



## Ubuntu Server Edition 8.04 LTS

### A rock solid opportunity for your business

Ubuntu Server Edition is changing the server market for businesses by delivering the best of free software on a stable, fully supported and secure platform. Ubuntu can now be found in hundreds of businesses across the world delivering key services reliably, predictably and economically.

Ubuntu Server Edition is becoming the backbone of many of the services that a typical business needs to run. With no license fees, an expanding ecosystem, minimal maintenance and a growing community of peers and references, Ubuntu Server Edition is making many businesses reconsider how they use Linux in their organisations.

Ubuntu users can enjoy outstanding performance, security and reliability:

- easily integrates into your existing networks
- provides a low total cost of ownership
- offers multiple life cycle scenarios for you to choose
- delivers free lifelong maintenance
- is backed by our world class support

### Packed with features

Ubuntu Server Edition is loaded with features to simplify, optimise and secure your servers. The standard services listed over the page can be set-up during installation, meaning you can be up and running in minutes. These services require limited maintenance so once you've set it, you can forget it. Additionally, there are hundreds of other services and applications you can install to cover every server requirement your business has.

“ We replaced the proprietary Unix technology. The PC servers running Ubuntu cost a fraction of the old hardware cost.”

Ken Simon,  
Oakland University

Feature	Ubuntu Server Edition
Kernel	Uses a specifically tuned kernel to optimise your hardware and to handle all the most common server workloads. Also tuned specifically for virtualization where Ubuntu operates as an excellent hypervisor.
Mail server	Has all the features needed to provide e-mail services, whether acting as a connector to the Internet with Postfix, or as a central storage for users to access their e-mail with Dovecot. It also supports a range of content checkers to keep your organisation spam and virus free.
File and print server	Makes sharing files across multiple systems with Samba easy. CUPS shares printers across networks and minimises printer recognition issues.
Web application server	Serves dynamic web pages using your favourite tools including PHP, Perl, Python, Apache, MySQL or PostgreSQL with more options supported by vendors and the community, such as Java and Ruby.
Security	Offers great security for your business with it's easy to administer, but fine-grained security procedures. From kernel hardening to access control and years of free updates, Ubuntu Server will ace any security audit.
Authentication integration	Integrates easily with Windows, MacOSX, Unix and Linux. Also comes with Likewise Open and LDAP connectors to easily integrate with your current user management system, allowing your clients to seamlessly authenticate.
Automated deployment	Includes network & CD deployment, unattended installation, controlled installation, pre and post installation scripting, easy configuration GUI, automated updates and Landscape (Ubuntu systems management) integration.
Ubuntu Server Edition JeOS	Allows you to build virtual appliances. Configured to be as low footprint as possible, it allows you to run more appliances per server to maximise system usage.
Network infrastructure	Provides a range of network infrastructure services, including DNS with Bind 9, DHCP for easy network configuration and VPN's with OpenVPN. Additionally, includes FreeRadius, monitoring through Nagios or Munin and backup solutions with Bacula or BackupPC.

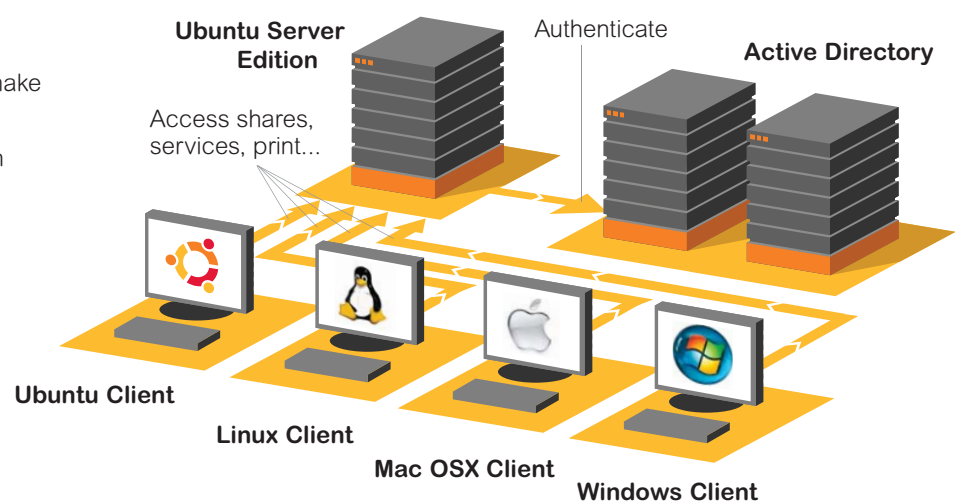
## The benefits of switching to Ubuntu Server Edition

Ubuntu Server Edition is different. We make the same version available to everyone and we provide updates for the duration of its life cycle. We also focus on building it in a way that benefits real world administrators so that they can succeed in running the IT backbone of businesses.

