

Open Source Software, How the Flash Industry Can Use It Effectively

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Nithya Ruff

Director, Open Source Office

- Over 20 years technology leadership experience
- Drove Open Source work at SGI, Tripwire and Intel Wind River
- Chair, Open Source Working Group
- President, Women's Innovation Network at SanDisk
- Lead Open Source Strategy and Engagement
- @nithyaruff; Views are my own and do not represent WDC



Flash Companies are Software Companies

- Rapid innovation in technology thru open source collaboration
- Customers are asking for Open and Standards based solutions and partners are adopting it
- Flash companies use Open Source Software (OSS) for TTM, innovation and cost savings
- Even if you don't overtly decide to use it, it will come in with 3rd party solutions and you cannot avoid it
 - In fact, 78% of companies say they use open source software*

You can make it work for you or deny it exists

Flash and Datacenter Open Source Software

SW Defined
Datacenter



Datacenter Level
Orchestration API



Object and Key Value
Stores



OpenStack, Ceph, Mesos, Swift, Cassandra, MongoDB, Redis, Docker

Integration

Optimization

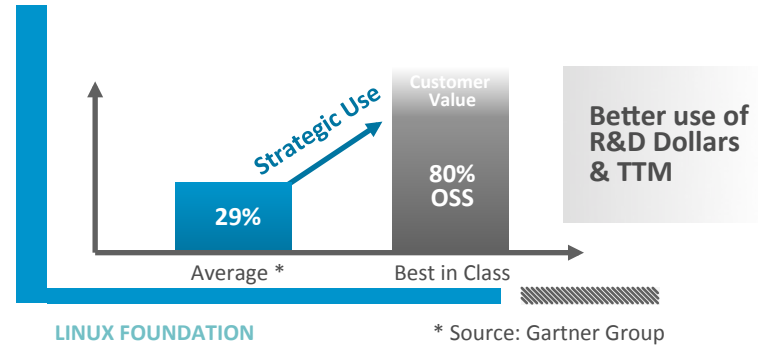
New Architectures

External Development and Standards



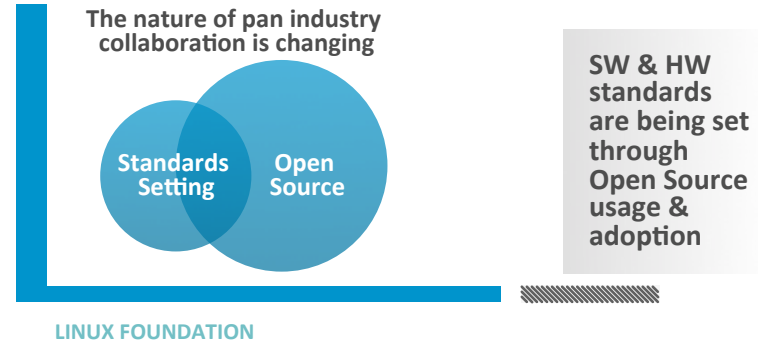
Companies are moving to a strategic use of OSS

