

Skydive

Meeting Notes

General Information

- Weekly on Thursday from 17:00AM to 17:30 AM (CEST)
- Meeting room : <https://meet.jit.si/skydive-project>
- Calendar : [Calendar](#)

Meeting Notes

April 22, 2021

- Attendees
 - Sylvain Afchain
 - Oran Nahoum
 - Sylvain Baubeau
 - Nicolas Planel
- Agenda

April 8, 2021

- Attendees
 - Sylvain Afchain
 - Eran Reichstein
 - Oran Nahoum
 - Sylvain Baubeau
 - Adrian Moreno
 - Aidan Shribman
- Agenda
 - Operator
 - Oran is making progress in the submission of the operator to the Operator Hub. Had to do many changes to the structure. Changes will be propagated to the skydive-golang-operator once merged.
 - Federation

- Pushed a PR (<https://github.com/skydive-project/skydive/pull/2369>) regarding peering clusters
 - Distinction between “core” graph attributes (ID, host, origin) and the metadata
 - G.V().Has("@Host", "myhost")
 - <https://github.com/skydive-project/skydive/pull/2349> close to be merged
 - OVN plugin state
 - Goal is to stop using go-ovn and rely on libovsdb only
 - Expect a lot of activity in libovsdb for the next weeks

March 11, 2021

- Attendees
 - Sylvain Afchain
 - Eran Reichstein
 - Oran Nahoum
 - Sylvain Baubeau
 - Nicolas Planel
 - Aidan Shribman
- Agenda
 - Operator
 - Good progress, now working on Kind
 - Going to work on flow exporter and prometheus connector
 - UI / Container
 - Need to remove the extra new UI container as the new UI is part of the analyzer container now
 - Need to check that latest ($\geq 0.1.7$) version is used
 - This PR should be OK and wait to be merged
 - <https://github.com/skydive-project/skydive/pull/2346>
 - How to test kubernetes-ovn, what version

March 4, 2021

- Attendees
 - Sylvain Afchain
 - Eran Reichstein
 - Oran Nahoum
 - Sylvain Baubeau
 - Nicolas Planel
 - Aidan Shribman
- Agenda

- Operator
 - Switch configuration from YAML to environment variables
 - CI testing : SB will create a CI job using k3d for the Skydive repository that could be reused for the operator tests
- An outdated version of the new UI is bundled into Skydive. SA will create a new NPM tag and display the Skydive and UI versions
- Discussion about when we deprecate the old UI
- At the some point, Skydive was able to enrich flows but that was removed
- Discussed about extended the Gremlin language:
 - Add a step implemented in Go
<https://github.com/skydive-project/skydive/tree/master/gremlin/traversal>
 - Add a step implemented in JavaScript using the “Workflow” step
<https://github.com/skydive-project/skydive/pull/1161/>

February 25, 2021

- Attendees
 - Sylvain Afchain
 - Eran Reichstein
 - Oran Nahoum
 - Sylvain Baubeau
 - Nicolas Planel
- Agenda
 - Oran pushed a version of the Go operator
 - ES alias fixes
 - Docker image builds are currently broken.
Would be nice to post a message on Slack (using Notify Repeated Failure Only ?)
 - Eran did try to do a demo of the new Web UI
Next week we could write a short “script” of a possible demo:
 - Filtering
 - Grouping
 - ...

February 18, 2021

- Attendees
 - Aidan Shribman
 - Adrian Moreno

- Eran Reichstein
- Oran Nahoum
- Aidan Shribman
- Agenda
 - Oran is still working on the Operator
 - Maybe provide a simple way to test the operator for dev purpose and CI, not without to have a full Openshift environment
 - Do we want to have a modular operator, one component by one or all bundled.
 - Agent, Analyzer, UI, Flow exporter
 - Need to handle hierarchy of analyzer
 - Good progress on the new UI filtering
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February 11, 2021

