Achieving Business Agility with Open Source Software.

NODE4
enabling business to do business

In today's fast paced data driven economy a lack of agility is a nail in your business's coffin. With consumers and users demanding immediate results. Your infrastructure has to be agile, secure and be able to scale according to that demand.

Open Source software allows "business agility" a quality increasingly valued above all others in the fast-changing marketplace. The ability to create new applications quickly, reliably and economically is drawing businesses big and small to Open Source and encourage them to use it for ever-larger projects.

Open Source
keeps costs down

How can Netflix charge as little as $8 per month for its service? Because everything is built on Open Source software. They are focused on content, not building an operating system or a testing framework. Using content management system such as Drupal, JBoss and WordPress companies get the 'Lego blocks' for free, so they can spend their time and resources building what they want in particular. Cost savings may be only part of Open Source's allure, but it's still a big part, no matter what size the organisation.

Open Source
delivers business agility

Not to be confused with agile development, business agility is the ability to react to marketplace demands quickly. Open Source provides this to developers and businesses alike by improving the pace of software development. Open Source's speed advantage is increasing with popularity within enterprise IT development. Developer can use an Open Source development framework and be confident that the framework is secure and robust.

Open Source
improves quality

Open Source fans have long contended that the methodology produces better software. Their reasoning: If code is flawed, the developer community can identify and address the problem quickly, where a single coder might plod on unawares, at least for a while. There is a consequential benefit [to Open Source] from both a reliability and a financial perspective.
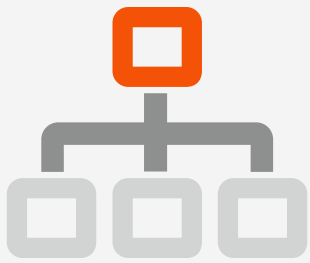
Open Source
reduces business risk

By reducing dependence on a single or multiple vendors, the Open Source option avoids vendor lock-in, provides the ability to customise and to have a better feel of what you're paying for, thereby reducing business risk.

> WE'VE USED OTHER PROVIDERS IN THE PAST TO DELIVER DIFFERENT PROJECTS, HOWEVER THE SERVICE FROM NODE4 HAS BEEN SPOT ON FROM DAY ONE… THEIR ADVICE, SUPPORT AND QUALITY OF SERVICE HAS BEEN GREAT AND WE ARE HOPING TO BUILD A LONG TERM RELATIONSHIP AS A RESULT OF THE (OPEN SOURCE) PROJECT.

Wayne Campbell, MD Healthy Performance

How can Node4 support my Open Source systems?

Node4 provide an end-to-end managed service for:

LAMP

Open Source Applications Stack

Dev/Ops and Code Management

OpenStack Open Source IaaS

LAMP - Linux, Apache, MySQL, PHP/Python/Perl

With LAMP servers powering 53% of all internet facing web servers (NetCraft May 2015) many of these systems will be business critical and revenue generating. Node4 have supported LAMP servers for over 10 years and have experience in dealing with situations that may take less experienced users days of Googling. Node4's managed service for LAMP goes beyond the Linux OS to include the web, database and cache layer.

Node4 LAMP management includes :

> Linux distributions - Redhat, CentOS, Debian, Ubuntu

> Web Layer - Apache, Nginx, PHP, Python, CPanel

> Databases - MySQL, PostgreSQL, MariaDB, XtraDB, Mongo

> Cache - Varnish, Memcache, Redis

Node4 can also provide managed services for the Java solution stack such as Tomcat and JBoss.

Open Source Application Stack

LAMP is the foundation of the Open Source software stack. Building on top of this stack are the application frameworks such as Drupal, Symfony, WordPress and JBoss. Deploying these stacks to operate efficiency requires in depth knowledge of Open Source software. Poor configuration results in lack of performance, unreliability and most concerning a lack of security. Node4 can provide a management wrap around the application stack that includes

> Installation and Configuration

> Load Testing

> On-going Security Assessments

> Application Performance Monitoring and Alerting

> Application Patching

Dev/Ops and Code Management

Dev/Ops is a methodology where development and operations work hand-in-hand to create business systems that are agile, repeatable and easily maintained. Development teams are empowered by having access to infrastructure-as-a-service (IaaS) resources, centralised coding repositories and deployment processes which increases efficiency to enables them to meet ever increasing deadlines. Operations teams manage deployment and infrastructure as code creating dynamic auto-scaling solutions which maximise the resources at hand. Open Source tools are fundamental to this Dev/Ops culture and Node4 have assisted organisation with processes and systems enabling the business to benefit from these technologies.

> OpenStack

> Git

> Jenkins

> Puppet

> Chef

> Ansible

> Packer

> Vagrant

OpenStack Open Source Infrastructure-as-a-Service

The days of waiting for infrastructure resources are numbered. Provisioning servers should be as easy as clicking a button or running a script. Software is redefining the way server and network resources are being provisioned, deployed and consumed. Underpinning this redefinition is OpenStack.