### Services are simple to deploy

Ubuntu adds ease of use and efficiency, with a typical deployment taking just minutes for a fully secured and configured deployment of standard services. Today there is an array of vital services that can be deployed

Figure 1 – Seamless authentication integration



in this was including mail, web, DNS, file serving or database management. LAMP (Linux, Apache, MySQL and PHP) is also available at set-up.

This simplicity is because Ubuntu Server Edition takes a different approach to how it delivers packages. The basic

configuration and integration work is done before installation so that the user only needs to select which option they want.

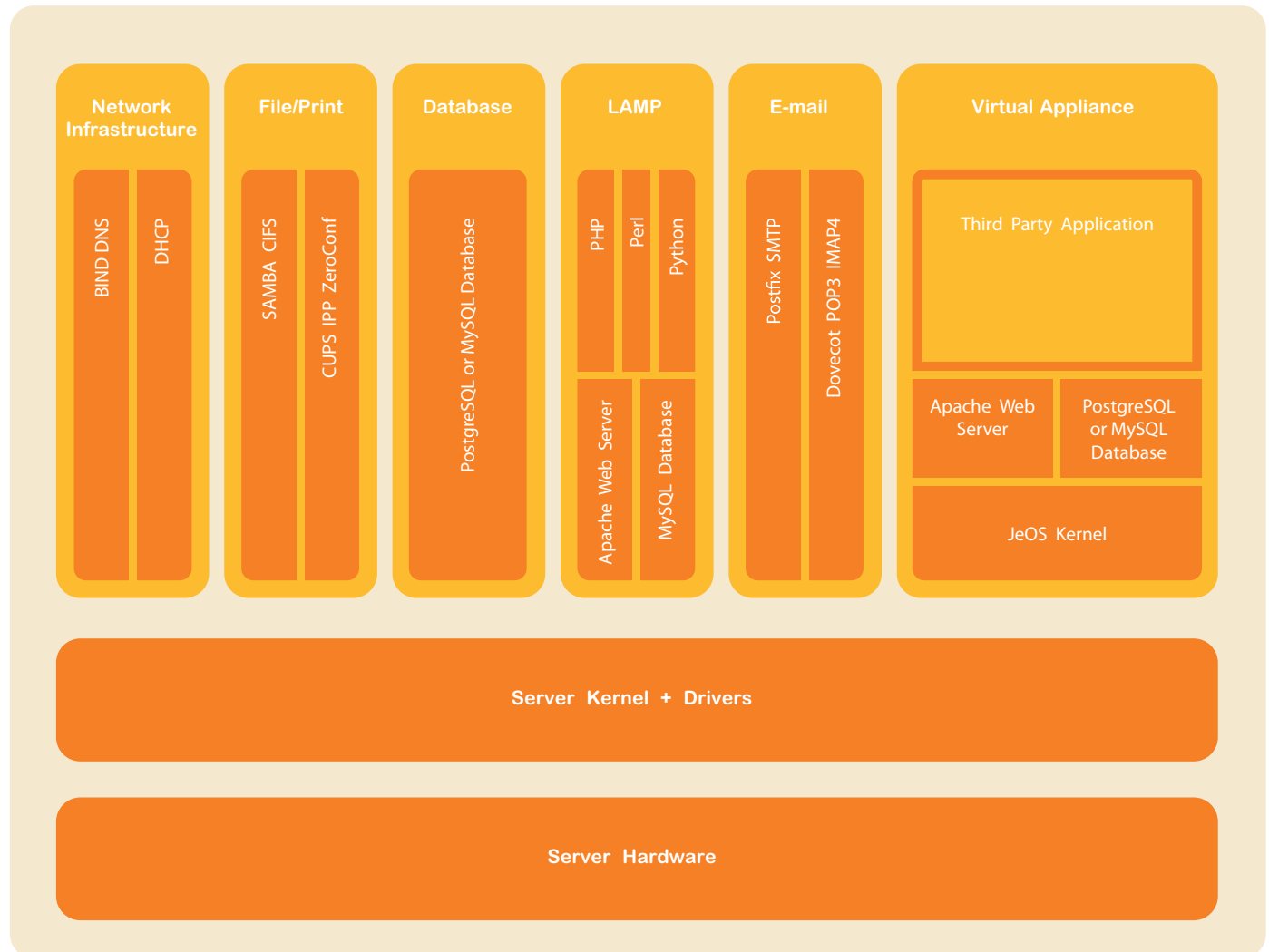


Figure 2 – A sample server configuration that can be set-up easily with Ubuntu Server Edition

## Packages are straight forward to deploy and manage

We recognise that the administration and upgrade costs are another significant part of IT business spending. Therefore, we've made our server as easy to maintain as possible, which means that you can set it up and then forget about it.

- **The Debian packaging system** handles package files and configuration, allows for tight integration of different packages, permits updates of running services and provides excellent dependency control.
- **APT (Advanced Packaging Tool) management system** allows you to get fast and reliable automated update mechanisms that you can control fully, and it covers not only the operating system but all of the open source packages that you install on top of it. Administrators can easily learn how to package any program and publish them in a

private repository, so they manage the system as one unique component.

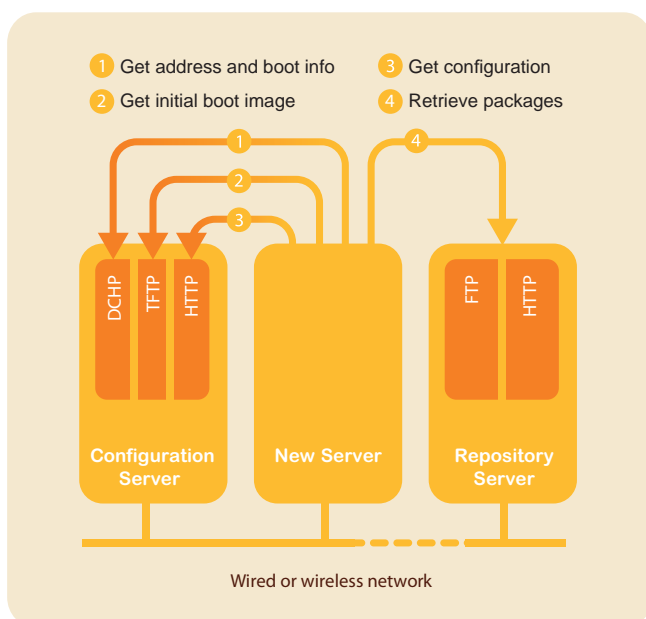
- **Third party software** packages that are added from the partner repository get updated at the same time.