- Attendees
 - Sylvain Baubeau
 - Aidan Shribman
 - Adrian Moreno
 - Nicolas Planel
 - Eran Reichstein
 - Oran Nahoum
- Agenda
 - New UI can now be bundle into the Skydive binary, just like the “old” one
 - Still trying to tackle some Elasticsearch issues
 - No time to work on CI testing for the new helm chart
 - We could use k3d instead of minikube for our Kubernetes tests
We need to build the a local Docker image
 - Oran is working on a Golang operator
(github.com/skydive-project/skydive-golang-operator/)
 - Discussion on why Skydive is using etcd
 - API object
 - Persistency
 - Master election
 Could K8s CRDs be used instead ?
 - CVE inside gogo/protobuf
<https://cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2021-3121>

February 4, 2021

- Attendees
 - Sylvain Afchain
 - Sylvain Baubeau
 - Aidan Shribman
 - Adrian Moreno
 - Nicolas Planel
 - Eran Reichstein
 - Oran Nahoum
- Agenda
 - Aidan made some experiments using fleet to deploy multiple Kubernetes deployments with their own Skydive analyzer and a single separated analyzer called 'broker'. Right now, every analyzer replicates its graph with the others. We had a plan to configure one way replication.
 - Sylvain B. tried to fix some Elasticsearch issue regarding the persistent graph feature
 - Sylvain A. is working on integrating the new Web UI into Skydive. This will also address the issue of using the new UI within the Helm charts
Changed group expanding and display offset.

January 28, 2021

- Attendees
 - Sylvain Afchain
 - Sylvain Baubeau
 - Aidan Shribman
 - Adrian Moreno
 - Nicolas Planel
 - Eran Reichstein
 - Oran Nahoum
- Agenda
 - [Adrian Moreno] OVN visibility in Skydive presentation

January 21, 2020

- Attendees

- Sylvain Afchain
 - Sylvain Baubeau
 - Aidan Shribman
 - Adrian Moreno
 - Eran Reichstein
 - Nicolas Planel
- Agenda
 - Got an answer from Red Hat regarding CentOS end of life wanted to discuss about our CI needs [news](#)
 - The prometheus exporter resides in the skydive-flow-exporter but it's not part of the Docker image => include it.
Discuss about integration into Skydive itself :
<https://github.com/skydive-project/skydive/issues/2273>
 - Still some random test failures : we need to keep track of them and **fix them !**
 - Aidan demoed the new Helm charts
We need to clarify that the previous helm chart (in skydive-helm repository) will be deprecated
 - Go-ovn: issue supporting multiple version of OVN
 - New Elasticsearch license [here](#)

January 14, 2020

- Attendees
 - Sylvain Afchain
 - Sylvain Baubeau
 - Aidan Shribman
 - Oran Nahoum
 - Eran Reichstein
 - Nicolas Planel
- Agenda
 - Aidan getting back to Skydive during his free cycles
Use k3s or kind instead of minikube
 - IBM security advisor is now GA and using VPC Flow Logs (powered by Skydive)
<https://www.ibm.com/cloud/blog/announcements/security-insights-now-generally-available-in-the-security-and-compliance-center>
Istio is suboptimal doing strange things with loopback
 - WebUI : issues with captures
Convert current index.html to template to inject user content

- We need to move forward on the vendoring of the new Web UI inside Skydive : use latest NPM version of skydive-ui

January 8, 2020

- Attendees
 - Sylvain Afchain
 - Sylvain Baubeau
 - Eran Reichstein
 - Adrian Moreno
- Agenda
 - WebUI
 - The Skydive and UI version is not displayed
 - The /api route does not return the correct version
<https://github.com/skydive-project/skydive/pull/2323>
 - Issue with default filtering : use 2 different gremlin queries
 - Expand a huge group (such as container group) can cause crash
 - Create repository and ask people if they can/want to share topologies
 - There are still runc containers not linked to pods (operators for instance)
Use the last dump to understand what's happening
 - Kubernetes templates
 - Integration with new Web UI is done

