



# **Open Source Consultants**

## **Business Profile**

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# **1 Vision and Mission**

## ***1.1 Vision***

At Copyleft, the goal is to eliminate common problems surrounding today's software. We envision a world where software doesn't crash regularly, where it is usable by everyone, where it is affordable and accessible by everyone.

We believe that Linux can solve these problems effectively because of its open nature and the excellent security model that it is built upon.

## ***1.2 Mission Statement***

Through our commitment to open source, we aim to create healthy competition among software and hardware vendors that encourages innovation and enables consumers to cost effectively deploy and manage new technologies.

By promoting the use of Linux and open source at the educational level, we can help broaden young minds and provide a viable alternative to closed products for their development.

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## **2 Introducing Copyleft solutions**

Copyleft solutions is proud to present its services for organizations and individuals that demand a high level of quality. Our aim is to offer reliable and secure solutions by using the Linux operating system and open source software (OSS).

### ***2.1 The open source revolution***

The information sector has seen major changes in its brief history. First, the introduction of low-cost personal computers brought the power of mainframes to the masses. Then during the 90s, the Internet revolution changed the lives of millions of people around the globe by allowing them to share data easily and in unprecedented ways.

With the maturing of open source software and its growing acceptance, we now have the freedom to choose between expensive, proprietary software and free, secure and open solutions. The open source Apache software now has the lion's share of the web server market, while other such projects such as Open Office and the Mozilla foundation are gaining ground fast.

### ***2.2 How we can help***

By switching to open source software, you not only save on licensing costs, but also get a solution that is reliable and reduces maintenance overheads significantly.

The concept of open source is based on free and open standards. Standards on which the Internet and most of today's technology was built. Many governments, corporations and other institutions with vision have realized this and are actively pursuing to unfold the potential of OSS.

At Copyleft solutions, our qualified and experienced personnel are ready to make this transition to OSS as pleasant as possible for our customers. Our efforts are focused on providing quality services at low costs so that you can concentrate on what you do best while we take care of the rest.

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## **3 Details of Services**

We provide the following services, all closely related to the Linux operating system and supporting open source software:

### ***3.1 Operating System Installation***

Linux and open source software can be heavily customized allowing you to efficiently utilize available resources. By pruning away extra services and applications, you also minimize the risk they may pose in case a vulnerability is discovered in any one of them.

Our specialized engineers can help you achieve this during and after the install process. Furthermore, we can recompile packages optimized to only include what is necessary.

### ***3.2 Security***

After the installation of any operating system, the most crucial part left to do is securing it against malicious attacks. Any running software needs to be hardened against crackers, viruses and Trojans that may compromise important data or use your system to launch more attacks.

By updating to the latest packages and properly securing all software, we can eliminate virtually all such threats. Security is commonly compromised through the use of plain text protocols, such as email and telnet, to transfer sensitive data which can be easily intercepted by anyone. We use encryption and other advanced techniques to make sure there is no such leakage.

### ***3.3 Network Design***

There is a need for large networks to be designed to accommodate future expansion plans, perform well and provide high availability against various types of failures. Our network design engineers can work with you to achieve these goals.

### ***3.4 Migrating to Open Source***

Shifting from a previous setup to something more secure and stable, yet completely different can be a daunting task, though the rewards are high. Although this process has become much simpler recently, it still requires careful planning and preparation which we are well versed with.

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### ***3.5 Proxy Servers***

With net traffic growing exponentially, especially in developing regions such as South Asia, there is a great need to allow all users to share bandwidth and Internet address space. This can be achieved quite effectively by setting up web and ftp proxies which utilize methods such as caching and bandwidth allocation.

### ***3.6 Firewalls***

Firewalls are necessary not only to keep intruders out, but also to ensure that internal security policies are followed. Logging techniques can allow administrators to know if anything out of the ordinary happens. The Open Source world has produced some excellent software which can do all of this and more.

### ***3.7 Web and Mail Services***

Among the most commonly used services are those related to web and email. Email is an essential part of our daily lives and must remain available all the time. We can do this using techniques that optimize throughput and open source software that stays running even under heavy loads.

Mailing lists and newsgroup are also an effective way to share information between a large number of users, though require more technical expertise than simple email.

Just as important as email are web services. Web interfaces are increasingly being used as front-ends for all kinds of applications though are often the target for crackers. Using tried and tested software such as Apache, we can ensure maximum uptime and unbeatable performance.

### ***3.8 Monitoring Services***

Once servers and workstations are setup it is advisable to have a method for knowing such things as the resource usage on a system or how much network traffic there is. Our advanced monitoring systems can also alert you in case of serious hardware failures or service disruptions. In addition, we use various methods to detect intrusion attempts and verify system integrity.

