

# **Tavola rotonda**

## **“Transizione verso il cloud”**

GARR 2017 - Netvolution  
Roma, CNR – 6 aprile 2017

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# Le 6 domande di Attardi



1. La vostra istituzione ha adottato una strategia per la transizione verso il cloud computing?
2. Quali sono i motivi principali per questa scelta?
3. Quali investimenti intende fare (infrastrutture, personale) per perseguire questa strategia?
4. Esiste una specificità di esigenze di cloud computing per ricerca e formazione?
5. Federare risorse e condividere competenze è una alternativa praticabile?
6. Quanto preoccupa il rischio di lock-in delle soluzioni commerciali?

# 1. La vostra istituzione ha adottato una strategia per la transizione verso il cloud computing?



Una **strategia** è la descrizione di un piano d'azione di lungo termine usato per impostare e successivamente coordinare le azioni tese a raggiungere uno scopo predeterminato.

## 2. Quali sono i motivi principali per questa scelta (o NON scelta) ?

Miopia (?) – Disattenzione ai cambiamenti di paradigma (?) – Risorse (?) - ????? - Amarcor.....



Prof. **Giuseppe Biorci**, personalità che tanto ha dato al CNR (del quale è stato anche Vicepresidente) e che in qualità di Presidente della **Commissione Generale per l'Informatica del CNR**, ha indubbiamente contribuito alla diffusione della cultura del calcolo e delle reti nel nostro Paese.



**3. Quali investimenti intende fare (infrastrutture, personale) per perseguire questa strategia?**



**4. Esiste una specificità di esigenze di cloud computing per ricerca e formazione?**



## Servizi attualmente attivi:

- ❑ Hosting mail: circa 100 domini
- ❑ Storage Cloud: circa 1K utenti attivi
- ❑ Macchine virtuali in housing: 50 attive
- ❑ Platform as a Service-PaaS (es. siti web):  
circa 200 attive

Fonte CNR, Ufficio “Sistemi Informativi e Reti”

# Servizi in fase di rilascio

## ❑ Infrastructure as a Service-IaaS (OpenStack):

- ❖ inizialmente circa 300 macchine virtuali
- ❖ numero in crescita rapida per via di potenziamento in corso)

Fonte CNR, Ufficio “Sistemi Informativi e Reti”

## 5. Federare risorse e condividere competenze è una alternativa praticabile?



“yes, BUT ...”

# **Are we condemned to be dependent by a cloud?**

**Discussing of future among doubts, fears and  
(few) certainties....**

**Thursday, 8th of October 2015**

**Dr. Domenico Laforenza**

Director, Institute for Informatics and Telematics  
Italian National Research Council (CNR)

# WHAT IS PROHIBITING CLOUD ADOPTION?



- **Application readiness**
  - Moving applications to the cloud is not a simple exercise
- **Security concerns**
  - Data protection issues, security concerns, data lock-in
- **Data sovereignty**
  - Scepticism about where data would be geographically located once deployed to the cloud
- **Reliance on established cloud implementation types**
  - Private cloud is likely to account for the majority, both at present and in future



# Cloud Computing

Doubts, Fears,.....

Computing

Cloud computing is a trap, warns GNU founder Richard Stallman

September 29, 2008

Web-based programs like Google's Gmail will force people to buy into locked, proprietary systems that will cost more and more over time, according to the free software campaigner

**Bobbie Johnson**, technology correspondent

Monday 29 September 2008 14.11 BST

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Richard Stallman on cloud computing: "It's stupidity. It's worse than stupidity: it's a marketing hype campaign." Photograph: [www.stallman.org](http://www.stallman.org) Public domain

The concept of using web-based programs like Google's Gmail is "worse than stupidity", according to a leading advocate of free software.

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TAKE YOUR BUSINESS ON THE CLOUD WITH OPENSTACK

OpenStack Botcamp Rome, 13-15 October

Cloud computing, the latest marketing description for a notion put forth by computer industry companies in recent years, moves most of the computing power--and sometimes data--to servers maintained by companies such as Google, Microsoft, and Amazon. The classic example of cloud computing might be Gmail, offered by Google.

CNET > Tech Culture > Oracle's Ellison nails cloud computing

# Oracle's Ellison nails cloud computing

Speaking at OracleWorld, CEO Larry Ellison says the computer industry is more fashion-driven than women's fashion and cloud computing is simply the latest fashion.