- **Automated deployments** save you time. Deploying new systems is time consuming and a repetitive process that can be fully automated to easily provision a new server in the most complex setups. The flexibility of the Debian installer allows fast network deployments or creation of custom CDs, including any special configuration that may be required.

## Lower your cost of ownership

Ubuntu Server Edition is free, and always will be. There is no 'for pay' edition that contains extras. We know that license fees are only the starting point in making a TCO argument in your business, therefore, consider the merits of Ubuntu Server Edition:

- ✓ **Easy to manage** – installation, startup, shutdown, service initialisation and package management.
- ✓ **Built for purpose** – no bloatware and no extraneous applications clogging up what you really want to do—run the services that run your business.
- ✓ **The platform for open and free computing** – take advantage of the fantastic array of open source server applications to increase the savings for your organisation.
- ✓ **Simple to upgrade** – get the latest and greatest upgrades every 6 months or stay for the longer term on a single platform in the knowledge that we will ease the upgrade path. It's long term confidence.
- ✓ **Simple to update** – Debian packaging and APT are recognised as the easiest, smoothest methods of introducing software to your server stack. They are pre-configured to ensure a smooth introduction.
- ✓ **The ideal 'green' solution** – whether it is virtualization maximising your server efficiency or simply running lean services across your network, Ubuntu is a great partner in the drive to improve efficiency.
- ✓ **Security** – the greatest risks to your business are eliminated. Continuous updates respond to the changing landscape of risk on an already hard to hack distribution.