Moving to Strategic Use of Open Source

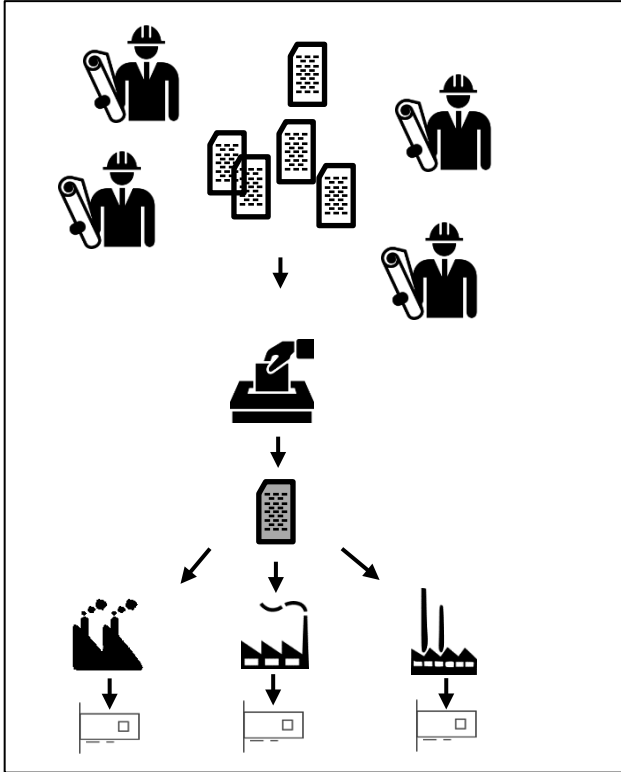


More standards setting happening in Open Source

More Standards Setting Happening in Open Source

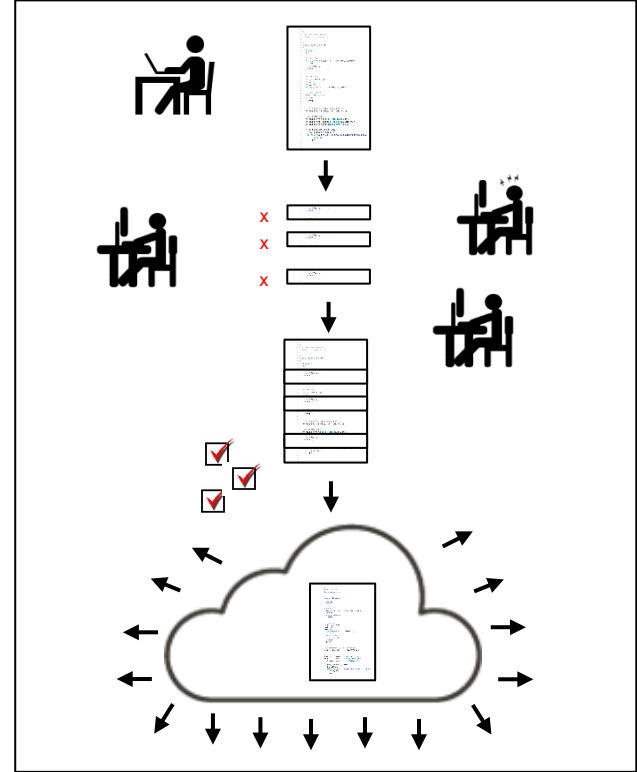


Standards

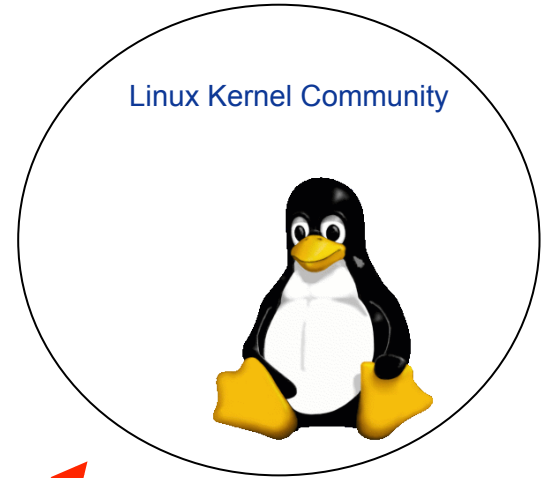
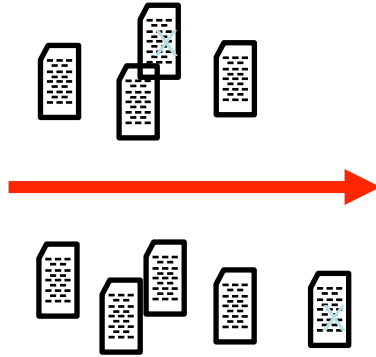


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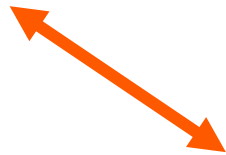
Open Source