### ***3.9 Regular Updates***

Vulnerabilities in software are a constant threat that can only be averted through regular and timely updates. Even today's most secure systems may be compromised through a future security hole or bug.

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Our update system can handle these very well and minimize any downtime required during this phase. It is also highly scalable so a large number of machines can be updated by a single host within a short period of time.

### ***3.10 Remote Administration***

By using secure and powerful, yet light-weight protocols such as SSH (Secure Shell), we can administer your systems anywhere around the globe without losing precious time.

### ***3.11 Databases***

Open source databases, such as MySQL and PostgreSQL have come a long way and now offer the speed and advanced features of more established ones. Many high profile servers have recently made the move to these, including New Zealand's top level domain registry.

Commercial vendors such as Oracle and Sybase also offer versions for Linux that usually outperform those for other platforms.

Our extensive experience in installing, optimizing and maintaining the above can help you cut down costs and maintenance overhead.

### ***3.12 High Availability Clustering***

One of our high-end services is based on making full use of available computing power through clustering. By combining a number of inexpensive systems to form a huge cluster, we can run applications that would normally require mainframe deployment at exorbitant costs.

### ***3.13 Development Environments***

Software development has its own unique requirements that must allow a team of developers to work together and exchange information freely. It often requires custom testing environments and reliable data handling which we can help you accomplish with tools such as CVS, Bugzilla and our customized backup software.

### ***3.14 Customized Software***

Often, there is a need for customized solutions to simplify everyday tasks such as user management and system configuration as well as full fledged content management systems. Our development division can provide these tailored to your satisfaction.

Our team has extensive experience in open source CMS(drupal, wordpress,

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joomla) ranging from documenting requirements/reports/tutorials, tweaking themes, configuring and writing modules, trouble shooting, SEO and website content writing, and other related stuff.

### ***3.15 Training***

We offer a number of training courses for on-site personnel that will provide them extensive knowledge of the systems they must handle. In addition to this, our workshops and seminars can be very informative.

A list of supported distributions and software can be found on our Support page.

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## 4 Copyleft Supported Softwares

The following is a list of distributions and other software officially supported and recommended by us:

### 4.1 Linux Distributions

- Red Hat
- Fedora
- Debian
- Slackware
- Gentoo
- SuSE
- Mandrake
- Knoppix

### 4.2 Free Software

- Apache Httpd (Web Server)
- Jakarta Tomcat (Application Server)
- Open Office (Office Suite)
- Gnome Office (Office Suite)
- Exim (Mail Transport Agent)
- Samba (Protocol for integrating with Windows networks)
- PostgreSQL (Database Server)
- MySQL (Database Server)
- CVS (Version Control System)
- Bugzilla (Bug Tracking Tool)
- Squid (Powerful proxy software)

### 4.3 Other Operating Systems (limited support)

- FreeBSD
- NetBSD
- Solaris

### 4.4 Commercial Software (limited support)

- Resin (Application Server)
- Oracle for Linux (Database Software)
- Sybase for Linux (Database Software)

Our expertise cover many more excellent pieces of software not mentioned here. Please feel free to get in touch with us for further information.

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## 5 Copyleft solutions Technical Team

### **Bilal Toru**

Position: *Chief Executive Officer*

Qualification: BS(CS), FAST-NU, Islamabad, Pakistan

He is a Certified system administrator with experience in UNIX Shell Programming, Systems and Network Administration. He has substantial exposure to variety of UNIX based operating systems. He has earned a great repute working for diverse nature of clients ranging from Armed Forces to Education centers to various business organizations.

### **Qudsiyya Mehtab**

Position: *Business Coordinator*

Qualification: BS(CS), FAST-NU, Islamabad, Pakistan

She initiated her career as an application analyst developing software applications for telecom fraud management product. Later earned experience in the data warehouse industry working as a system analyst and data acquisition developer.

### **Hasnain Jafar**

Position: *System Administrator*

Qualification: BS(CS), FAST-NU, Islamabad, Pakistan

MS(CS), Adelaide, Australia

He has experience of setting up high performance clusters for high-energy physics experiments. Also has professional knowledge of installing and maintaining various Linux servers. Currently, he is helping us as a consultant since he is pursuing his Phd degree in Australia.

### **Raja Hammad**

Position: *Senior IT Consultant*

Qualification: MS (CS), LUMS, Lahore, Pakistan

BCS Hons, Bahria Institute of Management & Computer Sciences, Islamabad, Pakistan

IT Professional with over 7 years of experience in design, implementation and management of enterprise system infrastructure, application and network services architecture and security, system integration, process automation and application development.

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## **6 Contact Information**

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