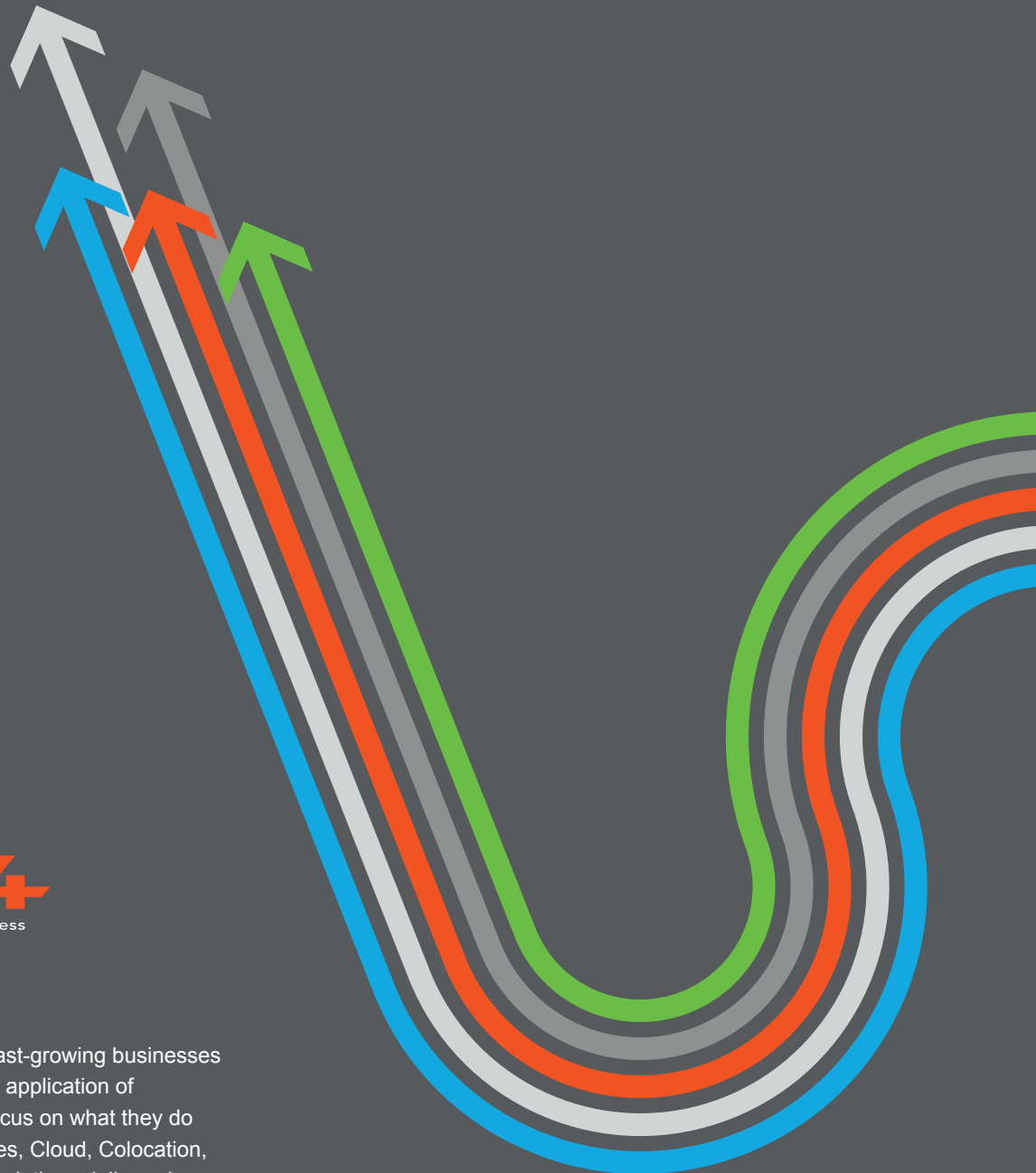**OpenStack is a framework of API driven components providing:**

> Compute

> Storage

> Network

> Authentication

> Database

> Orchestration

OpenStack enables businesses to deploy self-service environments, auto-scaling applications and self build infrastructures. Whether these solutions are on-premise, hybrid or private cloud Node4 provide a full managed service to help you maximise the power of OpenStack.

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About Node4

At Node4 we're all about serving fast-growing businesses
with the most effective and flexible application of
technology, leaving them free to focus on what they do
best. We provide Managed Services, Cloud, Colocation,
Connectivity and Communication solutions delivered across
our national MPLS network powered by industry leading
Data Centres based in Derby, Leeds and Northampton.

We believe in flexibility because everyone is different.

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