

Managing expanding business

Critical Linux workloads



Why are we here?

If you have a large Linux workload, would you be better off running it on an IBM mainframe?

On our regcast today

John Easton

IBM

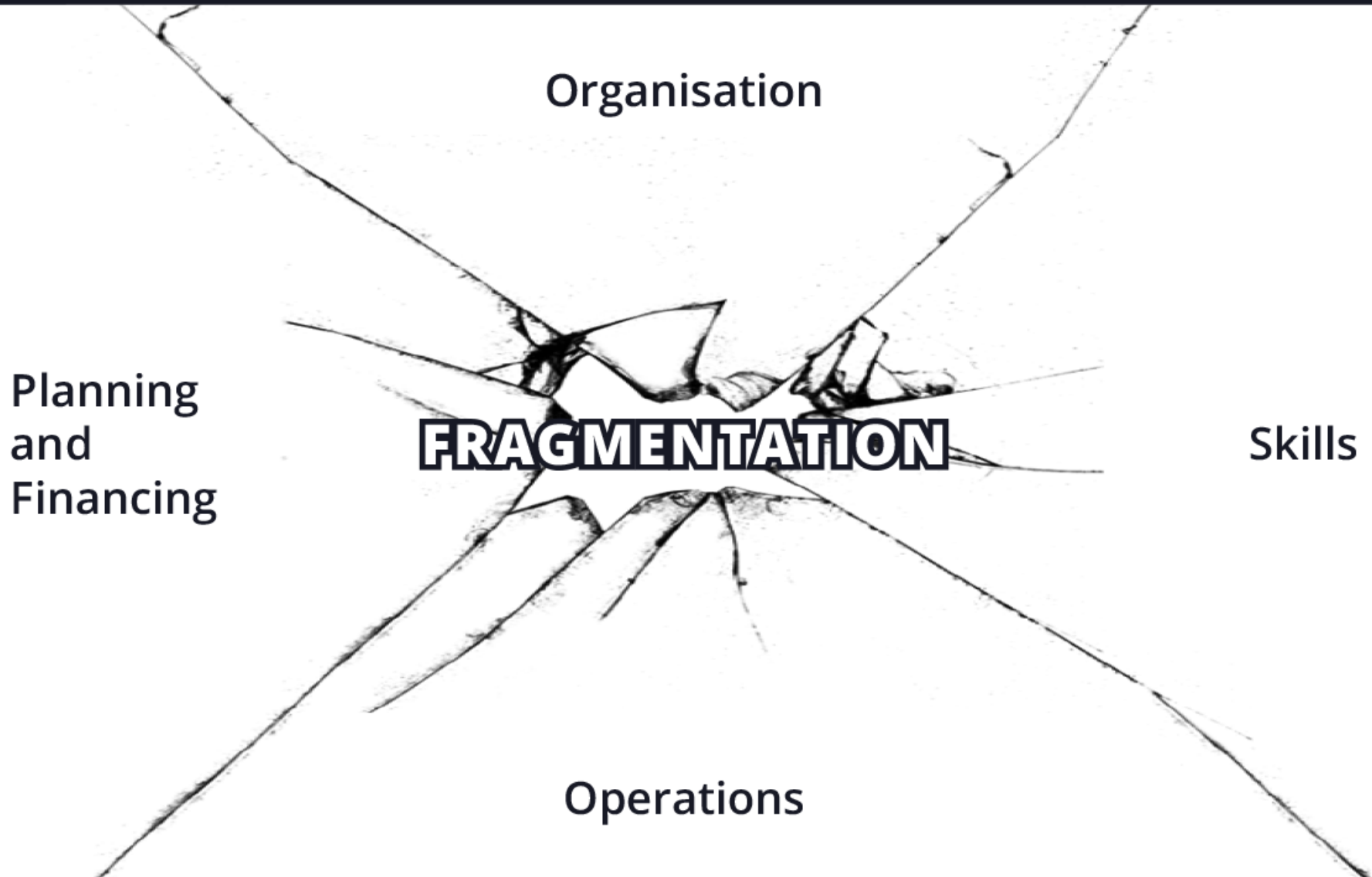
Tony Lock

Freeform Dynamics

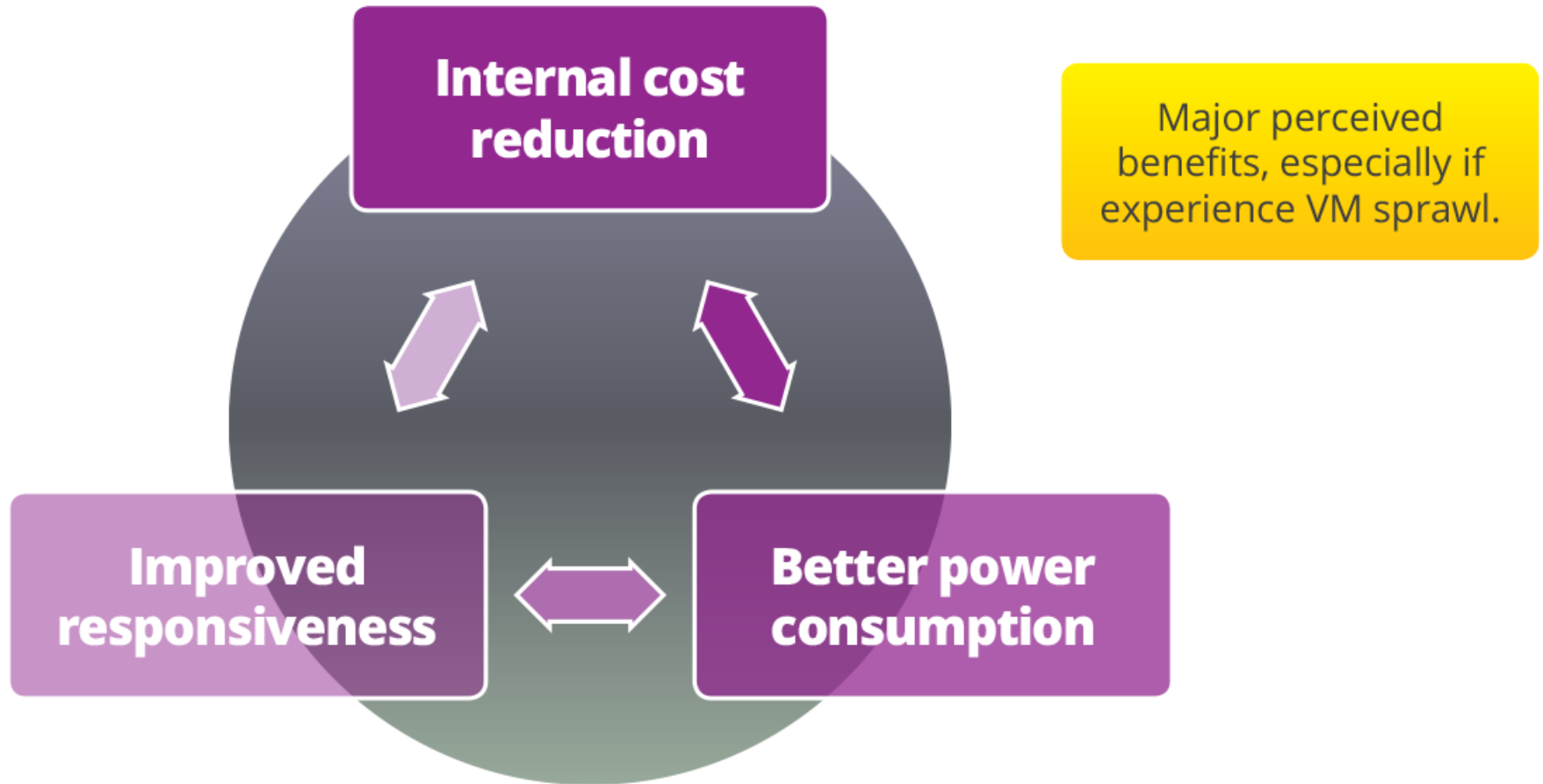
Tim Phillips

The Reg

Cost cutting by addressing fragmentation



Why consolidate through virtualisation?



Potential benefits?

**Centralised
resource
management**

**Storage and
networking
integration**

**Space and
power**

Scalability and manageability

**Software
licensing**

Reliability, availability and security

Manage

10,000

virtual servers in
a single system

Real-time

operational analytics

Elastic, scalable

cloud
computing

Ultimate

security

Process complex
analytics up to

2000x
faster

Highly available

hybrid
computing

Centralised

managment

A system running...

