EVOLUTION OF THE IT PRO

Does the cloud mean extinction for the IT Pro? Or is it just another professional evolution? Has there ever been a decade in IT where things didn't change completely?

1974-1985



THE FOUNDING FATHERS

Danny Q. Dos

Habitat: Garage

Video game console: Atari, Colecovision, Commodore 64

physics, computer science within the math department

Present status: Early

IBM 5150 PC

Intel 8088 4.77MHz

• Up to 256 KB of

announced: • MS-DOS 1.0

processor

memory

1982 "TRON" premieres, first

extensive use of 3-D CGI in film.

entrepreneur

Dominant architectures: RISC, IBM System/370, MS-DOS 1.0

Education: Higher mathematics,

Hardcore geeks in the 70s and 80s responded to new technologies by creating dozens of companies and thousands of jobs. By 1985, PCs had made their way into homes and businesses around the world, while mainframes were still the foundation of business IT.

Intel introduces the 74 8080 processor.

(TCP) is specified.

Transmission Control Protocol

Version 6 of UNIX is released.

Microsoft founded April 4 in Albuquerque, New Mexico. First operating system: Altair BASIC.

First **5.25-inch floppy** disk invented.

1977 "Star Wars Episode IV: A New Hope" is released.

Apple II, Commodore PET and Tandy TRS-80 released. Sales build an

"installed base" large enough to economically support software development.

achieving speeds up to 10 MHz.

Intel launches the x86 architecture with its 8086 microprocessor,

Seagate's groundbreaking hard-disk drive can hold a staggering 5 megabytes. Cost: \$1,500.1

81

80

BMC introduces 64 kilobytes memory boards for the Prime Computer.

Computer Products is sold to Microsoft for \$25,000; becomes MS-DOS.

Quick and Dirty Operating System (QDOS) created by Tim Patterson of Seattle

Dozens of tech companies are 82 Commodore 64 released. founded, including Adobe, Compaq, '80-'83 Electronic Arts, Lotus, Sun

Microsystems and Symantec.

Michael **Dell** launches his PC company and grosses more than \$73 million in first-year sales.

Novell develops NetWare, a network file-sharing 83 system that runs on CP/M and DOS.

5MB

1984 The game "Tetris" is first released in USSR.

Microsoft announces the

development of Windows.

National Science Foundation links five university 85 computer systems to form the first "Internet."

1986-1995

Over the next 10 years, the distributed client-server model took

The IT Pro arrives as a new employee in many corporations

THE COLD FLUORESCENT LIGHT OF DAWN

Habitat: Basement

engineering

Laurence Desktop

Video game conso Nintendo, Sega Genesis

Relevant architectures: IBM ESA/390, Windows for Workgroups 3.11, Intel 386

Education: Computer science, electrical

Present Status: Desktop administrator

Habitat: Office, cubicle, server room

Relevant architectures: Windows

servers, IBM zSeries mainframes,

Education: Computer science, electrical engineering, MSCE

Cody Hyperlink

Video game console: Xbox 360, Nintendo Wii, PlayStation III, PC

Relevant architectures: Windows Server 2012, cloud, virtual servers, IBM zEnterprise, Windows Embedded,

Education: Computer science,

Present status: Upwardly mobile

ctrical engineering, data engineering

Habitat: Server station

iOS, Android

Present status: Systems administrator

Video game console: Xbox, Nintendo 64, Sony PlayStation

Linux, ÚNIX

Gary Gigabyte

The Rise of Virtualization, Big Data and the Cloud

Projected revenue for SaaS

providers: \$75 billion.13

hold. Desktop software took a giant leap. Cell phones made their way into luxury cars. By the end of this era, there was a PC on every desk, and managing them was a new profession:

Intel's 486



<mark>is launched Oct</mark>. 17, 1990. Hypertext standard proposed by Tim Burners-Lee

The Internet Movie Database

— the seed that planted the Internet.

Microsoft releases Windows for Intel releases Pentium pro-

Linux released as the first open source system for PCs.

cessor running up to 66 MHz.

Microsoft releases

1 million copies in four days. 1996-2005

Windows 95 and sells

Workgroups 3.11, firmly establishing

the 32-bit era of enterprise computing.

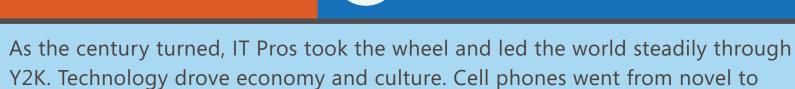
Intel Pentium processor

achieves 166 MHz.

From the Desktop to the Datacenter

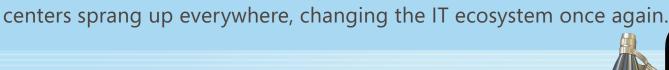
Amazon.com opens

for business.



Microsoft releases Windows NT 4.0,

bringing a graphical interface and



indispensable. UNIX servers gave way to Windows Servers, and data-

Hotmail launched, one of the first modern Web services.

Melissa virus clogs

Internet email systems.

'96 improved management functionality Digital storage becomes more to business computing. cost-effective than paper.³ Windows NT 4.0 Server, Enterprise Edition — Hotmail purchased by 97 Microsoft for \$400 million. a Windows Server product designed for the enterprise.

Intel Pentium III

reaches 600 MHz.

virtual platform. American government and businesses spend

99

00 roughly \$100 billion to fix potential "00" glitch at start of new century. Y2K passes with nary a hitch.

Windows XP is released.

VMware releases VMware

HP merges with Compaq 02 to become a big player in the PC business.

reaches 3.4 GHz.

exabytes from three years prior.4 **Intel Pentium 4** YouTube is founded and comes

2005 The Pandora Internet Radio service is launched.



Today's factors: Virtualization. The cloud. Smartphones.

Berkeley study finds humans produced

5 exabytes of data, an increase of 3.5

Connected devices communicate over the Internet like never before. Touch, gesture and voice interfaces. An avalanche

of data. In the face of it all, IT Pros are evolving again, toward software, services, data, devices and information.

online Feb. 15, 2005.

with hypervisor server virtualization. Microsoft releases Humans have created more than 1,200 exabytes Windows Azure of data. That's 12 with cloud platform. 22 zeros behind it for

Microsoft launches Windows Server 2008

Embedded systems shipments

reach about 3 billion.5

\$62 billion spent on cloud services.7 **2012 EVERY MINUTE**

2010 "TRON Legacy" premieres.

those counting.⁶

72 hours 684,478

pieces of

content

shared⁹

IT Job Growth 4.3%

of video

uploaded8

Cloud-Related Job Growth 26% New Cloud-Related Jobs 7 Million¹¹ Could Reach U.S. Internet projected to be 50 times larger than it was in 2006.14

per day on the service. 12 Embedded systems shipments (projected):

The amount of data generated necessitates a move by most large organizations

2015 AND BEYOND

Windows 8. Windows Server 2012 and

Microsoft Surface are released.

175,000

tweets sent10

6 billion.5

7,610

searches

Skype announces its users spend 2 billion minutes

initiated¹⁰

In the decade beyond, mobile devices will number into the billions and connected devices in the tens of billions, feeding into an expanding enterprise IT infrastructure.

FASTEST GROWING JOBS IN 2016 U.S. Bureau of Labor Statistics

to the cloud. IT Pros, as always, continue to adapt and evolve

44.6% Applications Software Engineers 29% Systems Analysts

53.4% Network Systems and Data Communications Analysts.

28.2% Computer and Systems Software Engineers

Public cloud services market will break

through the \$100 billion mark.

28.6% Database Administrators

Your datacenter and our cloud-working together.



FLYNN