December 17, 2020

- Attendees
 - Sylvain Afchain
 - Sylvain Baubeau
 - Eran Reichstein
 - Adrian Moreno
 - Nicolas Planel with a beard
- Agenda
 - Kubernetes templates
 - Started to integrate the new Web-UI
 - Runc
 - We need to add a link between Runc container and Kubernetes container like for Docker container
 - Fixed a bug with newest runc
 - Would be nice to interact with crictl to support runc, docker, CRI-O, you name it

- Retry mechanism : tracking progress in <https://github.com/skydive-project/skydive/issues/2310>
All the logic is already there : <https://github.com/skydive-project/skydive/blob/master/topology/probes/wrapper.go>
 -
 - Web-UI
 - Auto filtering, start graffiti to handle gremlin filter
 - Release
 - Issue with the version reported

December 10, 2020

- Attendees
 - Sylvain Afchain
 - Sylvain Baubeau
 - Eran Reichstein
 - Oran
 - Adrian Moreno
 - Nicolas Planel
 - Darshan
- Agenda
 - New release 0.27, new binary and container
 - Nightly build are back
 - Two versions of Kubernetes yaml deployment file, which one should be used ?
 - contrib/kubernetes
 - Has to be fixed
 - contrib/openshift
 - Need to check that we can use this one on kubernetes
 - Do we need to replace docker by runc probe by default on kubernetes deployment
 - Docker probe keeps logging when docker runtime is not present.
 - Same for Runc
 - Resurrect the retry mechanism, logging at start and then logging time to time.
 - Add the new UI part of the openshift/kubernetes deployment
 - Add dedicated filters, maybe on namespaces ?

December 3, 2020

- Attendees
 - Sylvain Afchain
 - Sylvain Baubeau
 - Eran Reichstein
- Agenda
 - Sylvain Baubeau
 - Fixed a persistent graph bug
 - Rebased a PR from Adrian to support SSL, authentication and multiple hosts for Elasticsearch
 - Add node and edge APIs to Graffiti
 - Add CLI for Graffiti
 - Sylvain Afchain
 - Fixed a bug related to UI scalability issue

November 26, 2020

- Attendees
 - Sylvain Afchain
 - Sylvain Baubeau
 - Eran Reichstein
 - Oran
 - Adrian Moreno
 - Nicolas Planel
- Agenda
 - Sylvain Afchain
 - Checked the Docker image for the new Web UI
 - Updated npm dependencies
 - Add prefix to all ES indices
 - Sylvain Baubeau
 - Pushed a fix for the maximum number of indexes fields in ES
 - CI improvements (K8S mostly)
 - Eran
 - Would be nice to have a list of K8s namespaces
 - Release
 - Persistent graph bug identified
 - Adrian
 - No link between the pods and the runc containers
 - Linker is based on Docker specific labels
 - Issues with the socketinfo probe when using Kubernetes

- IP conflict ?
- NAT
- All the socketinfos are attached to the agent node
- Ovsprototrace [example link](#)

November 19, 2020

- Attendees
 - Sylvain Afchain
 - Sylvain Baubeau
 - Russell Bryant
 - Eran Reichstein
 - Adrian Moreno
 - Nicolas Planel
- Agenda
 - Eran
 - Small PR to fix an NPM issue
 - Authentication issue with the Web UI
 - Skydive client topology export
 - Sylvain B
 - Haven't done a release in almost a year, looking to do a release soon
 - Have a few fixes targeted to complete first
 - Support of multiple elasticsearch hosts
 - Elastic search too many indexed fields issue
 - (Adrian) What is the release policy / process?
 - Was previously time based, every 2 months
 - Or before "breaking everything" :-)
 - No real policy right now, though
 - Suggestion: include ovn probe fix in next release
 - (russellb) Idea/question: Use github milestones and targeting to reflect what's targeted at the next release?
 - Need CI jobs passing before release
 - Russell
 - Working on golang based operator
 - For now, russell to bootstrap the project
 - Future thoughts on naming ...
 - Rename current operator to skydive-helm-operator
 - Make new operator skydive-operator?
 - Maybe not worth it, don't want to break existing users of current operator. The name isn't that important.
 - Create new repo: skydive-golang-operator
 - Empty repo

