

CHAPTER III

RESEARCH METHODOLOGY

3.1. Research Methodology

This research is divided into 6 steps, there are:

1. Finding References

Before start the project, necessary a strong of theoretical foundation for building the projects. Start with collect references from journals and books to determine the method to be applied to this project. Study and compare the advantages and disadvantages of methods one by one. Learn how the project will be applied working.

2. Design

At this step, doing design for server cluster architecture. The design give depiction of how this project would work. Determine scope on the project. Determine the methods will be applied to the project and explain how the method resolve the problems. Description units that working on the project.

3. Implementation

After make the design, the next step is the implementation of the design. Firstly from installation software on units who contained in server cluster architecture. Then configure the software on all units according to the method contained in design.

4. Testing

The design has to test to ensure that every methods and units works well. Test all the server cluster by experiment with various simulations and try various of possibilities. If there are errors in server cluster architecture, back to second step and improvements to the design. Then, comparing and measuring design for the server cluster architecture with commonly methods (conventional methods) and others methods.

5. Monitoring

Monitor the all units which working on server cluster architecture. First, observation logs from every units server. Then, parsing log into the web application as an observation evaluation if there is a problem on all server units.

