Iteration 3: Addressing Quality Attribute Scenario Driver (QA-4)

In this section, the results of the activities that are performed in each of the steps of ADD in the third iteration of the design process are presented. This iteration is used to build off of the fundamental decisions made in iteration 1 and 2, which leads to some of the more important quality attribute scenarios.

Step 2: Establish Iteration Goal By Selecting Drivers

For this iteration, the architect focuses on the QA-4 quality attribute scenario: The ability to perform all tasks without

Step 3: Choose One or More Elements of the System to Refine

For this availability scenario, the elements that will be refined are the physical nodes that were identified during the first iteration:

Step 4: Choose One or More Design Concepts That Satisfy the Selected Drivers

The design concepts used in this iteration are the following:

Design Decisions and Location	Rationale and Assumptions

Step 5: Instantiate Architectural Elements, Allocate Responsibilities, and Define Interfaces

The instantiation design decisions are summarized in the following table:

Design Decisions and Location	Rationale

Step 5: Sketch Views and Record Design Decisions

Figure 4.10 shows a refined deployment diagram that includes the introduction of redundancy in the system.