- Give russellb access
 - Or can just wait for russell to make something that works before creating a new repo under skydive
 - <https://github.com/openshift/skydive-operator/pull/4> -- status of PoC
 - You create a Skydive custom resource (which has no fields for configuration yet)
 - Skydive controller then creates ConfigMaps / Service / Deployment / DaemonSet, roughly equivalent to default skydive.yaml, with some tweaks for what works on openshift (most to be replaced by configuration)
 - Plenty of TODOs in the code ...
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- New UI status
 - When / how to make it available by default?
 - Feature gaps compared to the old UI
 - Openflow browser
 - Packet injection?
 - Sylvain A to push new version of UI in the next week or two
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October 15, 2020

- Attendees
 - Sylvain Afchain
 - Sylvain Baubeau
 - Adrian Moreno
- Agenda
 - Issue with Elasticsearch indexes : too many fields are indexed
 - A fix was proposed a long time ago, does it still work ?
 - Discussed about allowing ofproto/trace based on historical OpenFlow metadata
 - Does it make sense to add a Prometheus exporter

March 12, 2020

- Attendees
 - Sylvain Afchain
 - Sylvain Baubeau
 - Aidan Shribman (IBM)
 - Eran Rachtein
 - Mathilde Gilles
- Agenda

- Misc:
 - Scale question regarding topology socketinfo. Still need to test at scale
 - UI: being able to add edge from the UI directly
- PRs
 - Lots a PR related to extracting Graffiti from Skydive, almost done
 - Graffiti UI will be extracted too and used as a library by the Skydive UI

February 20, 2020

- Attendees
 - Sylvain Afchain
 - Aidan Shribman (IBM)
 - Tim Epkes (Dell)
 - Liam Murphy (Dell)
 - Darshan Vandra (Red Hat)
- Agenda
 - Misc:
 - Is there a way to get empty slots using sysfs ? Need to reach out to the right people at Red Hat (Numan)
 - Skeleton for a probe
 - PRs
 - Lots a PR related to extracting Graffiti from Skydive

February 13, 2020

- Attendees
 - Sylvain Afchain
 - Eran Rachtein
 - Aidan Shribman
- Agenda
 - Misc:
 - WebUI, some fixes around link labels, still need to fix right to left links
 - WebUI bandwidth colors need to be re-introduced
 - PRs
 - Helm splitting analyzer and agent roles, great approach
 - eBPF TCP timestamp issue PR merged need to confirm that the main issue is addressed

February 6, 2020

- Attendees
 - Sylvain Baubeau
 - Eran Rachtein
 - Aidan Shribman
- Agenda
 - Misc:
 - Extracting graffiti, providing the WebUI without the Skydive taste
 - WebUI provide a way to get back the bandwidth on links
 - Issues:
 - K8S library, going to duplicate files or code
 - Docker image tag not correct
 - PRs
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January 30, 2020

- Attendees
 - Sylvain Baubeau
 - Eran Rachtein
 - Aidan Shribman
- Agenda
 - Misc:
 - FOSDEM presentations
 - Web UI updates
 - Issues:
 - CI issues (tests not triggered because of contributor not listed in whitelist)
 - Need to discuss with Alexandra
 - Kubernetes API versioning : Skydive should support multiple versions of the API
Note: A resource is tied to a version so we should multiple API versions for the same Kubernetes instance
 - PRs
 - Node/Edge rule API
 - Alexey Roytman will be merged once the tests passed

January 23, 2020

- Attendees

- Sylvain Afchain
- Sylvain Baubeau
- Eran Raichetein (IBM)
- Aidan Shribman (IBM)
- Darshan Vandra (Red Hat)

- Agenda
 - Issues:
 - Replication, peering
 - PRs
 -
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January 16, 2020

- Attendees
 - Sylvain Afchain
 - Sylvain Baubeau
 - Eran Raichetein (IBM)
 - Darshan Vandra (Red Hat)

