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Bridging the Development Gap and the Commercial Use of Open Source Projects

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What Enterprise Users Need When Incorporating New Technologies

They need innovation, transformation, and fast time to value but they also need...

- Solid and proven solutions
- Integrate-able with what they have existing
- Easy maintenance
- Investment protection

Enterprise Users' Challenges When Adopting Open Source Projects

- Solid and proven solutions
 - Challenge: don't know which ones will stay, which ones are fad
- Integrate-able with what they have existing
 - Challenge: Projects don't integrate well; integration on cross community projects is even a bigger challenge
- Easy maintenance
 - Challenge: Can't keep up with the latest
- Investment protection
 - Challenge: True interoperability/no vendor-lock-in is still a tall order

OpenLab Mission: Uncover the LAMP Stack of Various Open Source Use Cases



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The LAMP of the PC Era

Web Server

Python

MySQL

Apache

Linux



Identify the "LAMP" stacks for the Cloud and AI Era

OpenLab 1.0

OpenLab 2.0

Hybrid Cloud

Cloud Native

AI

Cloud Service Aggregation

Terraform

Scalr

CloudFoundry

K8S

OpenStack

Knative

Istio

Spark

KubeFlow

K8S

TensorFlow

KubeFlow

K8S

Docker

Chip

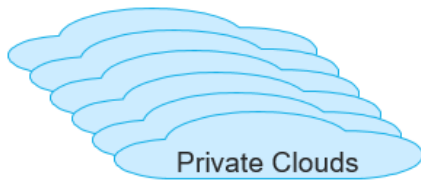
Service Broker

Operator

K8S



openlab



Private Clouds



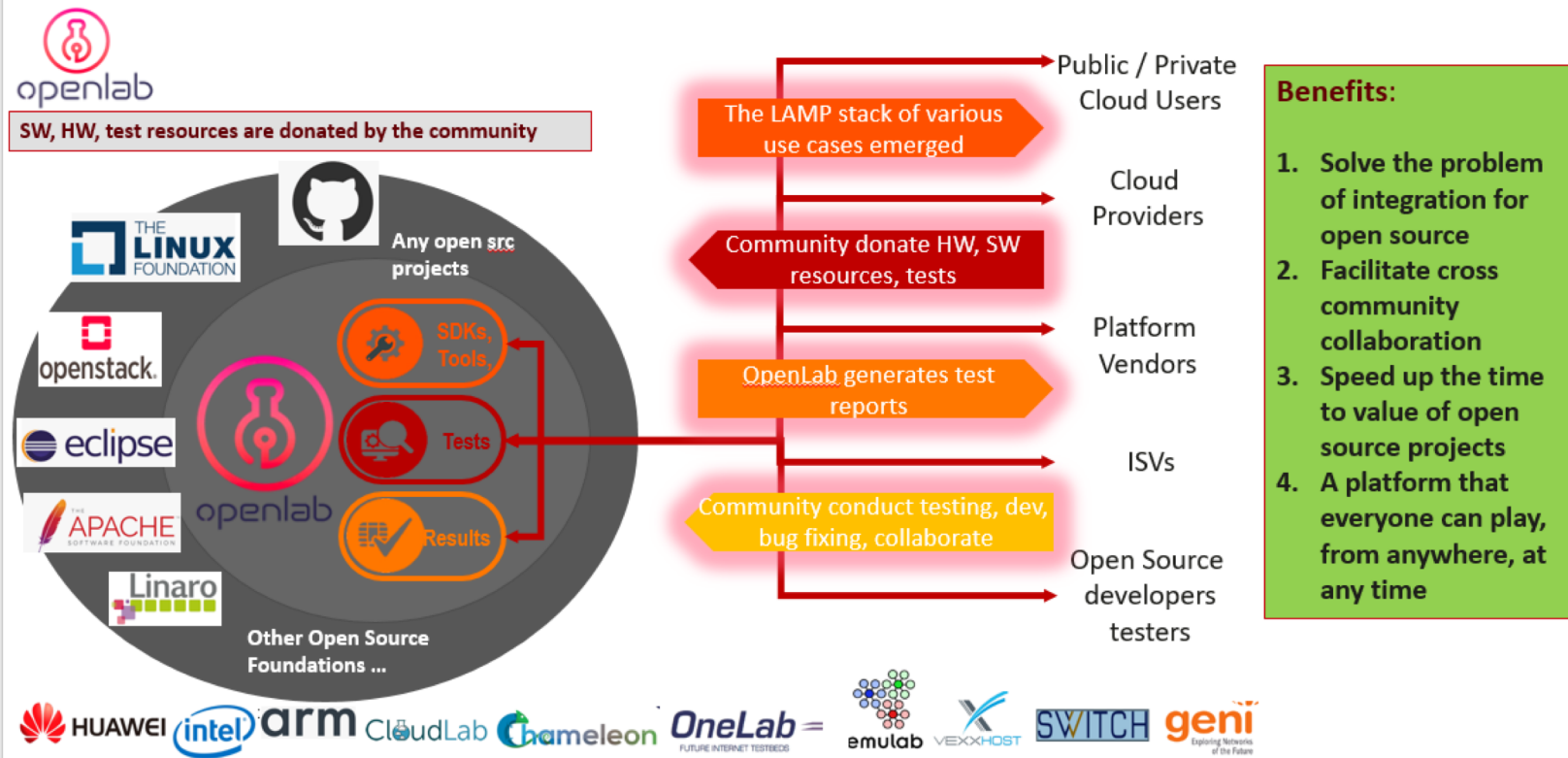
AI Platforms



Public Clouds

- ✓ Seamlessly integrate multiple open source projects to form a de-facto open source software stack for Web servers
- ✓ 70+% of Web Servers today are based on LAMP stack