- Web Services
- Business Rules
- eCommerce
- Web applications
- Cloud
- Business analytics

**on a mission-critical, secure
and efficient Linux platform**



Half the price

	x86 (1440 cores)	zCloud (48 IFLs)
Hardware	\$2.9M	\$4.9M
Software	\$24.2M	\$8.5M
Labour	\$7.9M	\$1.8M
Space/power/cooling	\$1.2M	\$0.5M
Disaster Recovery	\$6.5M	\$4.8M
5 year TCO	\$42.7M	\$20.5M
Oracle DB/App costs	\$13.1M	\$1.92M

Half the power

# of VMs	System z	x86
450	12.6W (z114)	30.8W
3200	9.6W (z196)	30.8W

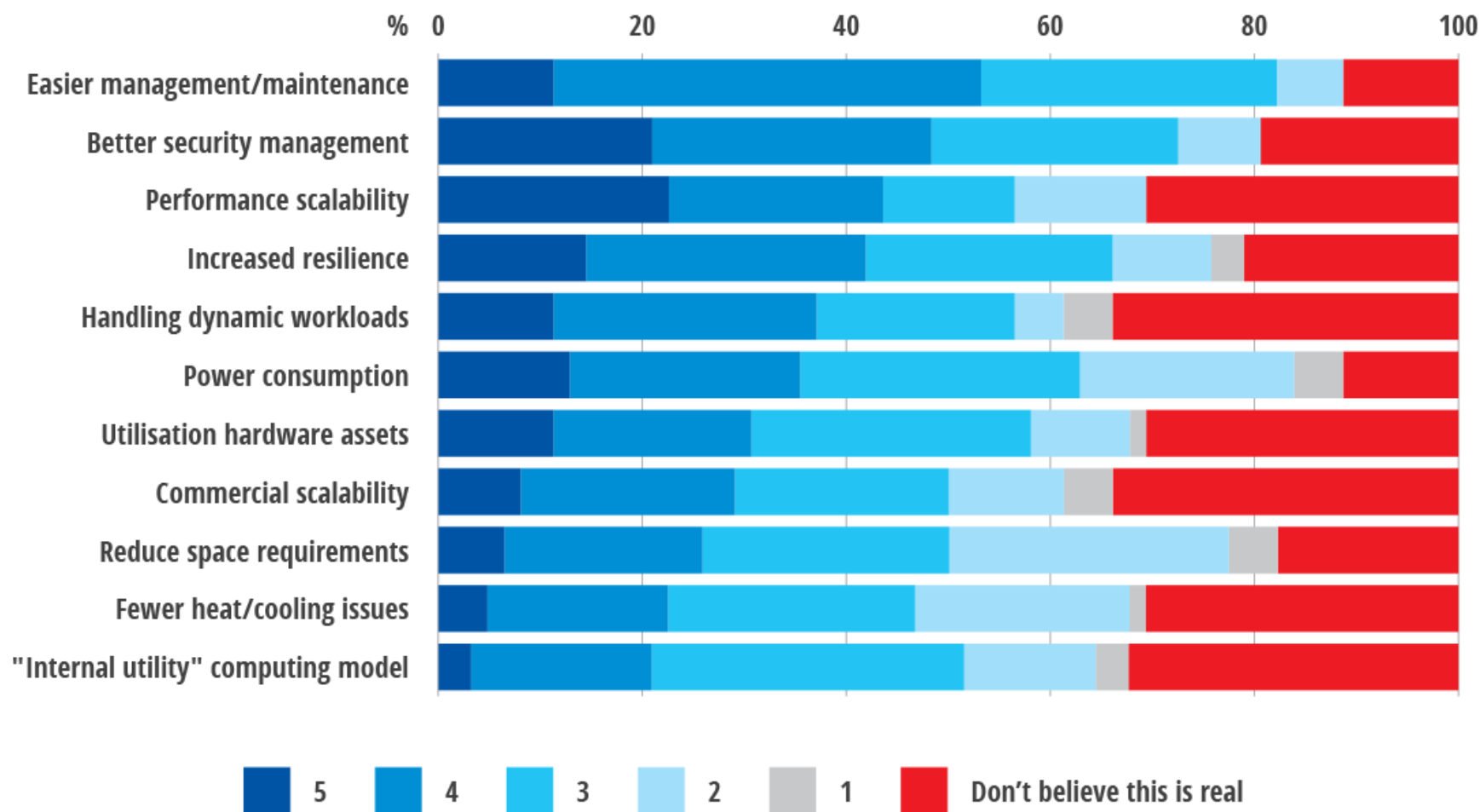
More secure

- Highest security classification of any commercially available server
- Awarded Common Criteria Evaluation Assurance Level 5 (EAL5) by ISO
- Virtual network and workload isolation

