Bimodal IT: Bridge Traditional and Agile IT

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Bimodal IT –
Challenges &
Opportunities

Two Worlds of IT Need a Bridge

Traditional IT
Mode 1

Agile IT
Mode 2

45% of organizations claim to have some form of bimodal capability today.

By 2017, 75% of IT organizations will have a bimodal capability.

*Predicts 2015: Bimodal IT Is a Critical Capability for CIOs: Gartner

The two brains of IT

Mode 1	Mode 2
Reliability	Agility
Waterfall, ITIL	Agile, DevOps
Conventional Projects	New & Uncertain Projects
Long-cycle Times (months)	Short Cycle (days, weeks)

Challenges in Context of Docker

Developers

Frequent releases vs. staged production schedule.

“It works on my machine.”

Operations

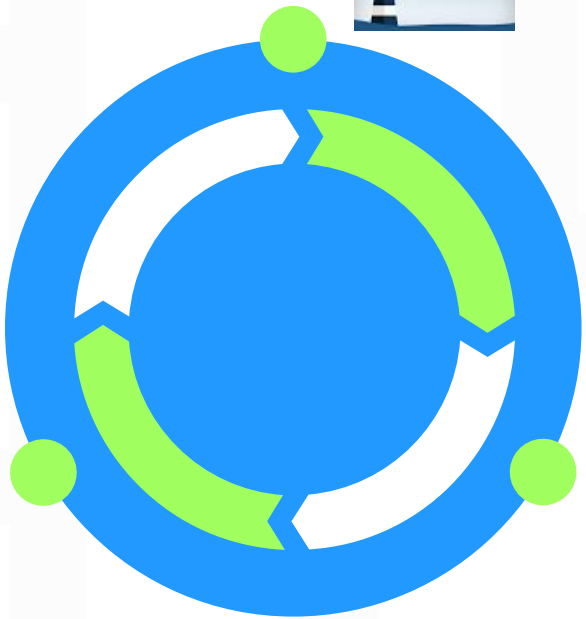
- Manage growing services
- Reliability and uptime of new applications
- Time to market
- Efficiency

