Stefano Portelli

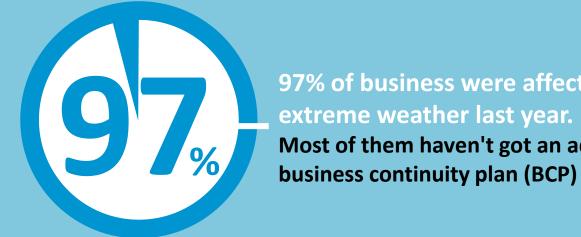
Project Manager Consulting Cloud & Virtual Data Center EMC Consulting

omputin

SI

BEATS

Exceptional bad weather can cost companies money. Many workers lack the ability to work when away from the office or with transport systems failing. There should be a way to allow workers to ply their trade anywhere from accessing emails, workflow and documents, through communicating with colleagues to having the ability to rearrange face to face meeting with online equivalent.



97% of business were affected by Most of them haven't got an adequate business continuity plan (BCP) in place.

The Chartered Management Institute's [1] latest research into the preparedness of organisations for crises – such as IT failure or extreme weather – reveals more than half are pulling themselves at considerable risk by failing to have any sort of plan in place to deal with incidents which impact on their day-to-day work.

the worst

that can happen?

Problem

The

severe snow could cost the UK economy as much as **£ 1.500.000.000** 73% of companies during the snow and ice times suffered staff shortages and only 39% of those had the ability to work remotely.

Half of managers see this (Weather) as a significant threat to business, with IT failure, loss of telecommunications and loss of access to the workplace the three crises they worry about the most. Each winter the freezing weather conditions and snow have forced millions of people to stay at home, with road and school closures preventing from working.

Snow

Travel Chaos

Problems of Fuel Supplies

+

Transport Disruption



Closed or

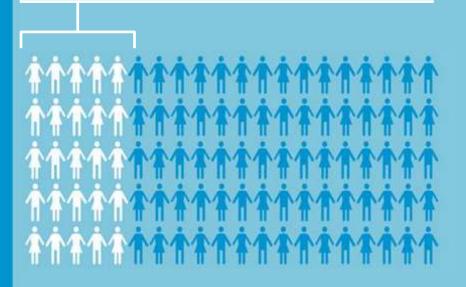
dangerous roads



Cancelled, reduced or Revised Services

20%

1/5th of workers, 6.4 million people, in the UK unable to get into work this year compared to an all time high of 14% in last years snow.



£391,000,000

The amount that small business employers spend per year an absence control and management, more than on any other aspect of employment law.

The Centre for Economic and Business research [2] estimates that 2-3000 small business could fail due to the bad weather this winter. Less than half of companies are protected against the cold weather – this doesn't need to cost more money, in fact it can cost less...

What is Cloud Computing

> Cloud computing is a model for enabling ubiquitous, convenient, on-demand network access to a shared pool of Whildurbale computing lesd likes (e.g., networks, servers, storage, applications, and Graiges) that can be rapidly provisioned and released with minimal management effort or service provider interaction. - National Institute of Standard and Technology - NIST

The

Solution

Quick-est history of Cloud Computing (Minimalistic version)











2000BC

Sumerians devise the abacus

1967

Texas Instruments introduce first hand-held calculator, code named "Cal-Tech".

1973

Xerox invents "Xerox Alto" the first personal PC that had a graphical operating system (GUI) that later served as inspiration for Apple Computer's Macintosh, and Microsoft's Windows operating system

1990

Company starts to deliver application through web

Quick-est history of Cloud Computing



1990s

Ian Foster and Carl Kesselman came up with the concept of "The Grid". The analogy used was of the electricity grid where users could plug into the grid and use a metered utility service Plug into a grid of computers and pay for what you use.

2006

Introduction of Amazon's Elastic Compute cloud (EC2) as a commercial web service that allowed small companies and individuals to rent computers on which to run their own computer applications.

2002

Amazon offered "Amazon Web Service" cloud computing to customers.

2007

Research on cloud computing was undertaken by companies like Google and IBM

2009

computing.

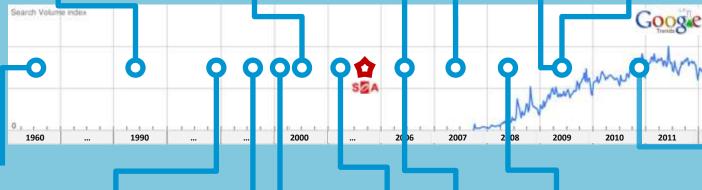
2009

The national Science Foundation

awarded approx. \$5 million in

grants for researching cloud

Also Microsoft launch his Cloud Computing Platform: Azure



2003

1960s

Ideas about computation as a public utility emerged in public discourse and literature. Mainframe computers first uses by businesses for computation; like census data processing, statistics and financial transaction processing.

