

# OpenInfra User Group meeting



## Report of Contributions

Contribution ID: 1

Type: **not specified**

# Welcome to CERN

*Thursday 6 June 2024 14:00 (20 minutes)*

**Presenters:** Dr WIEBALCK, Arne (CERN); PORCARI, Enrica Maria (CERN)

**Session Classification:** Openstack User meeting

Contribution ID: 3

Type: **not specified**

# Open Infrastructure: From Monumental to Mundane and Back Again

*Thursday 6 June 2024 15:20 (20 minutes)*

Jay is Open Source Developer, G-Research Open Source Software

**Primary author:** FAULKNER, Jay (G-Research Open Source Software)

**Presenter:** FAULKNER, Jay (G-Research Open Source Software)

**Session Classification:** Openstack User meeting

Contribution ID: 4

Type: **not specified**

## How can I give virtual GPU resources to my endusers seamlessly?

*Thursday 6 June 2024 16:20 (20 minutes)*

While OpenStack Nova supports virtual GPU and GPU passthrough for a while now, we recently improved a few things and we provided support for the recent nVidia SR-IOV architectures. During this presentation, we'll cover the recent additions that were made and we'll show how to manage your GPU resources in order to provide them to end users, including an experimental feature that will provide GPU quotas to your users.

**Presenter:** BAUZA, Sylvain (Red Hat)

**Session Classification:** Openstack User meeting

Contribution ID: 5

Type: **not specified**

## Using Cluster API to provide managed Kubernetes on OpenStack

*Thursday 6 June 2024 16:00 (20 minutes)*

This talk provides an overview of how Cluster API changes the game for deploying and managing Kubernetes through Magnum and Azimuth.

**Presenter:** PRYOR, Matt (StackHPC)

**Session Classification:** Openstack User meeting

Contribution ID: 6

Type: **not specified**

## **Supercharging an existing secure HPC infrastructure with Openstack**

*Thursday 6 June 2024 14:40 (20 minutes)*

Leveraging OpenStack to pivot a secure HPC infrastructure into a flexible Trusted Research Environment where HPC resources run alongside Virtual Machines and K8s clusters.

**Presenter:** BELLUCO, Mattia (ETH Zurich)

**Session Classification:** Openstack User meeting

Contribution ID: 7

Type: **not specified**

## OpenStack at CERN

*Thursday 6 June 2024 14:20 (20 minutes)*

**Presenter:** CASTRO LEON, Jose (CERN)

**Session Classification:** Openstack User meeting

Contribution ID: 8

Type: **not specified**

## Proposing a Public Cloud infrastructure and using it to heat a residential neighborhood

*Thursday 6 June 2024 15:00 (20 minutes)*

In a first part we will detail some challenges we face on a daily basis in offering a public cloud infrastructure built on Openstack. Then in a second part, how we use this infrastructure to heat a residential area with our new datacenter.

**Primary authors:** JACQUET, Axel (Infomaniak); GOURLIN, Siméon (Infomaniak)

**Presenters:** JACQUET, Axel (Infomaniak); GOURLIN, Siméon (Infomaniak)

**Session Classification:** Openstack User meeting



Contribution ID: 9

Type: **not specified**

## Introduction to ovn-bgp-agent

*Thursday 6 June 2024 16:40 (20 minutes)*

As data centres grow to hyper-scale, the limitations of traditional Layer 2 networking architectures are becoming apparent on scalability and performance, and there is a growing interest for pure Layer 3 deployments.

To allow that feature on OpenStack, we have been working on a new OVN based agent that can expose workloads through BGP, which we will present in this talk.

**Presenter:** CAFARELLI, Bernard (Red Hat)

**Session Classification:** Openstack User meeting