



# SUSE® Linux Enterprise Server for Arm

SUSE® Linux Enterprise Server for Arm, a new Linux server platform from SUSE, gives solution providers the first generally available commercial enterprise-grade Linux distribution that is optimized for servers and Internet of Things (IoT) devices based on a 64-bit Arm processors.

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

- **Exploit unique Arm processor capabilities on a well-established Industry standards 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 64-bit Arm systems
- **Deliver innovative solutions...**  
with an OS foundation that supports a broad set of Arm AArch64 processors and storage, networking and industrial automation solutions

## 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 include the ability to:

- *Deliver innovative solutions with a rock solid OS foundation that is flexible to support advance features of a broad set of 64-bit AArch64 processors and open source community-based storage, networking and industrial automation 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 FPGAsto simplify delivery of storage, networking industrial automation. 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 (SoC) specific features from several processor technology providers. SUSE has tested and supports the following Arm processors:

- *Advanced Micro Devices (AMD)—Opteron A1100*
- *Ampere Computing—X-Gene 1, X-Gene 2, eMAG*
- *Broadcom—BCM2835*
- *Huawei—Kunpeng 916, Kunpeng 920*
- *Marvell/Cavium—ThunderX, ThunderX2 CN99xx, Octeon TX, Armada 7040/8040*
- *Mellanox—Bluefield*
- *NXP—QorIQ LS2085A / LS2045A, LS2080A / LS2040A, LS1043A, LS1046A, LS1088A, LS2088A, LX2160A, I.MX 8M*
- *Rockchip—RK3399*
- *Qualcomm—Centriq 2400*

- Socionext—SynQuacer SC2A11
- Xilinx—Zynq UltraScale+ MPSoC

Note that the Broadcom BCM2835 is supported for both the Raspberry Pi 3 Model B Model B+ and Compute Module with SUSE Linux Enterprise Server for Arm 15. Prior releases only support the Model B. 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 64-bit Arm solution providers and early adopters of Arm systems. 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](http://www.suse.com/support).

You can reduce risk by developing long-life Arm solutions with a thirteen-year life-cycle for the supported operating system. 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 64-bit Arm 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.

#### **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 64-bit Arm processors and open source community-based solutions.

Develop innovative large-scale, storage and networking solutions with support up to 256 processor threads. Built-in Ceph client enablement provides a foundation for developing software-defined storage solutions. SUSE Linux Enterprise Server for Arm enables automated monitoring solutions with IoT devices including the Raspberry Pi 3 Model B, Model B+, and Compute Module. This makes it possible to add monitoring devices to legacy industrial equipment. You can also develop solutions that include crypto accelerators with supported adapters. 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 us at:  
[www.suse.com](http://www.suse.com)