

Cluster API Provider OpenStack Office Hours 2023

[Meeting link](#)

Project Repo: sigs.k8s.io/cluster-api-provider-openstack

Slack Channel: [#cluster-api-openstack](#)

Meeting Times: 14:00 UTC on alternate Wednesdays

Zoom: <https://zoom.us/j/91405526408?pwd=bVBxempwVDBzejJGQlhSOGlXZnRxUT09>

For edit access to this document, join the [sig cluster lifecycle mailing list](#).

Meeting Etiquette

- Use the [Raise hand](#) feature of zoom (click participants, then raise hand) to continue current topic by expanding on a point, disagreeing, responding, etc.
- Edit the agenda (this document) to add a new, unrelated topic.
- The moderator for each meeting should help keep us on track by encouraging participants to add new topics to the agenda as we go.

Instructions for facilitators

- Get the host key from one of the maintainers
- Wait a few minutes for people to arrive
- Record the meeting to your computer - do not choose cloud recording
- Introduce the meeting “Cluster API Provider OpenStack Office Hours of [date].” Notify participants that we are abiding by the CNCF Code of Conduct.
- Ask participants to use the “raise hands” feature, and keep the Participants window open (or docked against the zoom window).
- Share your screen with the agenda, so it’s available for the recording.
- After the meeting is over, upload the video to your own (non-corporate) YouTube and make public. Use <https://cluster-api.sigs.k8s.io/images/introduction.png> as the thumbnail. If you’re uncomfortable using your personal account, send the file over to Naadir Jeewa. Use the naming convention “SIG Cluster Lifecycle - Cluster API Provider OpenStack Office Hours - YYYYMMDD”. After uploading, contact SIG Cluster Lifecycle leads (@neolit123 and @fabrizio.pandini in Slack) to add to the SIG Cluster Lifecycle YouTube Playlist.
- Please also link the recording at the top of the agenda.
- For tips on facilitation, see https://aorta.coop/portfolio_page/anti-oppressive-facilitation/

Future Agenda Topics

Anything we didn't get to in a meeting, or which doesn't necessarily need to come up in the next meeting.

- (Lennart) Are the "Resolved" structs supposed to be exposed as part of the API? I got word from my downstream that the API from a go-lang point of view is confusing with these resources. For example FixedIP vs ResolvedFixedIP. Should we make them private?

Wednesday 13 Dec 2023 - 14:00 UTC

[Recording](#)

Attending

- Matthew Booth, Maysa Macedo - Red Hat
- Lennart Jern - Ericsson
- Hugo Blom - Elastx
- Mathieu Tortuyaux, Kai Luke, Thilo Fromm - Flatcar (Microsoft)

Agenda

- 10min-15min Mathieu + Thilo, Flatcar Linux: Use stock images for running CAPO
 - See <https://github.com/kubernetes-sigs/cluster-api-provider-openstack/pull/1776> - I can quickly explain the purpose/context of this PR:
 - We'll provide a brief presentation on the changes / benefits of using stock images + sysex
 - Demo of the PoC (not the final state):
<https://www.youtube.com/live/omppbFNxSDU?feature=share&t=210>
 - Slides are here:
<https://drive.google.com/file/d/1G2mMQztKd4iVuEkxJ31dR8iw3lSDnk0H/view?usp=sharing>
- Major feature WIP
 - [IPAM for floating IPs](#)
 - [Managed security groups](#)
 - [API loadbalancer controllers](#)
 - [Dual-stack support for BYO network](#)
- v1alpha8 and beyond
 - Shall we merge it?
 - Putting the Bastion FIP change back
 - ServerGroup becomes a filter
 - Similar minor things

- API LB changes could be backwards compatible

Wednesday 29 Nov 2023- 14:00 UTC

[Recording](#)

Attending

- Emilien Macchi Matthew Booth Pierre Prinetti Maysa De Macedo Souza : Red Hat
- Lennart Jern (Ericsson)
- Hugo Blom (Elastx)

Agenda

- Emilien: [Security Groups](#) & [Server Groups](#): new CRDs? new controllers?
 - Managed Security Groups should be handled in one single place (whether it's a new controller managing only the SG piece of the machines, or in an existing controller with a dedicated reconcile)
 - MachineController shouldn't take care of Security Groups
- Matt: IPAM for floating IPs
 - PR for api change:
<https://github.com/kubernetes-sigs/cluster-api-provider-openstack/pull/1762>
- PR for IPAM Provider:
<https://github.com/kubernetes-sigs/cluster-api-provider-openstack/pull/1763>
- Matt: API Loadbalancer: new controllers

Wednesday 15 Nov 2023 - 14:00 UTC

[Recording](#)

