

**Q6** - In the course we will focus on building integrated Enterprise scale applications using messaging and there are a number of core Integration Patterns for messaging. Using the Powerpoint Presentation for this week called Enterprise Architecture and Integration patterns describe 5 integration patterns for messaging and provide a use case for them. You can add more depth to your answer by coding the examples (you may have done some of this for OLA1). You should include Pipes and Filters and the Request Reply patterns as part of your answer.

**Q7** - In Gregor Hohpe’s talk Enterprise Integration Patterns 2 he describes the idea of conversations in a messaging architecture (from 18 minutes). He explains how a ‘messaging’ and ‘conversation’ architecture are different. What differences are there and what challenges does he describe for conversation based solutions (for example what is the difference between pub-sub and subscribe-notify).

**Q8** - Also in Gregor Hohpe’s video he explains the history and role of the idea of Patterns and Pattern Languages. How would you summarise what he explains – what do you see as the core requirements for patterns to be useful (see about 45 minutes in).

**Q9** – In Simon Rohrer’s article on modern enterprise architecture (<https://modernenterprisearchitecture.substack.com/p/modern-enterprise-architecture-a> also on Moodle in the folder for slides for this week) he goes in to more detail about the ABCDE of modern EA he discusses the ‘strangler’ pattern for moving away from legacy systems – why is this seen as a complex problem and what does the strangler pattern do to help?

**Q10** – In Jesper Lowgren’s video Solution vs Enterprise Architecture Tutorial he describes three core diagrams that can be used to describe an architecture. What are they and what role do they play? Include examples.

Although the questions mostly refer to the videos you should also look at the slides on Enterprise Architecture and some of the links I have provided for answering these questions. You should provide answers in any format – for example a written set of answers or a video going through each question or as a presentation