One Desired Way



Companies



Benefits of OSS



Cost Savings



Latest Innovation Quality



Expand Ecosystems

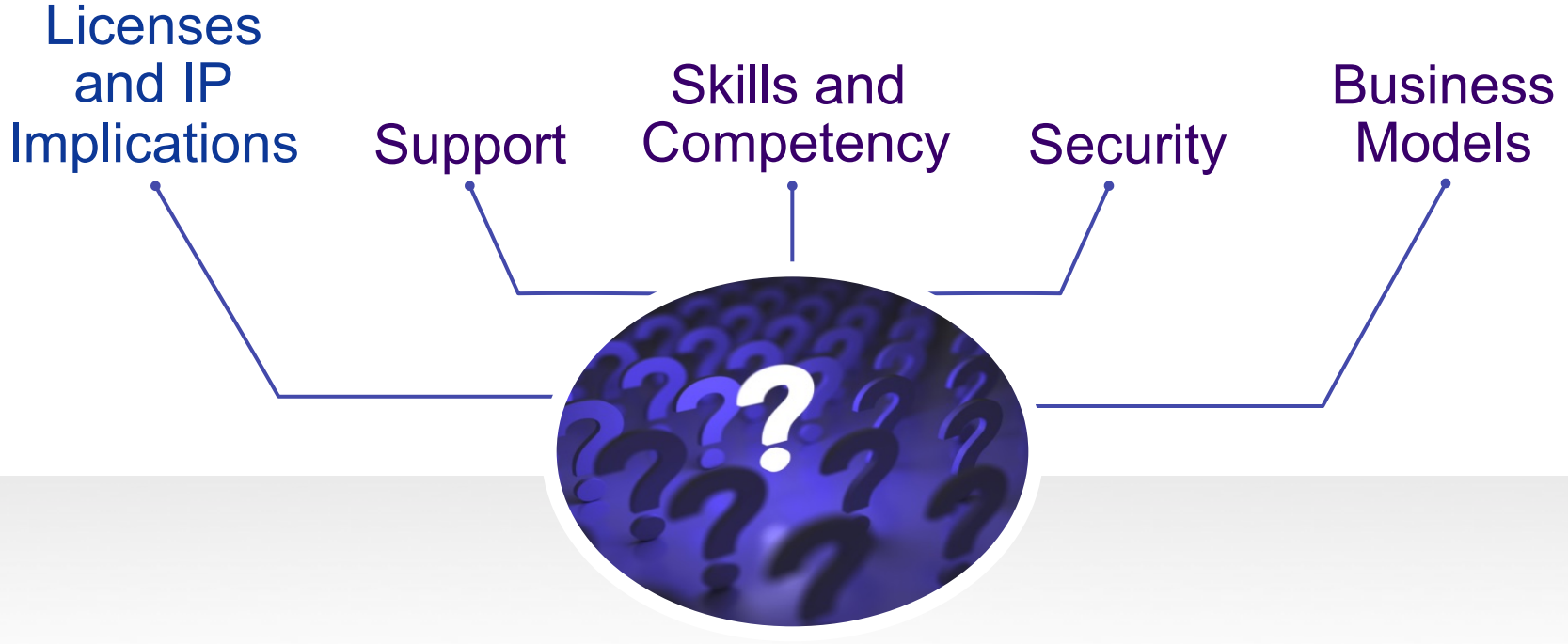


Modifiable



Time to Market

Concerns Around Open Source



THE 6 C'S OF OPEN SOURCE STRATEGY

COMMUNICATE

CONSUME

COMPLY

OPEN @
COMPANY

CREATE
COMPETENCY

CONTRIBUTE

COLLABORATE

Conclusions

- Open source software is here to stay
- So is open source as a method of creation
- Embrace it and not fear it
- Flash memory companies have much to gain by engaging with open source

Questions?

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Abstract

Abstract: Today, most of the leading edge innovation is taking place in Open Source. This innovative and collaborative development model is having a dramatic impact on enterprise, hyperscale and cloud-based applications and solutions.

Most software stacks are optimized for use with hard disk drives or tape, but more and more enterprises, cloud and hyperscale environments are transitioning off traditional HDD infrastructures for the increased reliability, performance and TCO benefits that come with flash-based storage solutions.

Thus the flash technology market needs to embrace the open source community and contribute to the knowledge-base and capabilities that will make flash more relevant for use with Open source in the cloud, hyperscale and enterprise data center markets. In this session, Nithya Ruff will outline how companies can build a culture of open source within their organizations in order to help vastly expand the number of flash-optimized open source applications and solutions that customers can use within their enterprise and hyperscale environments.

20-30 mins