Attending

- Matthew Booth (Red Hat)
- Hugo Blom (Elastx)
- Victor Sollerhed (Pagero)

Agenda

- IPAM for Floating IPs
 - <https://github.com/kubernetes-sigs/cluster-api-provider-openstack/issues/1750>
 - Resolution:
 - Hugo to start writing IPAM provider and machine controller integration
 - IPAM will live in CAPO in-process, at least for now
- API downtime during upgrades
 - <https://github.com/kubernetes-sigs/cluster-api-provider-openstack/issues/1749>

- <https://github.com/kubernetes-sigs/cluster-api-provider-openstack/issues/1748>

Wednesday 18 Oct 2023 - 14:00 UTC

[Recording](#)

Attending

- Matthew Booth Emilien Macchi Pierre Prinetti (Red Hat)
- Lennart Jern (Ericsson)
- Hugo Blom (Elastx)

Agenda

- [mdbooth] IPAM for floating IPs:
<https://github.com/kubernetes-sigs/cluster-api-provider-openstack/pull/1725>
 - Issue mentioning this:
<https://github.com/kubernetes-sigs/cluster-api-provider-openstack/issues/1377>
- [mdbooth] Red Hat's CAPO roadmap
- [mdbooth] Periodics and CI
- Possible CI donation from Elastx
 - How much capacity do we use in practise
 - Work to balance across multiple providers

Wednesday 04 Oct 2023 - 14:00 UTC

[Recording](#)

Attending

- Lennart Jern - Ericsson
- Matthew Booth, Emilien Macchi, Pierre Prinetti, Maysa De Macedo Souza - Red Hat

Agenda

- Fill out the "SIG Cluster lifecycle projects - self assessment for 2023" survey. Ref:
<https://groups.google.com/g/kubernetes-sig-cluster-lifecycle/c/Te-KYsaEwcY/m/uuh4hIRhBQAJ>
- [mdbooth] [v1beta1 tasks](#)
 - Also volume availability zones
 - Addition and adoption of volume and port tags
- [mdbooth] Microversions
 - Did you just rewrite that? New version looks simpler/nicer at first glance

- [lentzi90] Updated WIP PR. Tests are looking good. Some of this should likely move to gophercloud (was just easier to test directly in CAPO). Collaborating with dtantsur on that.
- Gophercloud WIP: <https://github.com/gophercloud/gophercloud/pull/2791>
- [pierre] Where can I read what the required use case is
 - [lentzi90] Described in the PR
 - [mdbooth] See <https://github.com/kubernetes-sigs/cluster-api-provider-openstack/pull/1691#issuecomment-1740876852>
- [mdbooth] API documentation PR: <https://github.com/kubernetes-sigs/cluster-api-provider-openstack/pull/1702>

Wednesday 20 Sep 2023 - 14:00 UTC

[Recording](#)

Attending

- Matthew Booth - Red Hat
- Lennart Jern - Ericsson
- Maysa Macedo - Red Hat

Agenda

- [mdbooth] Release cadence
 - Try to align with CAPI releases.
 - CAPI + X weeks (X = 2?)
- [mdbooth] Possible near-term Red Hat priorities
 - IPv6 support: dual, then single stack
 - IPv6 support: BYO network
 - APIServer 'internal LB' mode
 - I.e. support for KubeVIP or keepalived
 - I think these can all be implemented in a new API without removing the old one (i.e. could be done in v1beta1)
- [mdbooth] v1alpha8/v1beta1
 - Remove Floating IP from Machine Spec
 - Call to action
 - Lets review at every Office Hours until it's done

Wednesday 06 Sep 2023 - 14:00 UTC

[Recording](#)

Attending

- Lennart Jern - Ericsson
- Matthew Booth - Red Hat
- Matt Pryor

Agenda

- [mdbooth] API conversion changes for v0.8
 - <https://github.com/kubernetes-sigs/cluster-api-provider-openstack/pull/1626>
- [matt pryor] data disks
 - Etc on fast volume type
 - Following Azure model of DataDisks
 - Kubeadm refers to disk by LUN
 - Problem: can't refer to disks by ID
 - Nova attachment API looks promising, perhaps with custom udev rule
 - Check with Mathieu: does Flatcar have curl?
 - Mathieu: "yes, Flatcar has curl installed"
- [mdbooth] local disk for etcd

Wednesday 26 Jul 2023 - 14:00 UTC

[Recording](#)

Attending

- Matthew Booth (Red Hat)
- Mathieu Tortuyaux (Microsoft)

Agenda

- [mdbooth] Experimental release templates
 - Not 'experimental'. Alpha?
 - Not keep on separate repo
 - How to enable alpha templates in CAPI?
 - clusterctl.yaml

