



# SUSE<sup>®</sup> Linux Enterprise Server for ARM

SUSE<sup>®</sup> Linux Enterprise Server for ARM, a new Linux server platform from SUSE, provides solution providers with the first generally available commercial enterprise-grade Linux distribution that is optimized for ARM AArch64 architecture servers.

## SUSE Linux Enterprise Server for ARM at a glance:

### ■ Exploit unique ARM processor capabilities on a well-established industry standard OS distribution...

with enterprise-class security and superior support

### ■ Improve time to market...

with advanced tools to compile, package and deploy high-performance Linux solutions for ARM AArch64 systems

### ■ Deliver innovative solutions...

with an OS foundation that supports a broad set of ARM AArch64 processors and storage, networking and high performance computing solutions

### ■ Products:

SUSE Linux Enterprise Server for ARM

## Leading the Way for Linux Solutions on ARM Servers

SUSE Linux Enterprise Server for ARM enables hardware and software solution providers and early adopters to deliver innovative solutions and improve time to market by exploiting ARM processor capabilities on a well-established open source, industry standard OS distribution with enterprise-class security and superior support.

Highlights of this release include the ability to:

- *Deliver innovative solutions with a rock solid OS foundation that is flexible to support advanced features of a broad set of 64 bit ARM AArch64 processors and open source community-based storage, networking and high performance computing (HPC) solutions.*
- *Improve time to market with an array of advanced tools to more quickly compile, package and deploy Linux solutions for ARM systems.*
- *Exploit ARM System-On-A-Chip features such as hardware-assisted compression, encryption and FPGA to simplify delivery of storage, high performance computing and networking solutions.*

- *Enhance security for workloads using the highest level of security for a commercial OS, enabling ARM ecosystem security mechanisms.*
- *Reduce problem resolution time with ready and available SUSE Standard or Priority services options for responsive support any time.*

## EXPLOIT ARM CAPABILITIES

SUSE Linux Enterprise Server for ARM enables solution providers to exploit unique ARM capabilities on a well-established open source, industry standard OS distribution with enterprise-class security and superior support. It uses a common code base with SUSE Linux Enterprise Server with support for ARM System-On-a-Chip specific features from several processor technology providers. SUSE has tested and supports the following ARM processors:

- *Advanced Micro Devices (AMD)—Opteron A1100*
- *Cavium—ThunderX, ThunderX2 CN99xx, Octeon TX*
- *HiSilicon—Hi1616*
- *NXP—QorIQ LS1043A / LS2085A / LS2045A, LS2080A / LS2040A*
- *MACOM / Applied Micro—X-Gene 1, X-Gene 2, X-Gene 3*
- *Marvell—Armada 7040/8040*
- *Rockchip—RK3399*
- *Qualcomm—Centriq 2400*
- *Xilinx—Zynq UltraScale+ MPSoC*

Please check with your specific hardware vendor. Due to the rapidly evolving availability of ARM System on a Chip hardware, not all platforms have undergone the same degree of hardware testing.

With SUSE Linux Enterprise Server for ARM, you can build in enhanced security for commercial workloads using the highest level of security for a commercial OS designed for Common Criteria EAL4+ support.

SUSE is the first Linux provider to make standard support offerings available for ARM AArch64 solution providers. During the development phase, you can reduce problem resolution time with ready and available SUSE Standard and Priority Support services. Learn more at: [www.suse.com/support/programs/subscriptions](http://www.suse.com/support/programs/subscriptions)

After the solution goes to market, you can extend the life of your ARM solutions and reduce risk with a thirteen-year lifecycle. SUSE Linux Enterprise Server for ARM shares a common code base and operating environment across all server platforms. This also reduces the learning curve for your developers who have experience with SUSE Linux Enterprise Server.

#### IMPROVE TIME TO MARKET

As a solution provider or technology early adopter you gain a business advantage by being first to market with innovative new solutions. SUSE provides an array of advanced tools to more quickly compile, package and deploy Linux solutions for ARM AArch64 systems. SUSE Linux Enterprise Server for ARM features the current GNU Compiler Collection (GCC) so that you can compile ARM performance-optimized applications with the Toolchain Module.

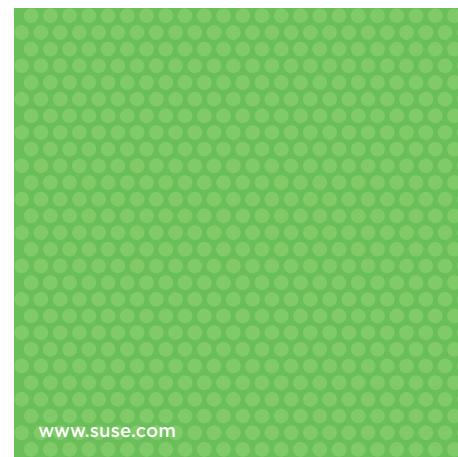
Open source HPC technology is evolving rapidly. The SUSE Linux Enterprise Server for ARM modular design enables you update functionality faster and easier with the HPC Module. This module is updated more frequently than the base operating system allowing you to keep up with and deliver HPC feature enhancements without changing the base OS. This enables you to meet time to market requirements for your solution while avoiding avoid extensive retesting of your platform.

#### DELIVER INNOVATIVE SOLUTIONS

SUSE Linux Enterprise Server for ARM delivers a rock solid OS foundation that is flexible to support advanced features of a broad set of ARM AArch64-based processors and open source community-based solutions.

Develop innovative large-scale HPC, storage and networking solutions with NUMA support for over 95 processor cores. Built-in Ceph client enablement provides a foundation for developing software-defined storage solutions. You can also leverage and contribute to open source innovation with community-sourced, SUSE-validated ARM-based packages built using Open Build Service (OBS) and additional software available from SUSE's Package Hub.

With SUSE Linux Enterprise Server for ARM you can reduce development and support costs of building, maintaining and supporting a private Linux distribution. With SUSE's mature and proven operating system you can dedicate your resources to delivering innovative solutions to your customers.



#### Contact your local SUSE Solutions Provider, or call SUSE at:

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