**Draft Data Collection Form**

*N. Wilde, Oct. 1, 2015*

**General focus and terminology**. We are conducting a case study that involves:

* A *tool chain* (e.g. Cloud Formation plus Bash shell scripts plus human steps)
* A *use case* (The use case says what we want to do, e.g. construct and smoke test a Golden AMI)
* Designing, and writing a *procedure* (collection of files) that is read by the tools in the chain to build a *configuration* of objects in the AWS cloud that meets the goals of the use case.
* Stepping through that procedure. I presume that some steps are *manual*, with a human doing most of the work, and some are *automated*, so the human only needs to give a command or press a button. I also presume that the steps can be categorized as:

1. *Preparation* - things that have to be done before starting. Probably most of these are manual
2. *Building* - pulling stuff from repositories, compiling, creating AWS instances, that make up the configuration. One hopes that most of these steps are automated but some may be manual
3. *Testing* - checking that the configuration is fit for use. Could be manual or automatic.
4. *Clean up* - deleting intermediate products, logging the result, etc. Could be manual or automatic.

* Evaluating the tool chain and identifying opportunities for improvement

We fill in one copy of this form for each such case study. Create a directory in Git Hub for each case study with this form and all the files making up the recipe.

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| --- | --- |
| **Tool Chain** | {tool names (and versions if relevant} |
| **Use Case** | {just the name - assume we have a separate document for each use case} |
| **Performed by** | {names of the students / faculty doing this} |
| **Date:** | {when was this done? could be over several days} |
| **Design of the procedure** | {What were the design issues and decisions taken? What does the design look like, e.g. what files make up the recipe and what is the purpose of each? How about a UMLish sequence diagram showing the steps and the tools?} |
| **Steps:** |  |
| **- Step 1** | {Describe the step. What category is it? Is it manual or automatic or some mixture?} |
| **- Step 2** |  |
| **etc.** |  |
| **Discussion** | {issues, problems, etc. I hope we can come up with some criteria to use in the discussions} |
| **References** | {url's etc. of any documents you used} |
| **Appendix** | {Take detailed notes here in any old format, listing everything you did in order, things that did not work, etc. Screen shots may be helpful. This will just help us reconstruct and analyze the case study} |