September 26, 2008

Tech Culture

September 26, 2008

5:48 PM PDT



by **Dan Farber**  
@dbfarber



Finally, a technology executive willing to tell the truth about cloud computing. Speaking at **Oracle OpenWorld**, Larry Ellison said that the computer industry is more fashion-driven than women's fashion and cloud computing is simply the latest fashion. The *Wall Street Journal* quoted the Oracle CEO's remarks:

I led a panel at the **MIT Emerging Technology Conference** earlier this week on cloud computing with some of the leaders in the field: David P. Anderson, research scientist, University of California at Berkeley; Matthew Glotzbach, product management director, Google; Parker Harris, EVP, Technology, Salesforce.com;



Oracle CEO Larry Ellison

Dan Farber

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No, thanks.

and Werner Vogels, VP . The group generally computing involves software but that there are different scenarios.

ing about cloud computing is that we've redefined cloud computing to include already do. I can't think of anything that isn't cloud computing with all of these ie computer industry is the only industry that is more fashion-driven than women's an idiot, but I have no idea what anyone is talking about. What is it? It's complete

“The interesting thing about cloud computing is that we’ve redefined cloud computing to include everything that we already do,” he said. “The computer industry is the only industry that is more fashion-driven than women’s fashion. Maybe I’m an idiot, but I have no idea what anyone is talking about. What is it? It’s complete gibberish. It’s insane. When is this idiocy going to stop?”

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What about the Stallman's concerns  
today ?

Are they resolved?





Protests in Berlin against US surveillance, after the Edward Snowden case. Photograph: Lars Dickhoff/Corbis



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# PRISM/US-984XN Overview

OR

*The SIGAD Used **Most** in NSA Reporting*  
Overview



April 2013

Derived From: NSA/CSSM 1-52  
Dated: 20070108  
Declassify On: 20360901

TOP SECRET//SI//ORCON//NOFORN



# (Cyber) Security is still the top inhibitor

Question: How do we protect our data ?

# 6. Quanto preoccupa il rischio di lock-in delle soluzioni commerciali?

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English (en)



JUSTICE

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## DATA PROTECTION

Reform of the data protection  
legal framework

Data transfers outside the  
EU

Article 29 working party

Opinions and recommendations

Entities collecting data

Protecting your personal

## Protection of personal data

In January 2012, the European Commission proposed a comprehensive **reform of data protection rules in the EU**.