Wednesday 12 Jul 2023 - 14:00 UTC

[Recording](#)

Attending

- Sean Schneeweiss - Mercedes-Benz Tech Innovation
- Mathieu Tortuyaux - Microsoft
- Matthew Booth - Red Hat

Agenda

- [tormath1] add a `maintainer-doc.md` for providing some (temporary?) maintainer tips (like the Flatcar update)
 - Add Maintenance Task Section in the CAPO book, including Flatcar update
- [tormath1] KCD Munich talk about Flatcar + CAPO next week. Any important items to mention?
 - Bring more stability rather than *new* features
- [sean] Status of Sean and Tobias as maintainers
- [mdbooth] Release 0.8
 - v1alpha7 remains
 - Conversion issues in progress
 - Large size of data annotations: is it a problem?
- [mdbooth] Large size of status object
 - Do we need to list all security group rules in status, or is just Name/ID ok?

Wednesday 31 May 2023 - 14:00 UTC

Cancelled: no agenda

Wednesday 17 May 2023 - 14:00 UTC

[Recording](#)

Attending

- Sean Schneeweiss, Tobias Giese - Mercedes-Benz Tech Innovation
- Matthew Booth, Pierre Prinetti - Red Hat

Agenda

- [mdbooth] API cleanups
- [tobiasgiese] [cluster-api-migration](#), added CAPO PoC
 - Only tested with DevStack

Wednesday 03 May 2023 - 14:00 UTC

[Recording](#)

Attending

- Pierre Prinetti - Red Hat
- Lennart Jern - Ericsson
- Mathieu Tortuyaux - Microsoft
- Sean Schneeweiss - Mercedes-Benz Tech Innovation

Agenda

- [mdbooth] Remove or don't remove v1alpha3 and v1alpha4:
<https://github.com/kubernetes-sigs/cluster-api-provider-openstack/pull/1527>
 - Agreed. Kill these asap, then deprecate v1alpha5 only (not v1alpha6)
- [lentzi90] Roadmap for the rest of the year? It would be nice to have some overall plan for what we expect to do, e.g. minor/patch releases, any major new features or similar.
 - We don't have one. We need developers.
- [lentzi90] Microversion brainstorming/discussion.
<https://github.com/kubernetes-sigs/cluster-api-provider-openstack/issues/1448>
 - There seems to be agreement that users should not be allowed to set the version freely, CAPO has to control this.
 - Having some kind of flexibility with the microversions is important to us because we (expect to) run CAPO in many different settings where we don't have full control over the OpenStack version or configuration.
 - I'm looking for ideas for where/how to start adding support for more versions. Even just examples of code that are sensitive to the version would be helpful.
 - Lets have a design document to continue the discussion
- [mdbooth/sean] Logging standards:
<https://github.com/kubernetes-sigs/cluster-api-provider-openstack/issues/1314>
 - Outside possibility of getting an intern to take this on. Anybody want to mentor?

Wednesday 19 April 2023 - 14:00 UTC

Cancelled due to KubeCon

Wednesday 5 April 2023 - 14:00 UTC

[Recording](#)

Attending

- Matthew Booth - Red Hat
- Lennart Jern - Ericsson
- Mathieu Tortuyaux - Microsoft
- Pierre Prinetti - Red Hat

Agenda

- [mdbooth] Overview of backwards-incompatible restrictions removing Networks
- [mdbooth] Deleting v1alpha3 and v1alpha4
 - Everybody nodded
 - [tormath1] Announce it on Slack
- [pierre] Gophercloud release cycle
 - Bulk create ports: do we support that in gophercloud?

- [mdbooth] CAPI 1.4.1 is released

Wednesday 22 March 2023 - 14:00 UTC

[Recording](#)

Attending

- Matthew Booth - Red Hat
- Lennart Jern - Ericsson
- Mathieu Tortuyaux - Microsoft

Agenda

- [lentzi90] Removal of securityGroups field in favour of securityGroupFilters: <https://github.com/kubernetes-sigs/cluster-api-provider-openstack/pull/1291>
 - Original suggestion was to remove securityGroups and rename securityGroupFilters to securityGroups.
 - Proposal: Keep securityGroupFilters as is and just remove securityGroups. This is much easier to understand and handle conversions for. It is also less work for users.
- [mdbooth] OS images
 - Ask k8s-infra if we could have a custom cloudbuilder with nested virt
 - #sig-k8s-infra
 - #sig-testing
 - #testing-ops
- [mdbooth] API conversion

Wednesday 8 March 2023 - 14:00 UTC

[Recording](#)

Attending

- Matthew Booth - Red Hat
- Lennart Jern - Ericsson

Agenda

- [mdbooth] Faster cadence for point releases
 - Everything merged to release branch is potentially releasable.
 - Lets make point releases every 1-2 weeks according to workload.
- [mdbooth] Potential API changes for v1alpha7
 - My primary goal is a cleanup and simplification of PortOpts in support of Failure Domains.