Figure 3 – Automated deployment



## Predictable life cycle and maintenance policy

Our product life cycle ensures that you can perform upgrades of your systems, in place, time after time, at the pace you choose, without compromising the work you have put in setting them up.

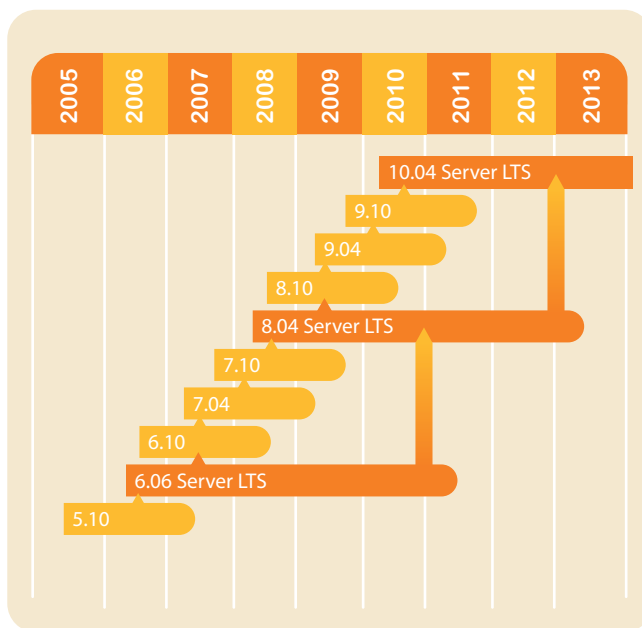
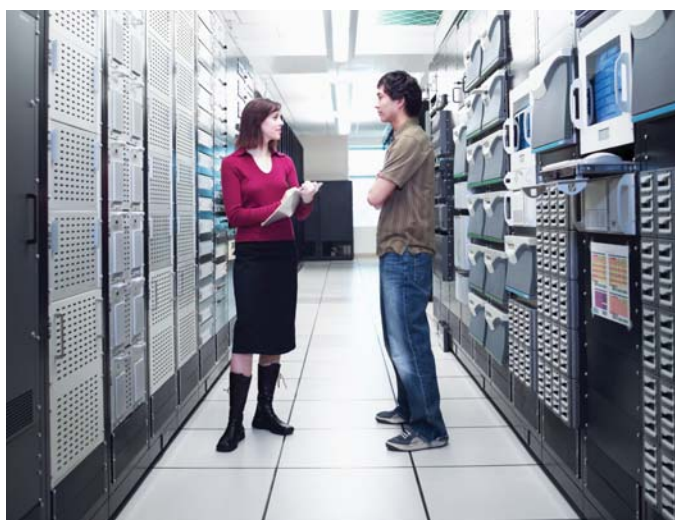


Figure 4 – Upgrade path

## Ubuntu Server Edition has a dual release cycle

- Every 6 months a version is released that contains the latest packages and updates. This is maintained for 18 months from release with an upgrade path to the next 6 month release version.
- For greater robustness and easier planning, every 2 years a Long Term Support (LTS) version is released that is maintained for 5 years. This is a target platform for ISVs looking to build solutions on Ubuntu and also for larger deployments in need of a more stable release.



“ Ubuntu’s fine-grained package structure makes it an excellent choice for VMware virtualization. VMware and Canonical have worked to optimise Ubuntu 8.04 LTS for customers running VMware virtualization in data centres and on desktops, and Ubuntu’s Server JeOS is a compelling platform for ISVs building virtual appliances. ”

Dan Chu,  
Vice President of Emerging  
Products and Markets, VMware

## Virtualization

Ubuntu Server Edition offers a variety of virtualization technologies for use as a host or guest operating system. There are open source and proprietary solutions to meet every need. KVM (Kernel Virtual Machine) is our open source virtualization solution, it’s efficient and comes with a suite of management tools. Additionally, we have established premier relationships with VMware and Parallels to offer a range of options to meet every requirement.

## Storage Area Network

Ubuntu Server Edition brings the power of inexpensive shared storage to your servers. More and more organisations rely on the throughput of Gigabit Ethernet to build up their SAN (Storage Area Network) for data or virtual machine storage. Using relatively inexpensive hardware, the performance can be quite amazing.

Two key storage technologies feature in Ubuntu Server Edition: iSCSI and DRBD. They enable administrators to attach network storage to a server. These low level protocols can be used in conjunction with a variety of file systems and high availability capabilities to set-up scalable and robust server configurations.

