**Step 2: Establish Iteration Goals by Selecting Drivers**

For this iteration we will be focusing on QA-1 and QA-2. More specifically we will be looking at R32 (the system shall have a downtime at most 4 hours/ month).

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

For the server scenario the systems that will be refined are the physical system nodes. More specifically, the server side of the environment.

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

|  |  |
| --- | --- |
| Design Decision and Location | Rationale |
| Introducing a replicating component for the important elements of the server. | * Down time will need to be mitigated through multiple servers. * Active replication will allow the maintenance of multiple servers   Alternative: a hard alternative to find due to the instability of a single server |
| Introducing an element for the server maintenance. A command queue for higher priority. | * Servers must be maintained be real people. * Commands by maintainers must take priority * Directly correlated to QA-1 and QA-2   Alternative: A message queue could be implemented but it would not conform to QA-2 |