Accelerate Transformation with a Multimodal IT Infrastructure

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The World is Changing

By 2022, Global AI will derive $3.9T Business Value

Gartner

AI Deployments in Data Centers

2018: 4%
2022: 50%
By 2022, 90% of all new apps will feature microservices architectures.

35% of all production apps will be cloud-native.

IDC
By 2025, 70% of organizations not adopting a service/product orientation will be unable to support their business. Gartner

Digital Divide:
46% Digitally Determined
54% Digitally Distraught
IDC
IT Transformation Is A Big Multiyear Trend

Digital Transformation Spending
$7.5T in 5 years, CAGR 16.6%
IDC

Reaping Transformation Benefits
Digital Manufacturers  2.3% profit growth
Non-Digital Manufacturers -2.1% loss
2013-2017 CAGR, IDC
Requirements are changing
Variety of technologies in the mix
New operational models are in play
A co-existence of traditional infrastructure, software-defined infrastructure and application oriented architectures.
Mixed IT Infrastructure

**Servers** reside within traditional infrastructure

**Applications** run on software-defined infrastructure

**Traditional Infrastructure**
- SAP
- SQL
- Oracle

**Software-Defined Infrastructure**
- Container Applications
Move workloads across traditional and software-defined infrastructure
Mix of Deployment Scenarios

- Physical Servers
- OpenStack
- Cloud
- Public Cloud
- Container Applications
- Virtual Machines
- IoT Devices
- Edge
- Storage
- Traditional Infrastructure
- Software-Defined Infrastructure
- Edge
- IoT Devices
- OpenStack Cloud
- Container Applications
- Virtual Machines
Multimodal OS
Evolution of Multimodal OS

Past
- Monolithic

Modular
- Containers
- Web/Script
- Public Cloud
- SUSE Linux Enterprise Server
- Live Patch
- HA GEO
- Real Time

Future – Multimodal
- SAP System
- HA
- Unified Installer
- SAP Soln
- Server
- Dev System
- Live Patch
- Unified Installer
- Web/Script
- Server

SUSE CaaS Platform
- MicroOS
- SUSE CaaS
Multimodal IT needs

Bridges

Move workloads from on-premise to cloud

Leverage data center for container applications
Multimodal Architecture

SLE 15 Products

SDI Products

Services

Traditional Infrastructure

Software-Defined Infrastructure (SDI)

Common Code Base
All Architectures (x86-64, Arm, POWER, IBM Z)
## Multimodal OS Requirements

<table>
<thead>
<tr>
<th>Traditional Infrastructure</th>
<th>Software-defined Infrastructure</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multiple use cases</td>
<td>Single use case, multiple systems</td>
</tr>
<tr>
<td>Manual and automatic installation</td>
<td>Automatic and centralized installation</td>
</tr>
<tr>
<td>Variety of updates, upgrades, legacy</td>
<td>Always up-to-date</td>
</tr>
<tr>
<td>Variable packaging and installation</td>
<td>Fit one purpose</td>
</tr>
<tr>
<td>May become huge in size and management</td>
<td>Small as possible for size and management</td>
</tr>
</tbody>
</table>
Goodbye Stack

Hello Common Code Base and Modular+
Common Code Base

Benefits across 3 dimensions:
Hardware Architecture, Applications and Systems Management

“IDC believes the common code base of SLE 15 makes the product a multi-platform OS that is well suited for heterogenous computing environments.”
IDC Market Note, 2018
A product (e.g., SLE Server) is a set of Modules.

“Everything is a module”

SLE Desktop
- Desktop Productivity

SLE Server
- Server Apps
- Legacy

SLE High Availability

Pool of Modules
- Containers
- Public Cloud
- SAP Solution
- ....

Common Code Base Modules
- Base System
- Desktop Apps
- ....
**Unified Installer**

**Single starting point**
The Unified Installer installs all SUSE Linux Enterprise 15 products from a single medium.

**Easy to deploy**
The Unified Installer medium is small. It allows easier handling, remote use, and faster deployment cycle.
Developer’s Friend

Move to production faster from developer setups

Two options for a direct path to SUSE Linux Enterprise

Option 1
Community Linux openSUSE Leap → SLE 15

Option 2
Free Developer Subscription → SLE 15
Make traditional IT infrastructure more efficient

Minimize upfront planning and simplify decision making with Modular+ architecture

Easily transition to or leverage public cloud – Azure, AWS or Google Cloud Platform. Bring-your-own-subscription (BYOS) of SLE15.

Enhance security with disconnected offline installation

Simplify IT operations with the new Unified Installer
Simplify Multimodal IT

Bridge traditional and software-defined infrastructure

Improve application portability
Improve systems management
Bring simplicity to support and services
SUSE Linux Enterprise 15+ : The Future of OS
By Kai Dupke (Sr. Product Manager)

Wednesday, April 03, 03:15 PM - 04:15 PM | Fisk 2
Thursday, April 04, 04:30 PM - 05:30 PM | Fisk 1

Blogs: https://www.suse.com/c/tag/multimodal-os/

The Rise of Multimodal IT and What It Means To You

SUSE Introduces Multimodal OS to Bridge Traditional and Software-Defined Infrastructure

#MULTIMODALIT
Simplify Multimodal IT

Bridge traditional infrastructure and software-defined infrastructure.

Thank You