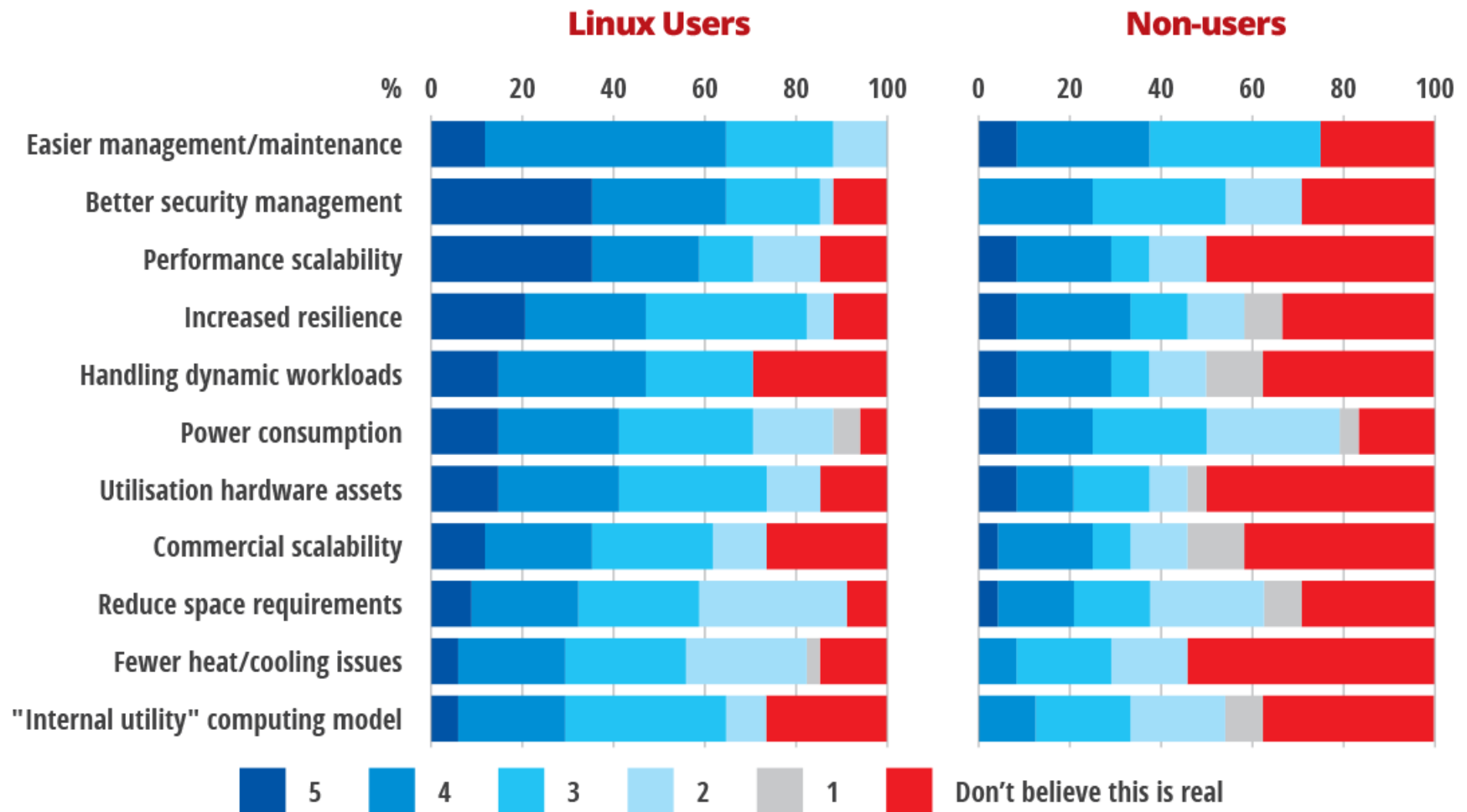
More performance

Workload	# of users	Response time
Call centre	35,000	Sub-second
Consumer product management	9,000	1.1 seconds
Hybrid CPM	12,000	1.22 seconds

