

# Hardware Infrastructure

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## OPNFV Lab Resources

This Pharos page explains the current status of **Labs** for support of development, test and CI activities. For future we plan to have dashboards with *live* information.

*Tracking actual capabilities, status and ongoing usage of our diverse community lab resources is non-trivial ... however its needed to support projects and releases with accurate planning. To achieve this we need easy visibility of our lab resources, their capabilities as well as current and past usage.*

Information on **Linux Foundation lab** access and usage is found [here](#).

## Status of Production CI Resources

Production CI Resources are the resources (full baremetal PODs or standalone machines) that are tied to CI on 24x7 basis with no manual intervention. These resources are used for

- running bare metal deployment and testing on Jenkins automatically
- running virtual deployment and testing in order to gate commits
- builds, unit tests

Information on test combinations and allocations/combinations/hardware dependencies can be seen from [Colorado Scenario Inventory](#).

Discussions regarding alignment of configuration for POD-layout/Build/Deploy/Test can be seen from [Configuration File Alignment Discussions](#).



**THE TABLE BELOW IS OUTDATED. PLEASE CHECK [labs.opnfv.org](https://labs.opnfv.org).**

### Resources Used for CI Bare Metal Deployment and Testing

Resource Name	Resource Type	Architecture	Purpose /Installer	Operational Status	Running CI Bare Metal Deploys	Notes
lf-pod1	Pharos POD	x86	Apex	OK	Yes	Participated in <b>Colorado Release</b> .
lf-pod2	Pharos POD	x86	Fuel	OK	Yes	Participative in <b>Colorado Release</b> .
lf-pod4	Pharos POD	x86	OSA with XCI	OK	WIP	Testing Baremetal deployment of installer OSA with XCI
ericsson-pod2	Pharos POD	x86	OSA with XCI	OK	WIP	Testing Baremetal deployment of installer OSA with XCI
ericsson-pod3	Pharos POD	x86	Fuel	OK	Yes	
ericsson-pod4	Pharos POD	x86	Fuel	OK	Yes	
intel-pod8	Pharos POD	x86	Compass	WIP	WIP	Waiting confirmation from Compass.
huawei-pod1	Pharos POD	x86	Compass	OK	Yes	Participated in <b>Colorado Release</b> .
huawei-pod2	Pharos POD	x86	Compass	WIP	WIP	Waiting confirmation from Compass.
intel-pod5	Pharos POD	x86	Joid	OK	Yes	Participated in <b>Colorado Release</b> .

intel-pod6	Pharos POD	x86	Joid	<input type="button" value="OK"/>	Yes	Participated in <b>Colorado Release</b> .
arm-pod1	Pharos POD	ARM	Fuel	<input type="button" value="OK"/>	Yes	Participated in <b>Colorado Release</b> .

### CI Servers Used for Virtual Deployments

Project	List of Machines	Notes
Apex	intel-virtual3, intel-virtual4, intel-virtual5	
Compass	huawei-virtual1, huawei-virtual2, huawei-virtual3	
Fuel	ericsson-virtual2, ericsson-virtual3, ericsson-virtual4, ericsson-virtual5, intel-virtual1, intel-virtual2	
Multisite	intel-virtual6	

### CI Build Servers

OS	List of Machines	Projects	Notes
Ubuntu	ericsson-build4, ericsson-build5, arm-build2, <b>lf-build2</b>	compass, fuel, vsperf, yardstick, functest, storperf, fsqm, parser, qtip	Resources marked red are not taken into operation fully even though they are connected to Jenkins. This is due to maintenance reasons.
CentOS	<b>intel-build1</b> , lf-build1	ovsnfv	

See also: [Slaves connected to Jenkins](#)

## Community Lab Resources

Labs listed here are operational and being actively used for either development (features and/or tools), test (feature testing or dedicated to test project), production (dedicated with 24/7 SLA). Note a community lab can provide one or more of these capabilities.

Information on project needs from labs was collected from lab owners by a survey (closed 16 Oct 2015) ... <https://www.surveymonkey.com/results/SM-CYC35WH2>

- 13 community labs currently are used by projects and releng activities
- Labs that are not Pharos compliant may still provide servers as dev resources
- Some labs still need to publish developer access process and guides
- Some labs are not yet setup under Jenkins control
- Labs that suffer from low bandwidth or unstable connections can still be used for specific project activities

For allocation of PODs for testing release B (there are 4 installers) see [Brahmaputra Testing Page](#)

Lab	Pharos compliant PODs	Stand-alone servers	Type / Usage	Production CI operational	Project CI (Test) operational	Developer resources with access guide and process published
China Mobile (Beijing)	1		POD 1 (Fuel) - dev for Functest and Yardstick tools	No	Yes	Yes
Dell (Santa Clara)	3		POD 1 - available for CI allocation; POD 2 Qtip dev and test	No (TBD)	Yes	Yes

Enea	1		HA server config with ARM servers	No	No	No
Ericsson (Montreal)	2	36 Blades	POD 1 (Fuel) - Yardstick testing (proj CI); POD 2 (Fuel) - production CI; N servers used for Dev based on Demand	Yes	Yes	Yes
Huawei (Santa Clara)	2	2	POD 1 (Compass) - production CI; POD 2 - available for dev allocation; 2x servers - VMs available for dev allocation	No (TBD)	Yes	No
Huawei (Xian)	2	4	POD 1 - available for proj allocation; CI POD 2 - available for proj CI allocation; 4x servers - dev for Compass	No	No	No
Intel (Portland)	9	3 (POD 3 - VSPERF)	POD 1 - Apex dev/test; POD 2 - Apex production CI; POD 3 - VSPERF test environment with Ixia traffic generator, OVSNFV, kvm4nfv; POD 4 - CI builds and virt deploys; POD 5 (JOID) - production CI; POD 6 - JOID dev/test; POD 7 - Fuel dev/test; POD 8 - Compass production CI; POD 9 - STORPERF / Bottlenecks	Yes	Yes	Yes
Orange (Paris)	1		POD 1 (Fuel) - used for PoCs (vCPE), Functest dev, proj CI	No	Yes	Yes
Orange (Lanion)	1		POD 1 (identified as Orange POD 2 in Jenkins) - dev for JOID and Functest, temp use as CI POD for JOID for B release	Yes	Yes	No
Spirent (San Jose)		12	Individual servers are used for various dev activities	No	No	Yes
ZTE (Shanghai)	3		POD 1 - CI of Functest and Yardstick based on Fuel(os-odl_l2-nofeature-ha) POD 2 - CI of Functest and Yardstick based on Fuel(os-odl_l2-nofeature-ha) and Qtip and Parser dev/test POD 3 - CI of Functest and Yardstick based on Fuel(os-nosdn-kvm-ha)	No	Yes	Yes
Nokia (Espoo)	1		POD 1 (Fuel) Doctor CI	TBD	Yes	No

## Community Lab Resources - Upcoming

The following organizations are actively working on providing additional OPNFV community labs ...

1. Cable labs - currently have 2 PODs that are currently private resources
2. CENGN - waiting on hardware to complete build out

{group3}