Rancher Labs Adds OS Optimized for Kubernetes

Rancher Labs has made available a beta release of a lightweight operating system on which it envisions IT organizations will deploy its previously announced lightweight instance of Kubernetes dubbed k3s.

Company CEO Sheng Liang says the main goal is to make it more convenient for IT organizations to use the same set of tools to deploy an instance of Kubernetes along with a k3OS operating system based on the open source Ubuntu kernel. Rancher Labs doesn't envision IT organizations replacing instances of Linux that have already been deployed in with K3OS, but in circumstances where there has been no operating system standard set, k3OS should provide a more frictionless deployment option, he says.

In fact, Liang notes the ability to deploy and update Kubernetes and the operating system it runs on from within the same user interface to access a common set of YAML files should be especially appealing to IT organizations that have embraced best DevOps processes to deliver ongoing rolling upgrades to their IT environments.

Manage your APIs deployed with Istio service mesh

And, as explained in "Distributed microservices architecture: Istio, managed API gateways and, enterprise integration?", a service mesh does not relieve the need for an API management solution. A service mesh manages services and the connections between them, whereas an API management solution manages APIs and their consumers. In this article, I'll describe how to manage APIs using the Red Hat Integration adapter for Istio.
Red Hat Integration offers an API management capability that let companies build an ecosystem of consumers around their APIs and then drive new revenue from them.

- **MySQL on OpenShift Container Storage performance and failover under heavy load** [4]

- **OpenStack Looks to Help Define the Future of Open Infrastructure** [5]

  The OpenStack Foundation is continuing to grow its open-source efforts, including confirming new top-level projects and expanding its Ironic bare metal program, as part of the kickoff for the Open Infrastructure Summit.

  The Kata Containers secure container effort and the Zuul Continuous Integration/Continuous Deployment (CI/CD) projects have now been confirmed as top-level projects at the OpenStack Foundation, joining the group's namesake OpenStack cloud. While not yet a top-level project, the Airship lifecycle management project is also celebrating a major milestone with its 1.0 release.

  Additionally, the OpenStack Foundation is promoting its Ironic bare metal program as a way for organizations to deploy cloud resources on physical hardware.

- **Indie Web Server 9.1.0: Better error handling** [6]

- **Most Used CLI Based Linux Network Management Tools** [7]

  If you are a system administrators or a network administrators then you must be aware of all the commands that we are going to mention in this post.

  Even if you don't know or you are newbie in system admin domain than this post is for you.Let's see some of the most used command line based tools for network management in Linux.

- **Docker Security Breach Affects Devops Pipelines** [8]

  Docker security took a hit last week -- right before its annual developer and customer event -- with the news that a database in its Docker Hub repository for container images had been
hacked.

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