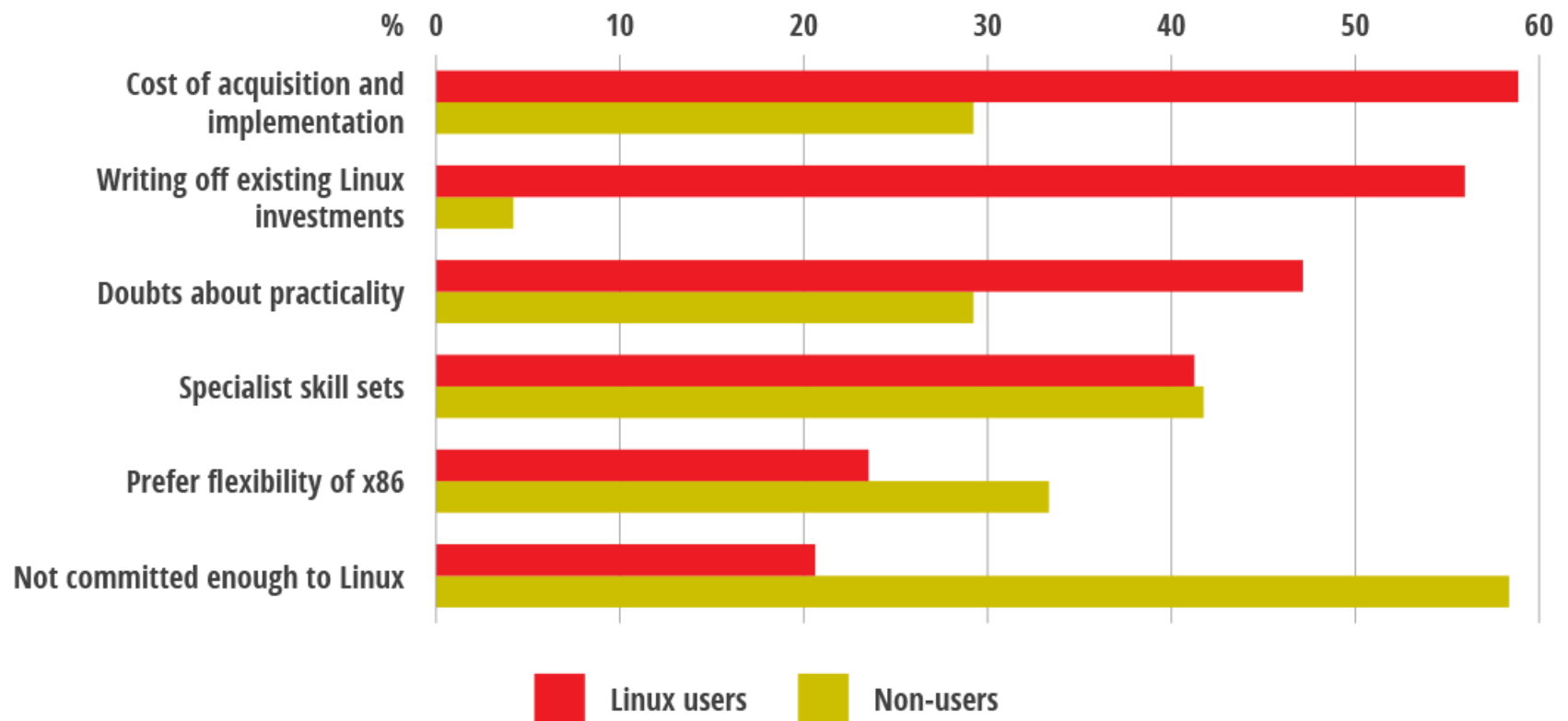
Benefits of a "Scalable Virtual Linux platform" over estate of x86 Linux?



Benefits of a "Scalable Virtual Linux platform" concept over x86 Linux



“Scalable Virtual Linux platform” blockers



Further reading

IBM Events/ Workshops

“Rethink the Art of Possible: The New zEnterprise for Next Era Critical Workloads”

June 25, 2013/IBM Southbank – London

<http://ibm.co/13HXj8j>

GSE zLinux Working Group 1st Half 2013 Meeting

<http://bit.ly/193tD7X>

“Fit for Purpose Workshop” or “Eagle Study”

Request a free workshop by emailing

Fredy_bia@uk.ibm.com

System z and Linux resources

<http://ibm.co/102c4C7>

<http://bit.ly/118JCdm>

<http://ibm.co/YSElML>

<http://ibm.co/127WSRH>

<http://ibm.co/10ERzrF>

Thanks for joining us



An archived version of today's events will be made available on The Register in the near future.