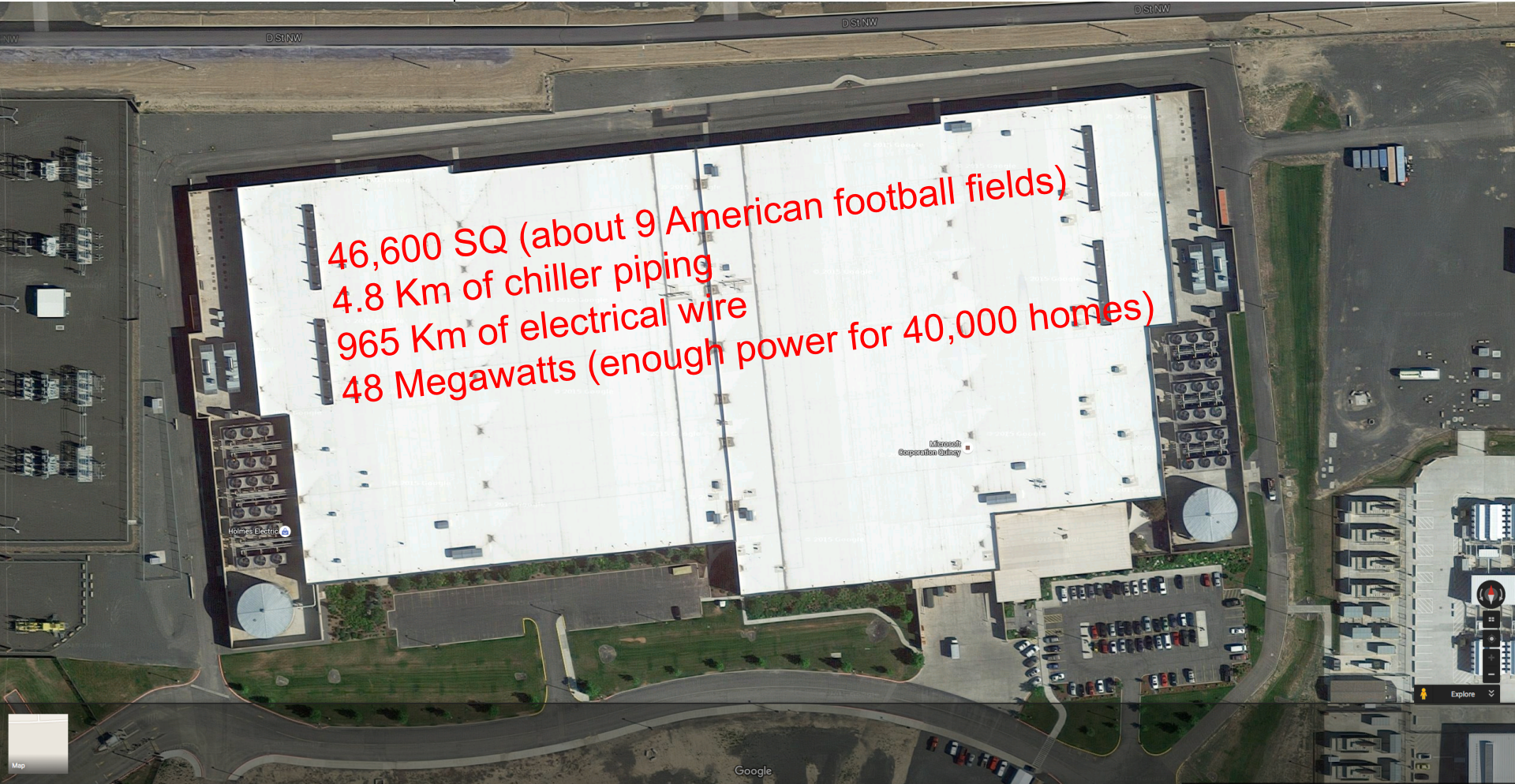
On 4 May 2016, the official texts of the Regulation and the Directive have been published in the EU Official Journal in all the official languages. While the **Regulation** will enter into force on 24 May 2016, it shall apply from **25 May 2018**. The **Directive** enters into force on 5 May 2016 and EU Member States have to transpose it into their national law by **6 May 2018**.

The objective of this new set of rules is to give citizens back control over of their personal data, and to simplify the regulatory environment for business. The data protection reform is a key enabler of the Digital Single Market which the Commission has prioritised. The reform will allow European citizens and businesses to fully benefit from the digital economy.

