

# FIT3142 Tutorial #7 The Design of Distributed Systems

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#### 1 Tutorial Format

Preparation is required for this tutorial. Do not plan to complete the tutorial preparation during the tutorial.

Students should produce written answers to the tutorial questions prior to starting the tutorial.

The answers will be reviewed in a question and answer format during the tutorial. Each student will explain their answer.

Students will need to submit their answers before each tutorial via Moodle [Turnitin].

All questions are based on lecture slides, and lecture slides are in effect the "answer sheets" for these tutorials.

Worked answers will not be posted after tutorials as the answers are already in the lecture slides.

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## 2 Tutorial Questions

## 2.1 Question 1 (25%)

Explain the difference between the two most common scenarios in the development (design) of a *Distributed Application*. Which is better?

## 2.2 Question 2 (25%)

Explain Ferreira's seven qualification failure scenarios for a *Distributed Application*. What do all have in common?

#### 2.3 Question 3 (25%)

Explain the relationship between *messaging* and *scalability* in a *Distributed Application*. What are other causes of *scalability* problems?

## 2.4 Question 4 (25%)

Explain the differences between *compressing* and *compacting* messages. Which would you employ where?