- Agenda
 - Misc.
 - Flow export docker image is published
 - UI: re-add the timeline
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 - Issues:
 - Ebpf timestamp
 - PRs
 - Skydive operator, merged, need to test a bit more
 - Publish the operator ? operator hub ?
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January 09, 2020

- Attendees
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- Agenda
 - eBPF Batched map operations are coming to the kernel
<https://lwn.net/Articles/808503/>

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January 02, 2020

- Attendees
 - Sylvain Afchain
 - Sylvain Baubeau
 - Aidan Shribman (IBM)
- Agenda
 - Misc.
 - <https://github.com/skydive-project/skydive-flow-exporter/issues/22>
 - 2 talks to prepare
 - Issues
 -
 - PRs
 - Need to review the operator / helm PRs
 - <https://github.com/skydive-project/skydive-flow-exporter/pull/25>
Merged
 - <https://github.com/skydive-project/skydive-flow-exporter/pull/26>

December 19, 2019

- Attendees
 - Sylvain Afchain
 - Eran Raichetein (IBM)
 - Sylvain Baubeau
- Agenda
 - Misc.
 - Fosdem presentation, graph database talk accepted
 - UI
 - Ability to do lazy loading, playing with filtering and overriding the double click, so that if the user double click the UI can reload with another filter.
 - Issues
 - RPM are too old, need to have a recent version of Golang
 - PRs
 - Need to review the operator / helm PRs

December 12, 2019

- Attendees
 - Sylvain Afchain
 - Eran Raichetein (IBM)
 - Sylvain Baubeau
 - Aidan Shribman (IBM)
 - Darshan Vandra (Red Hat)
- Agenda
 - Misc.
 - UI
 - Add more examples to the demo page
 - Find a way to use different config.js dynamically
 - Being able to pass filter to the url in order to load different view from right click or action.
 - Issues
 - Gendecoder float64 not handled
 - Flow exporter, future work, AWS parity
 - PRs
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December 05, 2019

- Attendees
 - Sylvain Afchain
 - Eran Raichetein (IBM)
 - Sylvain Baubeau
 - Aidan Shribman (IBM)
 - Darshan Vandra (Red Hat)
- Agenda
 - Misc.
 - UI
 - Grouping by something else than Type
 - Fix the default config override
 - Allow the right config function to interact with the App
 - Provide Openshift topology examples
 - Issues
 -
 - PRs

- 3 UI PR to be merged

November 21, 2019

- Attendees
 - Sylvain Afchain
 - Eran Raichetein (IBM)
 - Sylvain Baubeau
 - Aidan Shribman (IBM)
- Agenda
 - Misc.
 - Discussion about UI and the ability to use it as standalone.
 - Large topology is still hard to be loaded, maybe using the analyzer with filtering.
 - Create a docker image with the new UI and the analyzer, importing a topology dump as an entry point.
 - Add a “transform” step which will receive a graph and return another graph.
 - Add action on topology entity in order to do lazy loading
 - Issues
 -
 - PRs
 - Add groupName, groupGID instead of groupBy in the

November 14, 2019

- Attendees
 - Sylvain Afchain
 - Eran Raichetein (IBM)
 - Sylvain Baubeau
 - Aidan Shribman (IBM)
- Agenda
 - Misc.
 - Taking operator and helm things out of the skydive repo ?
 - It seems we decided to create dedicated repo
 - skydive-helm
 - skydive-operator
 - Issues
 - UI, icon metadata

- Fix submitted, still need to test (ok)
 - Struggling with the new release generation
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- PRs
 - UI, added the ability to load local dump file
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November 7, 2019

- Attendees
 - Sylvain Afchain
 - Eran Raichetein (IBM)
 - Darshan Vandra (Red Hat)
- Agenda
 - Misc.
 - UI, moved to dedicated repository
 - <https://github.com/skydive-project/skydive-ui>
 - Will add a Dockerfile
 - Misc, think about a way to show path between to interfaces cross cluster, step by step
 - Writing a blogpost
 - Add demo using github pages
 - Issues
 - CI/CD for exporters, <https://github.com/skydive-project/skydive-ci>
 - Good example could be <https://github.com/skydive-project/skydive-collectd-plugin>
 - Check if we need to move the docker build mechanism
 - <https://github.com/skydive-project/skydive/blob/master/scripts/ci/create-docker-image.sh>
 - PRs
 -

