oVirt

Add Ansible Roles for ovirt-utilities

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Mentor: Lukas Svaty

Personal Details:

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Project Abstract:

- **Title**: Adding ansible roles for ovirt-utilities.
- **Description:**
  - Writing new playbooks for roles with remote resources (Database, Data Warehouse).
  - Tests for remote resources deployment. Will be using multiple docker instances on travis for this purpose.
  - Deployment of Data Warehouse service in the remote machine (need running utilities on more than one machine).
  - Adding roles for different purposes
    - eg: role for renaming the ovirt engine etc.

- **Impact:**

    Adding these roles would help in

    - Easier testing
    - Automated Re-deployment
    - Issue reporting
    - Reduced errors while deploying
    - Streamlined development flow for users and devs alike

Timeline:

- Community Bonding [May 5 - 30, 2017]
    - Interacting with the developers and the community.
    - Read up the documentation of the internal workings.
    - Discuss with mentor(s) about the implementation details.
- Week 1 - Till Phase 1 evaluation [31 May - 26 June]
    - I would consider only non-remote resources as some basic utilities are still not automated to ansible roles.
    - For eg:
        - pki-enrollment utilities.
        - engine-rename etc.
- Week 6 - Till Phase 2 evaluation [27 June - 27 July]
    - I would consider starting with roles for remote resources, as these will require the investigation on testing in travis in multiple linked containers, and maybe do a bit of research on that if it's possible and what are limitations from Travis side (memory, disk space etc.)
- Week 10 - Till Final Week [28 July - 21 August]
    - Completing all the proposed work.
    - Write documentation of the things added.
    - Final testing phase.

I have planned my timeline accordingly, spreading out work to be done in these weeks over a larger time interval.

Motivation for GSoC

I like building things. Things which ease human effort in some way or the other. Back in my 2nd year at university, I have donned the role of a sysadmin at one of my University projects where we were building a general purpose search engine. It involved handling our own mainframe server. It was my first experience of maintaining and building something at a large scale.

The fact that oVirt is a BIG scale environment, suited for companies/organisations that are running more than few virtual machines at one server, it really gets me excited that my work will be having such a major impact! Plus by working on my proposed project, I will have gained significant experience by collaborating with such talented developers from around the world which would help me immensely in my personal/professional development.

Having said that, I specifically chose to work on the automation/Ops part of oVirt. I genuinely feel, that if something can be automated, it should be. I have already started learning the parts required to complete the project at hand and have found the knowledge gained by doing so directly applicable in my development lifecycle.

I hope to continue contributing to oVirt and other oVirt related projects even after GSoC.

About Me

I am Tasdik Rahman, a 4th year Bachelors of Technology senior at SRM University, Chennai (India) majoring in Information Technology. Have interned at a fast growing SaaS startup back in India where I helped build [vwo.com](vwo.com), the easiest A/B testing tool in the market.

Have built web apps using flask/Django and deployed them to heroku, cross platform rpg game using pygame, command line tools, web scrapers, built libraries and pushed them to pypi. Started off programming using python as my first language. Have a special place in my heart for it :)

A regular at the local tech conferences and meetups. Most recently, gave a talk titled ["Demystifying how imports work in python", ChennaiPy (India) October 2016](#).

My projects have been featured on [product hunt](#), in magazines like [import python](#) and the likes. With my past internships and projects, I have gained significant experience with writing code for open source software and collaborating with other developers for projects.

Relevant Projects to my proposal which I did to gain experience

- https://github.com/prodicus/ansible-playbooks
- https://github.com/prodicus/opencv3-ansible-vagrant-playbook