- Secondary goal is removal of Networks
- Tertiary goal is removal of internal [Network type](#) including refactoring internal code to no longer use it, and removing it from the external API if possible.
- Intermediate: removal of [OpenStackMachineSpec.Subnet](#). It seems to be unused and the implementation is messy and in code I'd like to remove. Mnaser seemed to think AccessIPV4 was unused by users in his public cloud.
- [lentzi90] Clean up SecurityGroupFilters:
<https://github.com/kubernetes-sigs/cluster-api-provider-openstack/pull/1291>
- [mdbooth] Generating OS images from cloudbuild
 - If we can create make targets for OS images I think we could automate the pushing of them to our gcloud storage bucket. E.g.:
 - make ubuntu-2004-1.26
 - Creates image called ubuntu-2004-1.26-<date>
 - make flatcar-1.26
 - Creates image called flatcar-1.26-<date>
- [mdbooth] Remove legacy cloud provider templates as it's no longer included in 1.26
- [mdbooth] Governance: could we write down how we manage our current maintainers? Is it already written somewhere? What is a good number of maintainers to have for a project our size?

Wednesday 22 February 2023 - 14:00 UTC

[Recording](#)

Attending

- Matthew Booth - Red Hat
- Lennart Jern - Ericsson
- Wolodja Wentland - Wavecon
- Pierre Prinetti - Red Hat

Agenda

- Mathieu is working on Flatcar
- [mdbooth] Remove legacy cloud provider templates as it's no longer included in 1.26
 - Lennart might have bandwidth at some point
- [lentzi90] Possible to get a v0.7.1 release with the security fixes (and more?) before March?
 - Running e2e-full test on
<https://github.com/kubernetes-sigs/cluster-api-provider-openstack/pull/1488>
- [wolodja] Cilium support
 - [mdbooth] All agreed, but need somebody to work on it
- [mathieu] CI: What is required in the image for running the e2e tests?

Wednesday 25 January 2023 - 14:00 UTC

[Recording](#)

Attending

- Matthew Booth , Pierre Prinetti - Red Hat
- Lennart Jern - Ericsson
- Sean Schneeweiss - Mercedes-Benz Tech Innovation
- Wolodja Wentland - Wavecon

Agenda

- [mdbooth] Release-0.7 status? I haven't been keeping up, but saw some issue.
 - Try to work out what this was. Investigate before release.
- [mdbooth] Working on failure domains again RSN
- [mdbooth] Remove legacy cloud provider templates as it's no longer included in 1.26
 - We should do this before 0.8 (release blocker)
- [pierre] Gophercloud to release 1.2.0 including port value_specs

Wednesday 11 January 2023 - 14:00 UTC

[Recording](#)

Attending

- Lennart Jern - Ericsson
- Pierre Prinetti , Matthew Booth - Red Hat
- Wolodja Wentland - Wavecon

Agenda

- (mdbooth) Release 0.7 Go/No go
 - <https://github.com/kubernetes-sigs/cluster-api-provider-openstack/issues/1438>
 - Determine if this is a regression. If not (i.e. new feature in 0.7) suggest releasing anyway. If so, fix first.
- (mdbooth) Removing old apis
 - With release of 0.7 current will be v1alpha6
 - We should almost certainly remove v1alpha3
 - We should at least have a roadmap for removing v1alpha4
 - Relevant issue:
<https://github.com/kubernetes-sigs/cluster-api-provider-openstack/issues/1326>
 - TL;dr we would need to write a tool to do this. So... probably not soon.
 - Lesser goal: can we communicate which versions we support and to what extent?

- Document support levels in README
- (Lennart) What can we do about wrong kubeadm/kubelet version in CI?
 - **All e2e tests are currently run with v1.23.10**
 - <https://github.com/kubernetes-sigs/cluster-api-provider-openstack/issues/1429>
 - Lennart to investigate using vanilla Ubuntu image in CI, install reqs during initialisation
- (Lennart) Plans/opinions for how to handle microversion?
 - We have a use case for both higher and lower versions, for older openstack versions and environments requiring newer features than currently supported in CAPO.
 - Idea: Accept microversion from clouds.yaml (or default). Validation features used in OpenStackMachineTemplate based on microversion.
 - Currently Nova microversion 2.53
 - Uses
 - All volumes multi-attachable: recent microversion
 - Also older version than currently supported, as long as no new features are used
 - Suggestion to associate microversion with specific feature requests
 - Should document supported OpenStack versions in README