# To be dependent by a cloud.....





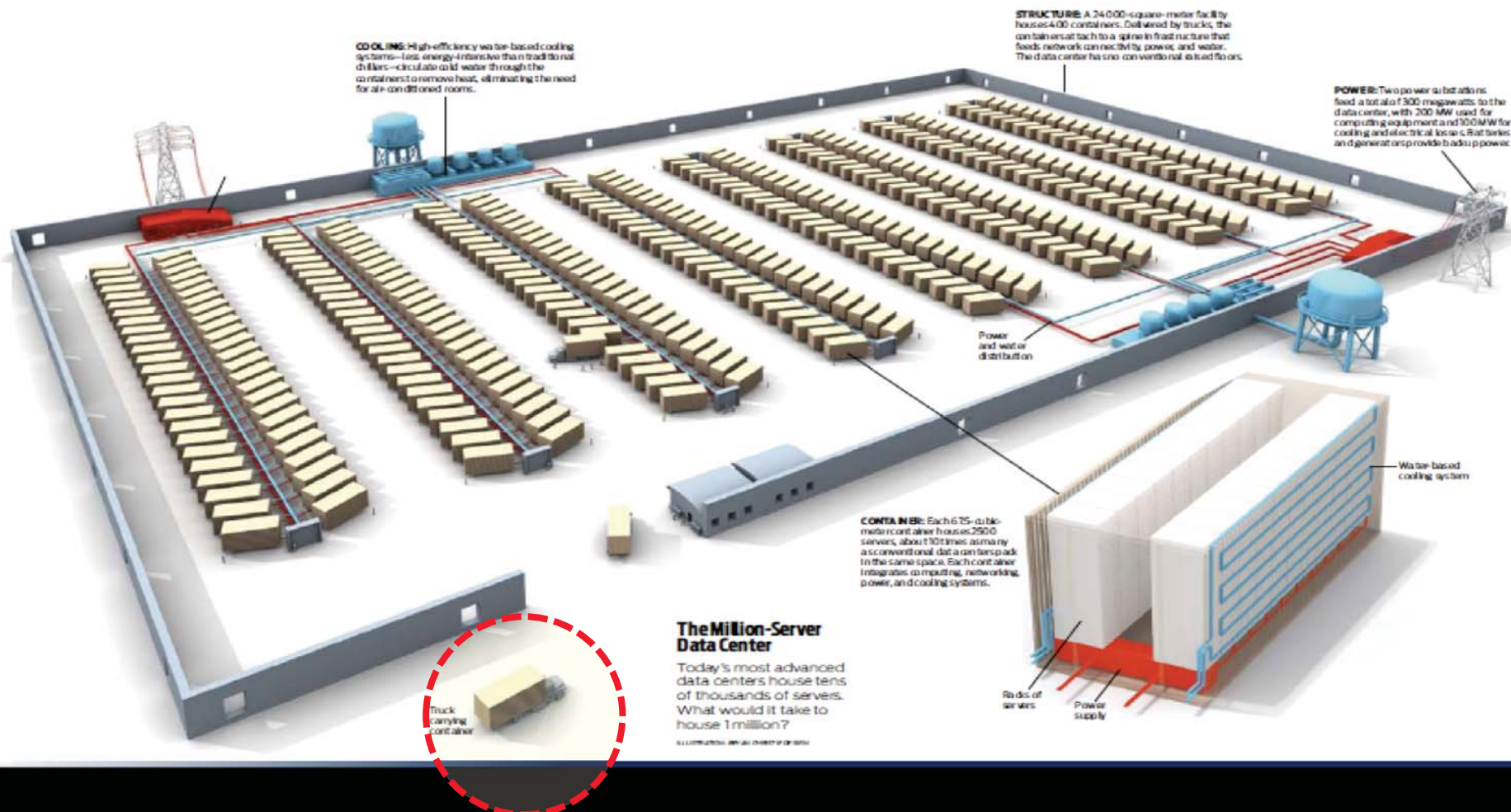


## Microsoft Corporation Quincy (Washington, USA)

<https://www.google.it/maps/@47.2401868,-119.863063,288m/data=!3m1!1e3>

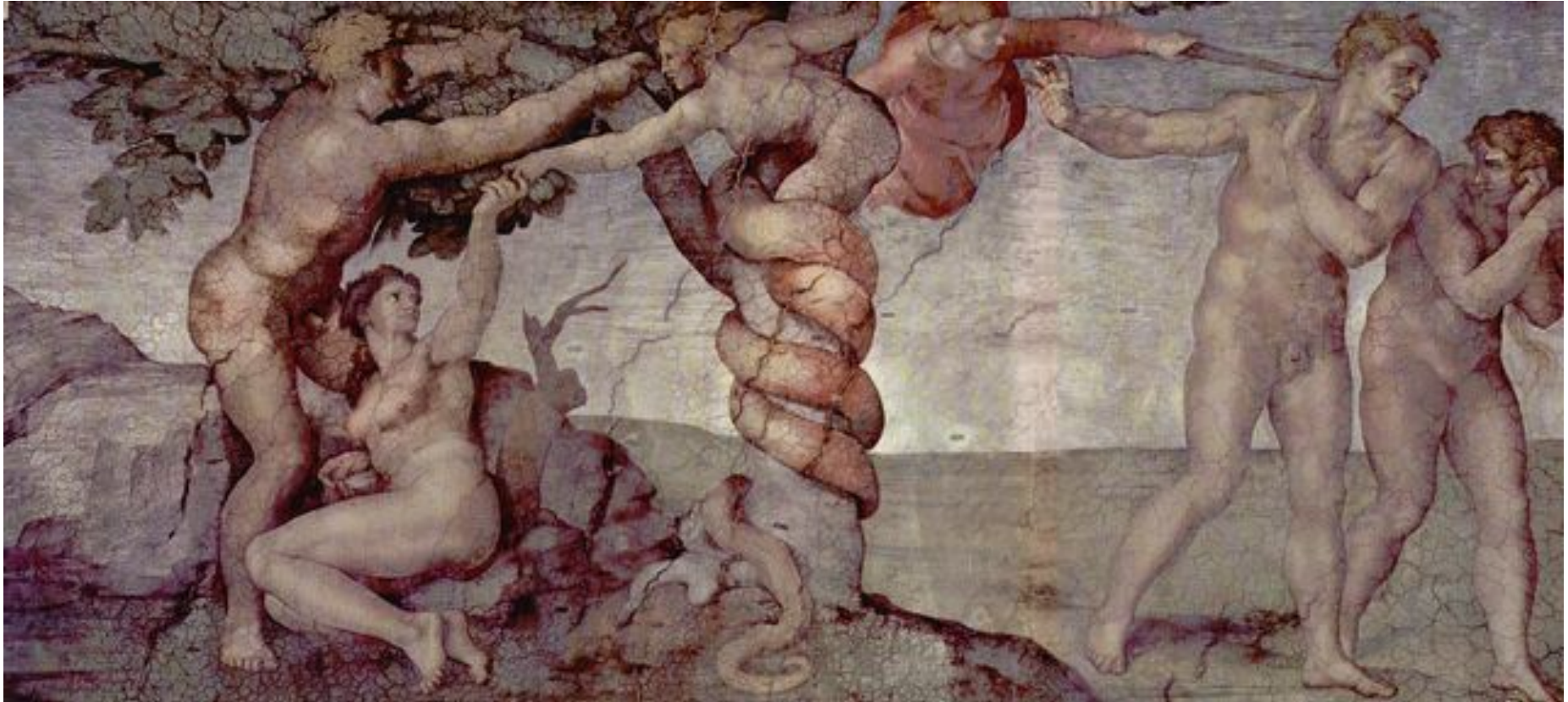


# The Million Server Datacenter





# Are we condemned to be dependent by a cloud?



Michelangelo's painting of the sin of Adam and Eve from the Sistine Chapel ceiling

**WHEREAS,**

Several **EVIL-MINDED PERSONS** have assembled together in a riotous Manner, and **DESTROYED** a NUMBER of

**FRAMES,**

In different Parts of the Country :

THIS IS

**TO GIVE NOTICE,**

That any Person who will give Information of any Person or Persons thus wickedly

**BREAKING THE FRAMES,**

Shall, upon **CONVICTION**, receive