OpenLab: an Open Source Solution Stack Verification Platform, Created by the Community, for the Community



An Ecosystem Development Community

- Enable the testing, reporting, and verification of open source solutions stacks.
 - Validate independently developed projects work well when used together to build larger solutions
- Provide a space driven by the community, for the community
 - Common ground for different open source communities to collaborate and work together

Benefit to Project Maintainers

- Faster feedback on code changes
- Access to architectures and hardware
- Assurance that their project works well with others
- Improved project reputation
- Less critical issues from users hitting untested scenarios

Benefit to Users

- Easier ability to evaluate open source project selection
- Less surprises after deployment
- Example configurations of larger technology stack

Benefit to Vendors

- Early feedback for support group
- Confidence in providing solutions to customers

Current OpenLab Participants



OPENSIFT



ANSIBLE



etcd



ManageIQ



node



openstack.



kubernetes



Terraform



Packer



...

Tested Open Source Projects

SWITCH



citynetwork



geni
Exploring Networks
of the Future



Emulab



FIT
IOT-LAB

OneLab
FUTURE INTERNET TESTBEDS



DT Open
Telekom Cloud



Telefonica
OpenCloud



Linaro

arm



VEXXHOST



Chameleon

CloudLab



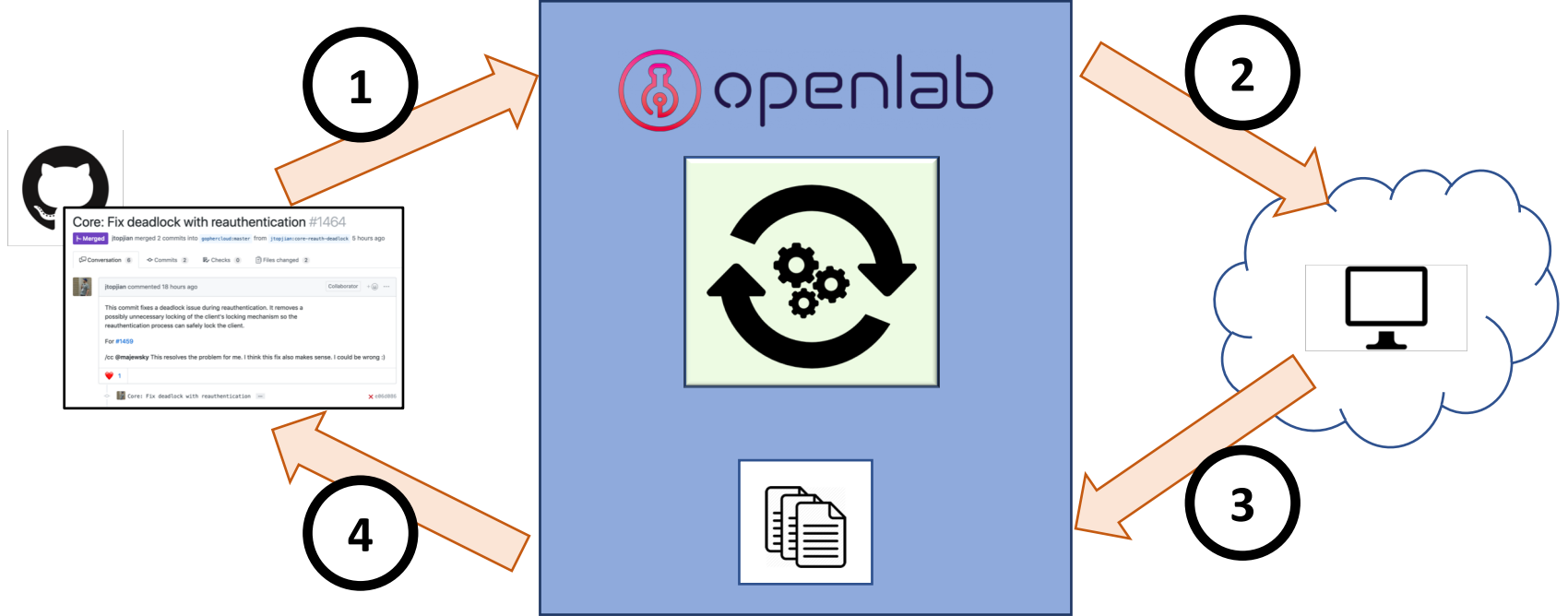
HUAWEI



intel



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Walkthroughs

Program Directors

The program directors are responsible for making decisions for new testing and projects, and for promoting and engaging other projects and communities.

Operations Manager

The operations managers ensure OpenLab infrastructure is working and monitoring for issues affecting testing. They also work with contributors to help with writing test cases and understanding OpenLab capabilities.

Community Members

Members of the OpenLab community are those that write test cases, triage test failures, and make contributions that further the OpenLab mission.

Call to Action

- Become an OpenLab member
 - File an issue under <https://github.com/theopenlab/openlab> to be added
 - OpenLab governance will add users and close the issue when done
- Implement testing
 - Request help implementing test cases, or...
 - Write test cases in-repo or in OpenLab job definitions
- Integrate OpenLab to trigger tests
 - Integrations for Gerrit and GitHub based projects
 - More drivers can be added for other platforms
- Start receiving test results and improving code

<https://openlabtesting.org/get-started>

Join Us!



<https://openlab.groups.io/>



<https://twitter.com/askopenlab>

Thank You!



<https://openlabtesting.org/get-started>



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