## Processor technologies

Ubuntu Server Edition is optimised for 32 or 64-bit multi-core processors. The Kernel team is working closely with Intel and AMD to implement the latest features the processors allow, and integrate the latest drivers the

chipsets permit. This includes AMD’s V, Cool & Quiet and Hypertransport as well as Intel’s VT, IOAT and EIST.

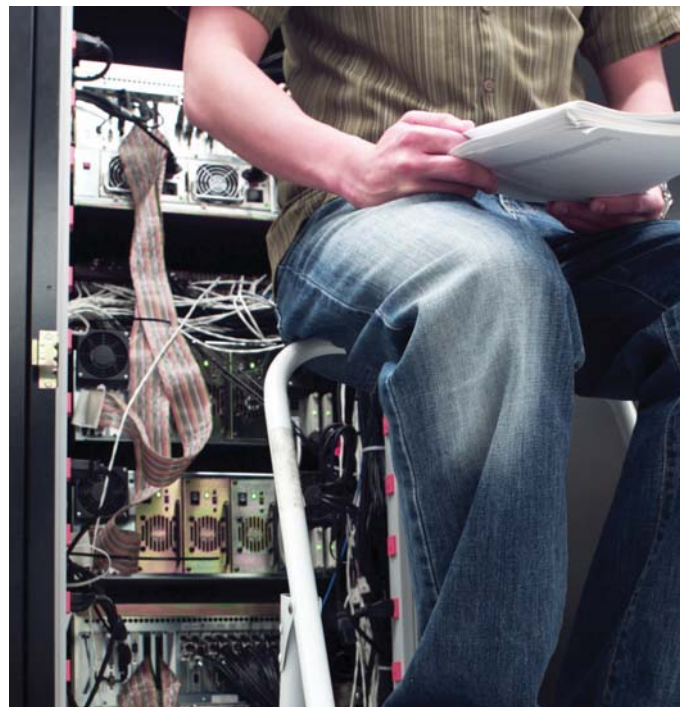
## World class support from Canonical

Every business depends on their technology which is why you need Canonical’s professional support services behind you. Our focus is on providing exceptional support so that customers can deploy and manage their Ubuntu systems with confidence. Our support team has the knowledge and expertise to assist with the most difficult deployment and configuration problems.

Solving problems quickly and effectively is critical for effective IT management. As a support subscriber you will have immediate access to an expert who can answer your questions or help if something goes wrong. From simple configuration problems, to the resolving of mission critical bugs we’re there whenever you need us. For more information visit [www.canonical.com/services/support](http://www.canonical.com/services/support)

## Canonical Landscape: System Management for Ubuntu

Deploying applications and security updates to multiple machines is a critical component in effective systems management. Landscape makes Ubuntu systems management simple, enabling you to manage multiple Ubuntu machines through a single web interface. Simply register a machine in Landscape and you can immediately start managing application, system and user resources.





## Technical specifications

### Ubuntu Server Edition 8.04 LTS

Ubuntu Server Edition will run on Intel x86 based systems (including Intel Pentium, Intel Xeon and AMD Athlon) plus AMD64 and Intel64 based systems (including AMD

Opteron and Intel EM64T Xeon). It requires a minimum of 256Mb of RAM.

The following is a selection of the common packages that are fully maintained in Ubuntu Server Edition.

Kernel	Web	Database
2.6.24	Apache 2	MySQL 5
KVM		PostgreSQL 8
E-mail	Networking	Package management
Dovecot	LTSP 5	Aptitude
Postfix 2.4	Samba 3	APT
Exim 4	OpenDAP 2.4	Dpkg
amavis-new	FreeRadius	
Languages	Security	Clustering
PHP 5.2.4	AppArmor	Ocfs 2
Perl 5.8	iptables	Lvm 2
Python 2.5	Uncomplicated Firewall	Gfs 2
C, C++	OpenVPN	DRBD 8
Ruby	Open SSH	open-iscsi



“ Sun is committed to providing customers a choice of operating systems on our x64 servers. Sun has worked closely with Canonical since early 2006 and we continue to see growing interest in Ubuntu on Sun platforms. ”

Lisa Sieker,  
Vice President of Systems Marketing, Sun Microsystems

For more information, please visit [www.ubuntu.com/server](http://www.ubuntu.com/server)

