Deployment View

Content

The deployment view describes:

1. the technical infrastructure used to execute your system, with infrastructure elements like geographical locations, environments, computers, processors, channels and net topologies as well as other infrastructure elements and

2. the mapping of (software) building blocks to that infrastructure elements.

Often systems are executed in different environments, e.g. development environment, test environment, production environment. In such cases you should document all relevant environments.

Especially document the deployment view when your software is executed as distributed system with more then one computer, processor, server or container or when you design and construct your own hardware processors and chips.

From a software perspective it is sufficient to capture those elements of the infrastructure that are needed to show the deployment of your building blocks. Hardware architects can go beyond that and describe the infrastructure to any level of detail they need to capture.

Motivation

Software does not run without hardware. This underlying infrastructure can and will influence your system and/or some cross-cutting concepts. Therefore, you need to know the infrastructure.

Form

Maybe the highest level deployment diagram is already contained in section 3.2. as technical context with your own infrastructure as ONE black box. In this section you will zoom into this black box using additional deployment diagrams:

- UML offers deployment diagrams to express that view. Use it, probably with nested diagrams, when your infrastructure is more complex.
- When your (hardware) stakeholders prefer other kinds of diagrams rather than the deployment diagram, let them use any kind that is able to show nodes and channels of the infrastructure.

Infrastructure Level 1

\<Overview Diagram>

Motivation

\<explanation in text form>

Quality and/or Performance Features

\<explanation in text form>

Mapping of Building Blocks to Infrastructure

\<description of the mapping>

Infrastructure Level 2

\<Infrastructure Element 1>

\<diagram + explanation>

\<Infrastructure Element 2>

\<diagram + explanation>

...

\<Infrastructure Element n>

\<diagram + explanation>