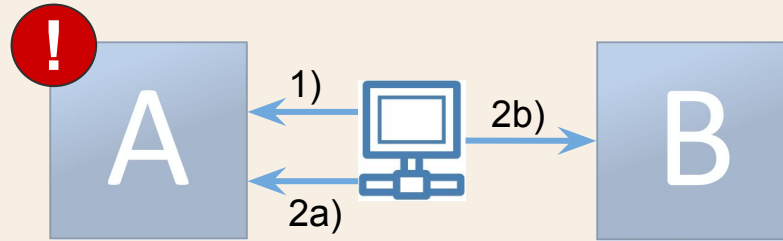# Extended Task Resubmission

Michael Lazarus     1206994
James Salazar       1269132
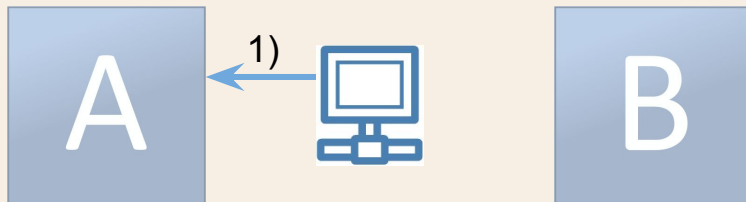Mateusz Gren        1025504

# Baseline

1. Task Resubmission

A job may fail now whenever a failed task is detected, in this case at runtime the task is resubmitted either to the same or to a different resource for execution.



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# Extension for Task Resubmission

After a task failed on the main resource, it is resubmitted to another node. In the meantime, the source node is restarted to exclude possible failures due to software and caching.

1. **Task is send to A**

# Extension for Task Resubmission

After a task failed on the main resource, it is resubmitted to another node. In the meantime, the source node is restarted to exclude possible failures due to software and caching.

1. Task is send to A
2. **Error on A**



2)

A

B

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# Extension for Task Resubmission

After a task failed on the main resource, it is resubmitted to another node. In the meantime, the source node is restarted to exclude possible failures due to software and caching.
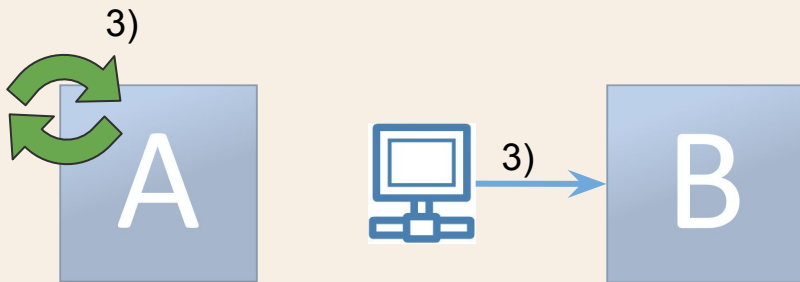
1. Task is send to A
2. Failure on A
3. **Resubmit to B**
   **Restart A**

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# Extension for Task Resubmission

After a task failed on the main resource, it is resubmitted to another node. In the meantime, the source node is restarted to exclude possible failures due to software and caching.
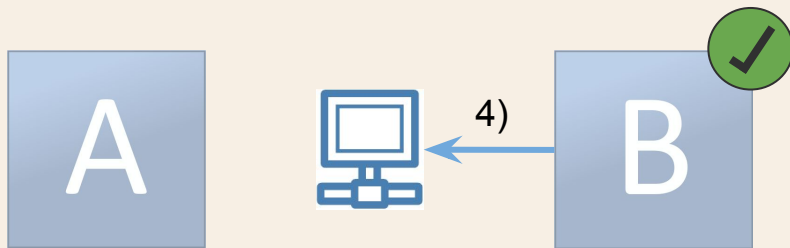
1. Task is send to A
2. Failure on A
3. Resubmit to B
   Restart A
4. **B completes task**
   →**Notify controller**



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# Extension for Task Resubmission

After a task failed on the main resource, it is resubmitted to another node. In the meantime, the source node is restarted to exclude possible failures due to software and caching.
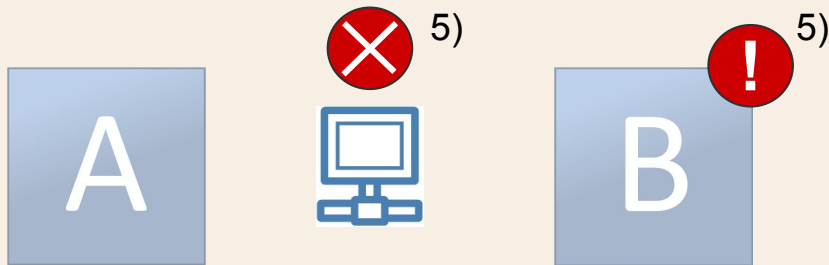
1. Task is send to A
2. Failure on A
3. Resubmit to B
   Restart A
4. B completes task
   → Notify controller
5. **B fails**
   → **Task cannot be completed**



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# Thank You!

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