openSUSE Leap 15: Built to Scale and Exceed Your Expectations

openSUSE Leap 15 is the most complete Linux distribution, making it ideal for community development as well as enterprise development and testing. Leap 15 is developed with a modern, secure, comprehensively tested and open source build system that is unique to SUSE and openSUSE. The community's efforts determine the path of the project, making Leap a very desirable distribution for open source developers. System administrators, developers, and independent software vendors can take full advantage of the hardened code base for the latest workloads that support modern hardware.

Products:
openSUSE Leap 15

openSUSE believes that the best results come from people collaborating during development and having fun in the process. Being different from other open source communities is just one of the reasons that openSUSE is so desirable. openSUSE is not a conventional open source community, because it's the community's efforts that determine the path of the project. Through these efforts, the community has created several important tools for Linux and, consequently, a popular Linux distribution. With openSUSE, you have a voice and you can easily contribute to the project.

Key Benefits

SIMPLE MIGRATION TO SUSE® LINUX ENTERPRISE

You can easily migrate from openSUSE Leap server installations to SUSE Linux Enterprise. This makes it easy for systems integrators to develop on Leap code and later move to an enterprise version for SLAs, certification or mass deployment. On the same developer setups, you can seamlessly transition from openSUSE Leap 15 to SUSE Linux Enterprise 15. As a result, you can accelerate the transition from developer setups to production deployments.

BRIDGE TRADITIONAL AND SOFTWARE-DEFINED INFRASTRUCTURE

You can use openSUSE Leap as a traditional server as well as in a software-defined environment. As an example, Leap 15 has a system role selection that offers a classic server role and a transactional server role. Contributed by openSUSE's container platform project Kubic, this role uses transactional updates and a read-only root filesystem to provide Leap with all the benefits of atomic updates in a multitude of use cases, including container hosts, Internet of Things (IoT) and classic server functions. So, one team in a company could use openSUSE Leap for classic server use and the other team could use for containers. The two teams could easily share workloads across the two systems. This is just one example of bridging across traditional and software-defined infrastructure.

EASY TO USE IN VIRTUAL MACHINE (VM) AND CONTAINER ENVIRONMENTS

openSUSE Leap is ideal for use as a virtual machine or container guest, enabling experienced users to efficiently run network services, whether it's a single server or a data center.

CLOUD PROVIDER AGNOSTIC

Use a cloud provider that suits your needs. openSUSE Leap is available through various cloud providers, including Linode, Amazon Web Services, Google Cloud Platform, Microsoft Azure, Rackspace and more.

VERY WELL MAINTAINED

Service Pack updates are provided annually, so you can stay current with new features and fixes on a regular basis. Many of the updates are based on SUSE Linux Enterprise. The maintenance and security updates for the Leap 15 series are expected to last for at least three years.

BUILD WITH THE BEST OPEN SOURCE TOOLS

Open source tools such as Open Build Service and openQA, along with the distribution alignment between Leap and SUSE Linux Enterprise, make it easy for developers to contribute to Leap and further drive technological innovations and open source solutions. You can easily create reproducible builds across architectures and Linux distributions using Open Build Service technology.

## USE THE DEVELEOPMENT ENVIRONMENT OF YOUR CHOICE

Leap provides several options for development environments. GNOME users will find it advantageous that the GNOME version of Leap is the same as in SUSE Linux Enterprise, making it easy to develop applications for SUSE Linux Enterprise. An alternative choice is the full featured Qt based KDE desktop environment, which is identical to the one offered via Package Hub for SUSE Linux Enterprise. In addition, several lightweight options such as XFCE and openbox are also available.

TAP INTO A LARGE OPEN SOURCE COMMUNITY

Leap has about 10,000 open source packages, originating from both the community and SUSE Linux Enterprise. Users of SUSE Linux Enterprise can also benefit from many of the community packages via SUSE Package Hub.

REDUCE BARRIER TO ENTRY IN IOT AND EMBEDDED MARKETS

Take full advantage of the low power consumption of ARM devices with openSUSE Leap 15. Whether it is servers, Pi clustering or just wanting to innovate with ARM devices, openSUSE Leap 15 has several different images available—for Raspberry Pi devices, Beagle Boards, Arndale boards, CuBox-i computers, OLinuXino and more. The barrier to entry in the IoT and embedded markets are lowered when a developer starts a project with Leap 15.
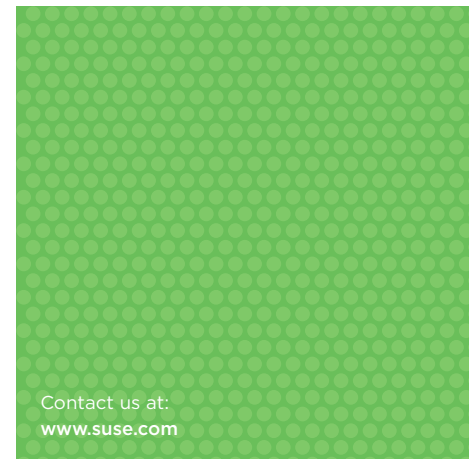
TAKE ADVANTAGE OF CATALYST "TUMBLEWEED" AND INFLUENCE FUTURE SUSE RELEASES

The Tumbleweed distribution is a pure rolling release version of openSUSE containing the latest stable versions of all software instead of relying on rigid periodic release cycles. The project does this for users that want the newest stable software.

Tumbleweed provides the base from which both Leap and SUSE Linux Enterprise are stabilized and polished; therefore, using and contributing to Tumbleweed makes it easy to contribute to Leap and SUSE Linux Enterprise. openSUSE provides the tools, processes and resource channels to help people, projects and businesses contribute to the development model. Use the Open Build Service and the automated testing tool openQA to build and test packages. Communicate with the community and submit packages to openSUSE Factory and Tumbleweed. Your involvement and the symbiotic relationships across Tumbleweed, Leap and SUSE Linux Enterprise are the catalyst that will impact future openSUSE and SUSE releases.

AUTOMATE WITH ENHANCED YAST® INSTALLER

Improve resiliency and automate processes right from the installer stage, using auto update of code with the powerful administration tool YaST (Yet another Setup Tool). YaST gives you the capability to customize your system quickly during and after the installation.

For additional information, visit: **https://en.opensuse.org/Portal:15.0**

Figure 1.