Docker Lifecycle

Create

KIWI

Portus



Maintain

Zypper

Zypper Docker

Run

kubernetes by Google

openstack

JeOS

YaST

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Collaboration is Key

Create and Deploy Applications

One Team Creates Apps

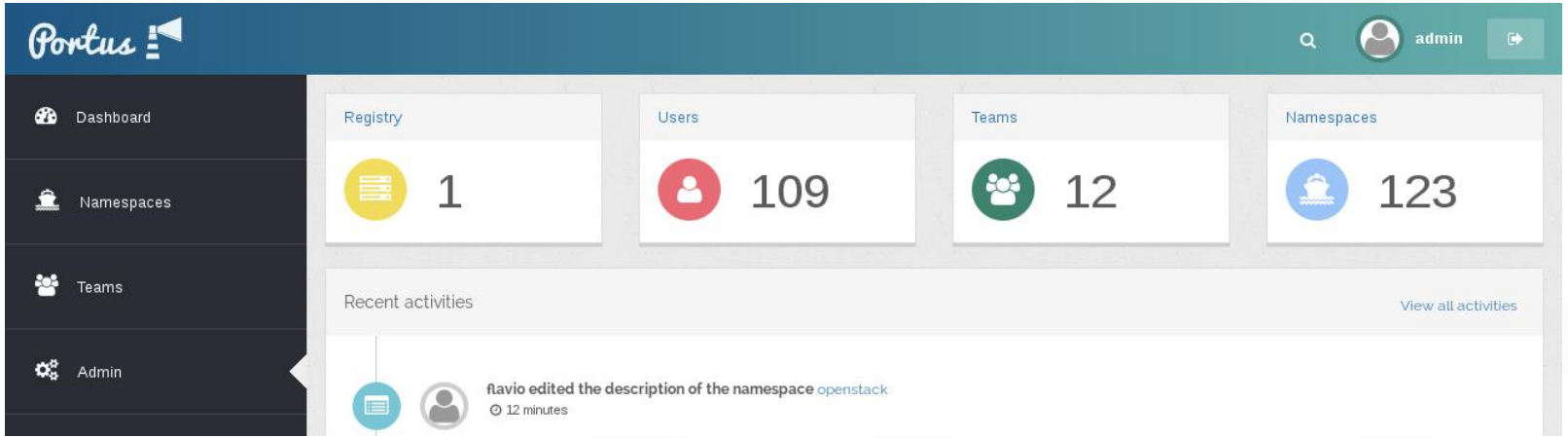
Audit

Authorize

Authenticate

Another Team Deploys

Collaborate Securely with Portus



Open Source

Created by SUSE

Authenticate Authorize

Control access to your images

Easy to Use

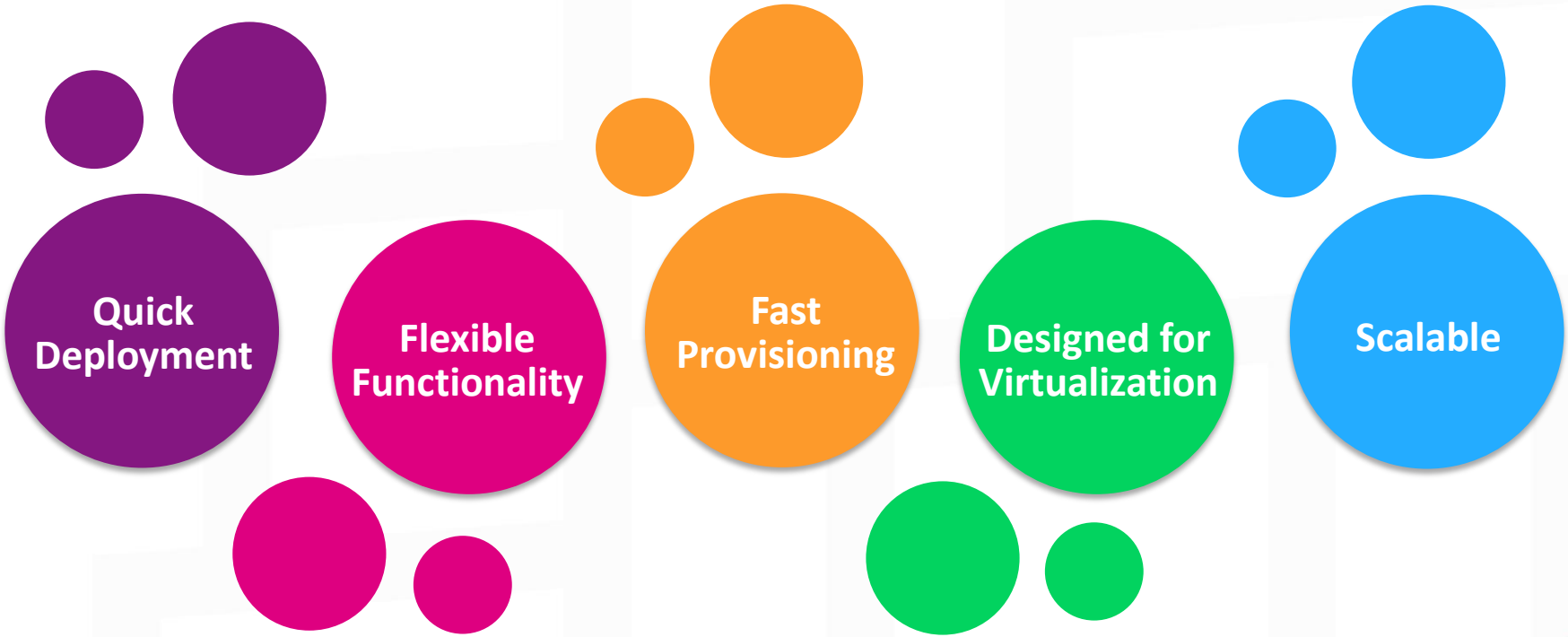
Navigate Image Catalog

Audit

Keep everything under control

Run with Agility

Containers Need Fast Agile Platform



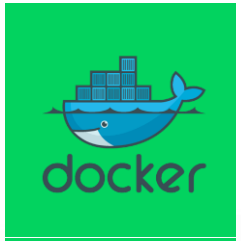
JeOS provides Agile Platform Ideal for Containers