October 31, 2019

- Attendees
 - Sylvain Afchain (Red Hat)
 - Sylvain Baubeau (Red Hat)
 - Eran Raichetein (IBM)
 - Masco Kaliyamoorthy (Red Hat)
 - Nicolas Planel (Red Hat)
- Agenda

- Misc.
 - New UI, some interest, need to add the ability to custom edge look and feel.
 - Keep it as an external UI, graffiti ?
 - Use case submariner ? still using command line tools, adding more search variables
 - Add a way to leverage history to node selection/node search
 - Need to add iptables rules
 - Talks submitted to the Fosdem:
 - <https://etherpad.net/p/skydive-fosdem-2020-talk-proposal>
- Issues
 - Kubernetes sha1 issue, need to update the go.mod to fix the “replaces” section
- PRs
 - Flow exporter, remaining effort to have everything working as “plugin”

October 24, 2019 (no meeting)

- Attendees
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- Agenda
 - Misc.
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 - Issues
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 - PRs

October 17, 2019

- Attendees
 - Sylvain Afchain (Red Hat)
 - Masco Kaliyamoorthy (Red Hat)
 - Sylvain Baubeau (Red Hat)
 - Nicolas Planel (Red Hat)
- Agenda
 - Misc.
 - CFP for the Fosdem

- Network:
 - <https://lists.fosdem.org/pipermail/fosdem/2019q4/002886.html>
 - Graph:
 - <https://lists.fosdem.org/pipermail/fosdem/2019q4/002900.html>
- Issues
 - Devstack issue because of golang version issue following go.mod
 - Need to add this
 - <https://github.com/openstack/devstack/commit/ed43ca9856d8187ea6a01a58e6dc52e7411f8f65> to our repo
 - Need to modify here :
 - <https://github.com/skydive-project/skydive/blob/master/devstack/plugin.sh#L125>
 - OVN ACL issue, ACL node not attached to other objects
- Announcements
 - Plugin support is almost there, need a new release of Skydive to have a proper go.mod support.
 - Allow user to write their own probe outside of Skydive
 - Going to provide the ability to add extra javascript/css belonging to the plugins
 - Plugin repo: <https://github.com/skydive-project/skydive-plugins>
 - First PR: <https://github.com/skydive-project/skydive-plugins/pull/1>
 - New UI still in progress, right panel refresh almost done
 - Will work on graph
 - Will work Authentication
- PRs
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October 10, 2019

- Attendees
 - Sylvain Afchain (Red Hat)
 - Sylvain Baubeau (Red Hat)
 - Eran Raichetein (IBM)
 - Aidan Shribman (IBM)
 - Nicolas Planel (Red Hat)
 - Masco Kaliyamoorthy (Red Hat)
- Agenda
 - Misc.
 - Discussion about contrib projects
 - Need to be sure that the CI job will be triggered if either Skydive or sub-project change.

- Need to have all the same release tags for Skydive and all the projects.
- They will have dedicated readme, issues, PR, etc.
- Should we move other sub contrib folders to dedicated repo ?
- Collectd moved to a dedicated repository
 - <https://github.com/skydive-project/skydive-collectd-plugin>
- TripleO related thing moved as well
 - <https://github.com/skydive-project/skydive-tripleo-inventory>
- Do we need to do it for flow exporters ?
 - Going to try CD/CI things with Minio tests
 - New release of Skydive to test the process
- UI discussion
 - Improving the config part
 - Add a way to sort table key from the config
- Issues
 - Can we move the name of the repository from 'skydive-flow-exporters' to 'skydive-flow-exporter' (without the s). Also align this to the name of the executable ... so it will be 'flow-exporter' → YES
- Announcements
 -
- PRs
 - Split bindata of statics and eBPF
 - Unit test for eBPF
 - <https://github.com/skydive-project/skydive/pull/1934/files>