**50 GUINEAS**  
**REWARD.**

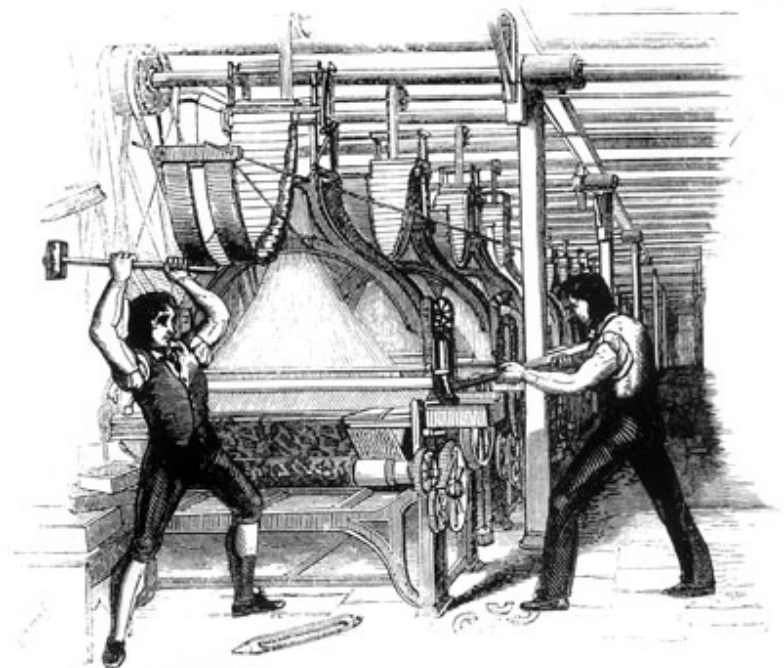
And any Person who was actively engaged in **RIOTING**, who will impeach his Accomplices, shall, upon **CONVICTION**, receive the same Reward, and every Effort made to procure his Pardon.

Information to be given to Messrs. **COLDHAM** and **ENFIELD**.

Newcastle, March 26, 1811.

*D. Brown, Printer, Newcastle*

It is not the time for  
New Luddism.....  
Cloud Computing is  
a reality..... but



Cloud Computing is a reality..... but the following issues need to be addressed and solved

- Security
- Interoperability
- Data portability



*So what? ? Will it be cloudy tomorrow?*

**YES!**

But What Happens is up to us.....



# Thanks for Your Attention

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