small fast agile

Mini SUSE Linux Enterprise Server

JeOS

Mode 1



JeOS

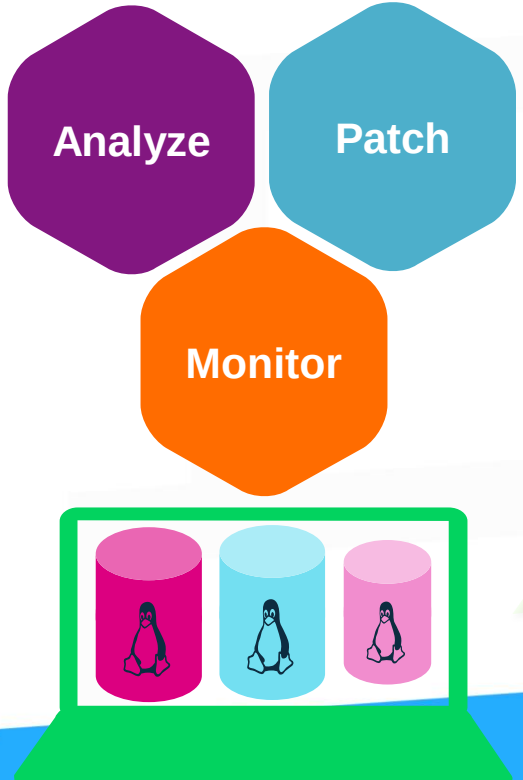
Mode 2

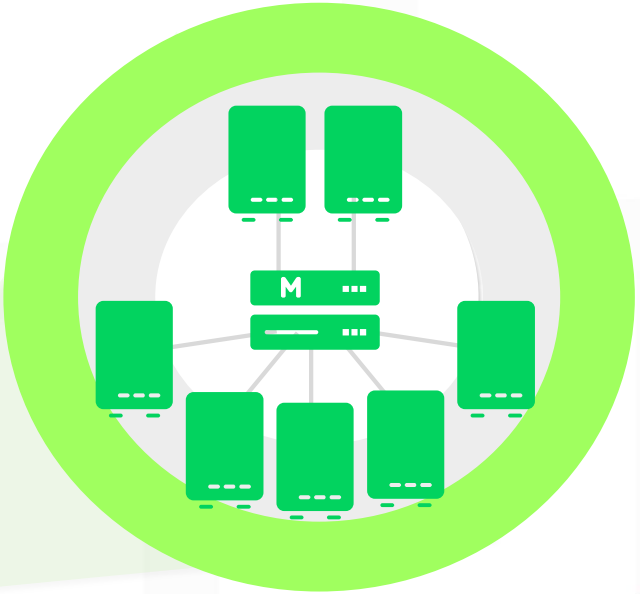
Ideal for Bimodal

Designed for the Future

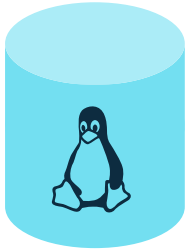
Keep Containerized Apps Secure

Manage Docker Images with YaST and Zypper-Docker





Surgically Patch Container Application



Check Containers & Images

Identify Vulnerable Apps

Update app

```
sles12sp1:~ # zypper docker list-patches --cve=CVE-2014-6271 stable_image:1
Issue | No.            | Patch               | Category | Status
------+----------------+---------------------+----------+-------
cve   | CVE-2014-6271  | slessp3-bash-9740   | security | needed
```

