CLAW Install Sprints

Overview

The Islandora Foundation is seeking community support to create a modular installation process that meets the following criteria:
- Capable of supporting multiple operating systems
- Supports Vagrant, bare metal, and eventually Docker containers
- Can be used for both all-in-one installs as well as more complex setups involving multiple servers
- Can be used to maintain/update existing installations as the CLAW codebase evolves
- Is well documented

Ansible has been identified as the dev/ops tool that fits best with these goals, and over the course of several sprints the existing claw_vagrant codebase will be adapted into an Ansible based solution. Each sprint will happen in two phases:
1. Planning phase: a sequence of meetings to determine final scope of work and create Github issues for the sprint. The length of this phase is variable, and can last for as long as necessary until scope is defined and issues are created.
2. Development phase: The actual implementation and testing of work to resolve issues created in the planning phase. The length of this phase is limited to two weeks.

Stakeholders

Stakeholders are individuals or organizations committed to a single sprint. Being a stakeholder gives you influence over the direction of the work, but comes at the price of a minimum time commitment for the planning and development phases of a sprint. The minimum time commitments required for each phase are:
- Planning phase: 1-2 hours per week for meetings.
- Development phase: 3 days (24 employee-hours) dedicated to development and testing during the two week period.

Although developer time will be required to complete a sprint, it is not a requirement to be a stakeholder. Those who can only provide testing time during the development phase are still encouraged to sign up.

Initial Installation Sprint

Currently, CLAW can be installed as a Vagrant environment. The claw_vagrant codebase is a series of BASH scripts targeting Ubuntu 16.04. It is an all-in-one build meant to be used by developers.

The goal of this first sprint is to convert this code into an Ansible [Playbook](#) which can be used to create a development environment using Vagrant or install onto bare metal to provide a single server installation. Jonathan Green has already started this process and has a work-in-progress attempt, [claw_ansible](#), which will be used as a starting point.

In the interest of limiting scope as much as possible, we'll continue to target Ubuntu 16.04 as claw_vagrant and claw_ansible do. However, we will structure the code in such a way as to allow for other operating systems to be added later. Also, although a Docker based install is far away on the horizon, considerations for this eventual goal will be taken into account.

We will also be documenting how to obtain and run the installer once it is functional.

Additional Sprints

The initial sprint will be a small (yet significant) step towards meeting our community goals, but further work will be required to accomplish them all. There will have to be follow up sprints for
- Distributed (e.g. more than one server) installs
- Additional operating systems (RHEL/CENTOS in particular)
- Maintenance/upgrade tools
- Docker container based installation

The order and timing of these sprints will be dictated by community interest and engagement.