2018 CentOS Dojo / RDO day at CERN

Report of Contributions

https://indico.cern.ch/e/centosdojo2018

Repositories, Pipelines, Packages ···

Contribution ID: 1

Type: not specified

Repositories, Pipelines, Packages & Promotions

Friday 19 October 2018 14:30 (30 minutes)

Repository management is hard.

Once have more than one environment to take care of, you don't want to risk deploying software in that environment that hasn't been approved for that environment yet. So you need multiple repositories, one per environment.

But you also need more than just the upstream CentOS, you might need EPEL, or a part of it, you obviously have custom build software you want to deploy. It quickly escalates to an untasty bowl of spaghetti.

We sufferred for a long time ... we had a vision on how to solve this .. And when it scaled we automated it ...

A tale of Pulp and Jenkins, happily working together to provide a structured standardised repository management ecosystem.

Oh .. and even in a Containerized world, you still need thos repositories to build your images from.

Author: Mr BUYTAERT, Kris (Inuits.eu)

Presenter: Mr BUYTAERT, Kris (Inuits.eu)

Ansible-Pull for client configurat ...

Contribution ID: 2

Type: not specified

Ansible-Pull for client configuration management

Friday 19 October 2018 15:30 (30 minutes)

Configuration Management

As client services provider at a university, we face a heterogeneous but rather windows- heavy environment. It comes with the unique challenge to provide local support staff with tools to handle diverse Unix (macOS and Linux) client requirements.

We would like to present our approach to systems administration: How we use Ansible in pull mode for client configuration management and how we integrate it into our current Active Directory and Git infrastructure. The benefits: Infrastructure as code without additional backend components, Active Directory as a graphical frontend for our support staff and the freedom to modify and optimize our tool chain.

https://github.com/ANTS-Framework/ants

Scientific Software Build Pipeline

We developed a highly automated build pipeline to cope with hundreds of scientific applications and their dependencies. Our pipeline follows the develop/test/production approach. It is based on easybuild and integrated into our Jira Kanban board for reporting.

Authors: Mr ASCHWANDEN, Balz (Universität Basel); Mr HUSAR, Michael (Universität Basel); Mr WELKER, Jan (Universität Basel)

Presenters: Mr ASCHWANDEN, Balz (Universität Basel); Mr WELKER, Jan (Universität Basel)

Overhauling performance monito ...

Contribution ID: 3

Type: not specified

Overhauling performance monitoring - update on OpsTools SIG

Friday 19 October 2018 16:30 (30 minutes)

One year ago, I introduced the CentOS OpsTools SIG. we talked about the three pillars of Availability monitoring, performance monitoring and centralized logging.

In this talk, we're going to focus on performance monitoring and are going to propose a somewhat different approach, which also solve the mentioned issue of HA setup.

Author: RUNGE, Matthias

Presenter: RUNGE, Matthias

Tangling With Tools: Automatic ····

Contribution ID: 4

Type: not specified

Tangling With Tools: Automatically Managing Dependencies Within Cloud SIG

Friday 19 October 2018 11:10 (30 minutes)

Release early, release often is one of the common phrases heard within the open source world and OpenStack is no exception. With a six month release cycle and a dynamic environment that requires new external libraries or updated versions of existing ones on a daily basis.

The RDO Community must sustain this pace to provide updated versions of these dependencies and to maintain a consistent set of packages as close as possible to the versions used to validate OpenStack services upstream.

To that end, we have developed a set of automation tools built on continuous integration and delivery principles to detect changes to the OpenStack project's requirements, build them on CBS, and test them using the RDO deployment tools. In this presentation, we will introduce this set of tools, why we developed them, how we implemented them and how they help us stay up to date with our dependencies.

Authors: Mr PEÑA, Javier (Red Hat); Mr MORALEJO, Alfredo (Red Hat) Presenters: Mr PEÑA, Javier (Red Hat); Mr MORALEJO, Alfredo (Red Hat) 2018 CentOS Do $\ \cdots \ /$ Report of Contributions

Cloud SIG update

Contribution ID: 7

Type: not specified

Cloud SIG update

Friday 19 October 2018 10:40 (30 minutes)

What where the highlights of this year for the Cloud SIG? Let's also explore what's coming up for the next year and what's left to do.

Author: GUEMAR, Haikel

Presenter: GUEMAR, Haikel

CentOS Community Container P ...

Contribution ID: 8

Type: not specified

CentOS Community Container Pipeline for open source projects

Friday 19 October 2018 13:30 (30 minutes)

CentOS Community Container Pipeline helps open-source developers create containers, scan them, lint their Dockerfiles and push it to a public registry (https://registry.centos.org) by simply doing a git push to their git repo! It also does automatic rebuilds of container images and scans them on weekly basis.

Presenter: Mr SINGH, Karanbir (Red Hat)

CentOS, Fedora, RHEL: Solving t

Contribution ID: 10

Type: not specified

CentOS, Fedora, RHEL: Solving the Penrose Triangle

Friday 19 October 2018 16:00 (30 minutes)

Presenter: PERRIN, Jim (CentOS Project)

OpenHPC Introduction

Contribution ID: 12

Type: not specified

OpenHPC Introduction

Friday 19 October 2018 14:00 (30 minutes)

High performance computing (HPC) - the aggregation of computers into clusters to increase computing speed and power- relies heavily on the software that connects and manages the various nodes in the cluster. Linux is the dominant HPC operating system, and many HPC sites expand upon the operating system's capabilities with different scientific applications, libraries, and other tools.

To avoid duplication of the necessary steps to run an HPC site the OpenHPC project was created in response to these issues. OpenHPC is a collaborative, community-based effort under the auspices of the Linux Foundation to solve common tasks in HPC environments by providing documentation and building blocks that can be combined by HPC sites according to their needs.

This talk gives an introduction in OpenHPC and how it tries to help to set up HPC systems on top of CentOS.

Author: Dr REBER, Adrian (Red Hat)

Presenter: Dr REBER, Adrian (Red Hat)

Welcome and Announcements

Contribution ID: 14

Type: not specified

Welcome and Announcements

Friday 19 October 2018 09:00 (10 minutes)

Computing Challenges for LHC

Contribution ID: 15

Type: not specified

Computing Challenges for LHC

Friday 19 October 2018 09:10 (30 minutes)

Presenter: BIRD, Ian (CERN)

2018 CentOS Do $\ \cdots \ /$ Report of Contributions

Fedora Atomic Host at CERN

Contribution ID: 16

Type: not specified

Fedora Atomic Host at CERN

Friday 19 October 2018 09:40 (30 minutes)

Presenter: TRIGAZIS, Spyridon (CERN)