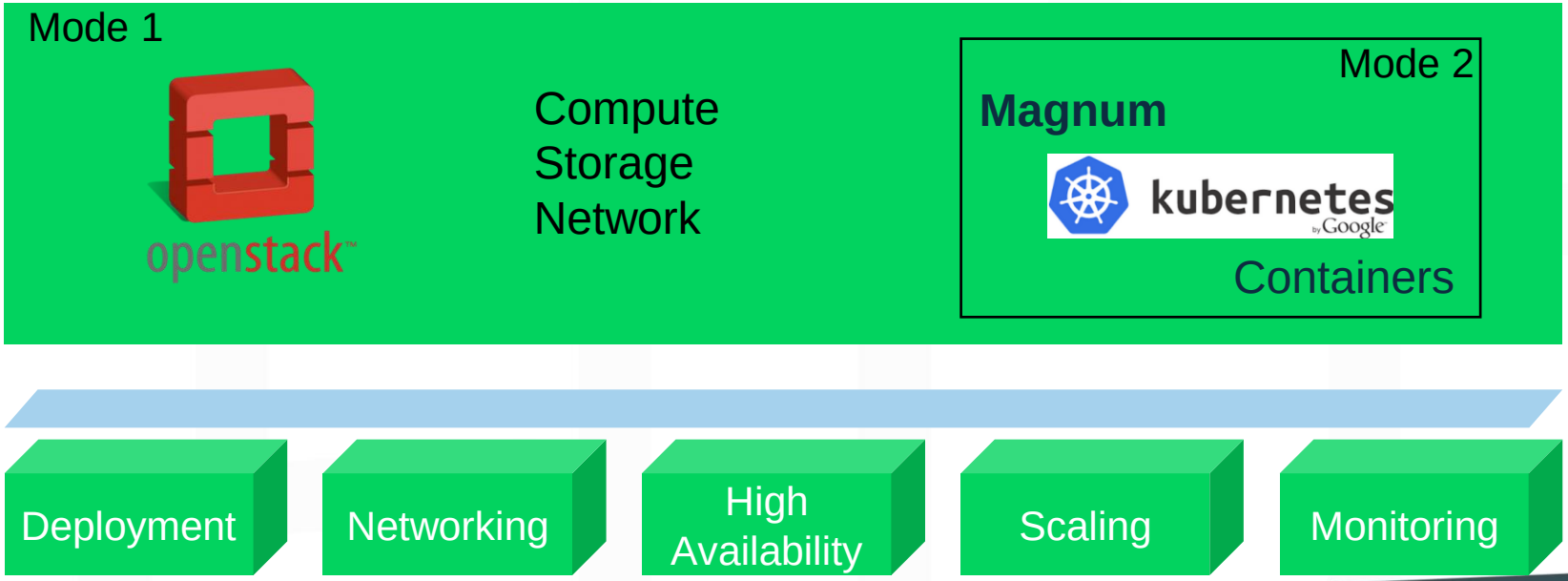
Shellshock vulnerability

Orchestrate Containers

Orchestration Enhances Business Value of Containers

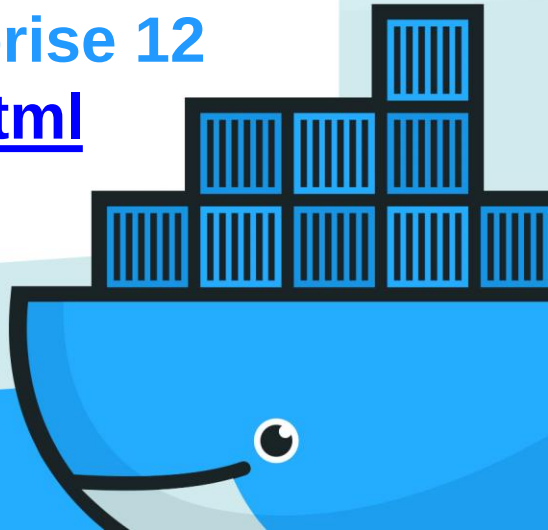
Containerized Micro-server	On-demand Self-services	Continuous Integration
Zero downtime, Highly available, Easy to migrate across hosts	Agile delivery, Continuous development	App Lifecycle Pipeline Dev, Test, Prod

Bimodal Datacenter



Checkout Docker mini-course videos
https://www.suse.com/promo/sle/docker.html

Learn more about SUSE Linux Enterprise 12
https://www.suse.com/promo/sle12.html



Thank you!

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