1998

Diane Greene, Mendel Rosenblum, Scott Devine, Edward Wang and Edouard Bugnion found Vmware.

1997

The term "cloud computing" was first used by Information System Professor, Ramnath Chellappa.

1999

Salesforce.com introduced the concept of delivering enterprise applications via a simple website

Jim Gray published a paper on Distributed Computing Economics

Open source AWS API-compatible platform called Eucalyptus offered private clouds. Packaging of computing resources became a metered service called Utility Computing

2008

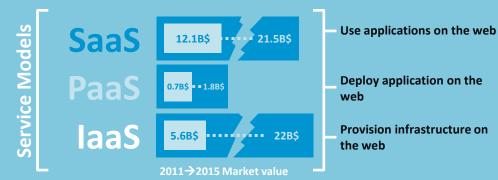
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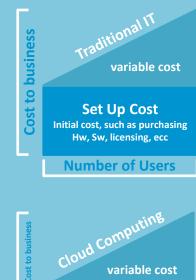
Oracle Fujitsu Teradata HP EMC

2006

Google Docs brought cloud computing to the forefront of public consciousness

What are the key type of Cloud?





Pay for what you use

And... what are the reasons?

Easy and fast to deploy

reasons to use cloud computing

Montly payment plan

Encourage standards

Require less in-house staff



was the used server resources just before Amazon.com started their journey to the cloud, the remaining 90% just "going to waste" waiting for the occasional service spikes.

Private vs Public (Deployment Model)?

Data and applications are only stored on the enterprise 's own servers. IT resources are pooled and shared between different business unit in the same organization



EMC²

Never

underestimate the power (and cost) of Private Cloud.

Costs

Equipment/ Hardware Virtualization Hypervisor Data Center Personnel

Benefits

Mission Critical Applications Security & Trust Simplification SLA Management

60% of private cloud cost is personnel

Private Cloud Recommended for Business over \$1 Billion

2011 - 15.3B\$

2020 - 82.3B\$

www.are

It is forecasted that business spending on virtual private and private cloud will hit \$82.3 billion by 2020.

Private vs <u>Public</u> (Deplo

Data and applications are only stored on a third-party servers. IT resources are delivered through specialist providers.

If (\$CompanyWorth >= 1 billion dollars)
<pre>\$PrivateCloud = "Yes"</pre>
} else {
<pre>\$PrivateCloud = "Try the public cloud"</pre>
}
//end cloud computing evaluation

Do you know those?







f











All of those company provide or highly use Public Cloud resources. Their services are possible since they are running on the cloud, as more people just like you sign on to use more services, thanks to the cloud, there will be enough capacity and power to run them all, and whichever awesome ones are coming next.

Costs Benefits

Loss of Control Montly Fee Increase Support Cost Professional Services Increase utilization Simplification – Do more with less Pay as you go Time to Provision SaaS capabilities



Ads for full-time IT jobs focused on cloud computing grew between Nov 2009 – Nov 2010

With any type of Deployment Model even small business (SME) can leverage Cloud Computing

BACKUP

With storage demand expected to triple in the next 5 years, cloud offers unlimited scale at fixed cost.

SOFTWARE ACCESS

Turns popular but expensive software like Office, Exchange, and Quickbooks into montly fee instead of a major investment in licensing and supporting hardware.

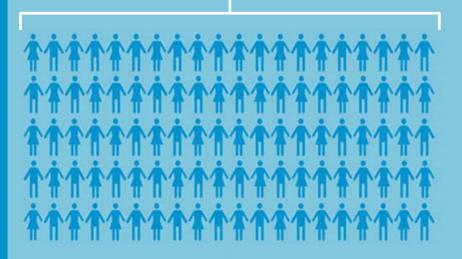
FILE SHARING

Users can remotely access and collaborate on digitally stored resources in the office, on the road. From desktops, laptops and mobile devices.

CRM

CRM provides small business a great cost-effective tool to manage client lifecycle, track leads and store marketing docs.

With IT in the cloud, 100% of employees could access their work system from home with 99.9% guarantee uptime.



76% of mobile workers feels that the ability to work outside the office, yet remain in constant contact, has been a positive development, even though almost a third are now working longer hours.

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Infographic:

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