Ubuntu Server on HP ProLiant Servers

An ideal solution for your cloud and scale-out workloads

May 2014

HP and Canonical, the company behind the Ubuntu open source operating system, deliver an ideal, high-performance, cost-effective server platform for the most demanding Web, cloud, and scale-out computing workloads. With Ubuntu Server software on industry-leading HP ProLiant servers, you can deploy services faster and more flexibly than ever before.

Ubuntu Server has quickly become the platform of choice to service web, scale and cloud workloads. There are several key reasons for this preference. OpenStack, the open source Infrastructure as a Service platform (IAAS), is fully integrated into Ubuntu Server. Ubuntu is free for customers to use and share. And HP offers flexible support options for Ubuntu software when running on certified HP ProLiant Servers.

Insight
HP fully supports Ubuntu Server on certified HP ProLiant Servers

Insight
Ubuntu software is free—no licensing or subscription costs

Insight
Ubuntu is the reference operating system for the OpenStack project, making it the easiest way to build an OpenStack cloud

Look to Ubuntu and HP—the natural choice for web, cloud and scale-out computing

For organizations moving to the cloud, Ubuntu Server on HP ProLiant Servers offers a proven, cost-effective solution that's fully supported by HP.

While Ubuntu Server is ideal for modern compute workloads, businesses also recognize its inherent value, especially with its regular release cycles and cost effective licensing. The software is free—there are no license fees or subscription costs—and you can count on accessible, regular releases every six months. The release schedules of the two projects are synchronized, ensuring that OpenStack updates and releases are immediately available on widely deployed releases of Ubuntu. In addition to the cost advantages, Ubuntu offers added flexibility and control. You can tailor the solution to your environment and, with HP, get as much support per server as you need.

Ubuntu Server is certified on a range of HP ProLiant servers. Together they offer an excellent value—combining a best-in-class hardware experience with the next-generation web-enabled cloud-based operating system. Even better, the solution is completely supported, maintained, and provided by HP. You can receive expert advice, easy one-stop purchasing, one-call technical support, and expertise to guide your computing environment forward. It's everything you need to enable a world-class computing environment for your business-critical workloads—at a price that works for your budget.

Make one call—to HP—for hardware and OS support

HP provides a range of support offerings for HP ProLiant Servers running Ubuntu software, giving you the highest level of confidence in your deployment.

We've teamed with Canonical to deliver Ubuntu Server solutions that combine the value and flexibility of open source and HP management applications, services, communication tools, and hardware support. HP Technology Services are designed to be personalized, proactive, and simplified.

As part of **HP Foundation Care**, we provide the following choices:

• Software support and updates - HP software support services for Ubuntu Server provide fast, reliable access to HP resources through one of our customer support centers. Our technical resources work with you to provide advice on software features and functions, problem diagnosis and resolution, software bug identification, and a defined escalation path with Canonical. You will have access to Canonical's regularly planned software updates. Coverage is available 24x7 or support that covers the business day, 9-5 Monday through Friday.

HP Datacenter Care is an environmental support solution, designed to address support needs across your infrastructure. HP Datacenter Care is an excellent choice for scale-out customers because it allows you to customize your support experience by combining expert reactive phone support with your choice of reactive hardware support and environment level services.

Look to Ubuntu and HP—the natural choice for cloud and scale-out computing

• Choose from a broad range of certified ProLiant servers, including BL, DL, ML and SL models.

• Ubuntu is wide in use today on public clouds, including HP Cloud and other commercial cloud services.

• Ubuntu Server is the reference operating system and a popular foundation for OpenStack cloud computing.

• You can scale out easily at low cost, paying only for support per server, incurring no licensing fees.

Customize your IT lifecycle management, from acquisition of new IT, management of existing assets, and removal of unneeded equipment. hp.com/go/hpfinancialservices

HP Factory Express provides customization and deployment services along with your storage and server purchases. You can customize hardware to your exact specifications in the factory—helping speed deployment. hp.com/go/factoryexpress

Gain the skills you need with ExpertOne training and certification from HP. With HP ProLiant training, you will accelerate your technology transition, improve operational performance, and get the best return on your HP investment. Our training is available when and where you need it, through flexible delivery options and a global training capability. hp.com/learn/proliant

Follow us on Twitter @hplinux

Technical specifications

Ubuntu Server 12.04 LTS (and later):
• Maximum CPUs (i.e. cores) supported by default:
  – Server 32-bit: 8 cores/CPUs
  – Server 64-bit: 256 cores/CPUs (but LiveCD supports 64 by default)

• Maximum Memory
  – Ubuntu 32 Bit - 4 GB RAM
  – Ubuntu 32 Bit + PAE (Physical Address Extension) - 64 GB RAM
  – Ubuntu 64 Bit - 1024 GB RAM

• File System and Storage limits
  – Maximum file size (Ext4/Ext3) - 16 TB/2 TB
  – Maximum file system size (Ext4/Ext3) - 16 TB
  – Maximum x86 per process virtual address space - Approx 3 GB
  – Maximum x86_64 per process virtual address space - 128 TB

• Virtualization limits
  – Maximum number of cores in host - 160/4096
  – Maximum memory in host - 2 TB/64 TB
  – Maximum number of virtual CPUs in fully virtualized guest – 64
  – Minimum memory in fully virtualized guest (x86 and x86_64) – 512 MB
    • Required minimums
    • x86 - 512 MB minimum/1 GB/logical CPU recommended
    • x86_64 - 1 GB minimum/1 GB/logical CPU recommended

• Kernel and OS Features
  – Kernel foundation: 3.2.0/3.5.0
  – Compiler/Toolchain: GCC 4.6.3
  – Languages supported: 27

For a list of the latest ProLiant servers that are certified and supported can be found on HP's Ubuntu Certification and Support Matrix.

Learn more at
hp.com/go/ubuntu

Sign up for updates
hp.com/go/getupdated

Share with colleagues   Rate this document