

23 Things Only 90s Sysadmins will Remember

Sometimes it's a beautiful combination of laugh-inducing and cringeworthy as we look back on the start of our careers in IT. University and College students starting this September will have grown up entirely post-Y2K. Having grown up in enterprise IT through the 90s, I bet that you can share these things that will make you smile a little.

Feel free to drop in comments with your own fun memories of technology in your career!

Token Ring



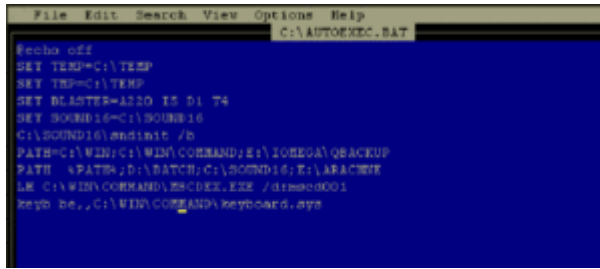
That's right, folks. Ethernet wasn't the first networking that was adopted in the enterprise. As a 90s administrator, you'll remember the pre-switching days and the ever-enjoyable experience of chasing down beaconing devices on a network as the token made its way downstream. The physical click as a network card lit up the port on an MAU (or MSAU for the traditionalists of the Multi-Station Access Unit). Those nifty little tokens flew around the physical and virtual ring at 4 or 8 Mbps which felt like a jet car compared to the BNC serial networking before it. The late 90s brought switching and 16 Mbps with a protocol battleground laid out, to be won over by the Ethernet adoption at 10/100 Mbps and a much lower cost.

IBM PS/2



Enterprise computing needed enterprise computers. The price tag on an IBM PS/2 (aka Personal System 2) was steep, but the easy to replace parts and enterprise support agreements with many IBM-centric shops (aka Big Blue customers) were swimming in stacks of the IBM PS/2 systems. You also remember the Micro Channel architecture and that popping feeling as you pushed in the floppy drive ejector. Classic days!

Autoexec.bat and Config.sys files



```
File Edit Search View Options Help
C:\AUTOEXEC.BAT
Echo off
SET TEMP=C:\TEMP
SET TMP=C:\TEMP
SET BLASTER=A220 I5 D1 T4
SET SOUND=C:\SOUND16
C:\SOUND16\audiot /b
PATH=C:\WIN\C:\WIN\COMMAND;E:\FOREGA\QBACKUP
PATH =%PATH%;D:\BATCH;C:\SOUND16;E:\ARACHE
LE C:\WIN\COMMAND\ESCODEX.EXE /d:msdos01
keyb de,,C:\WIN\COMMAND\keyboard.sys
```

Gamers will know this challenge especially well. Should we load into high memory? What drivers can I put before the OS and game? What can I strip out of the boot system to let things run faster? This was also the first appearance of MS-DOS getting a login screen as each nerdy sysadmin mastered the science of ASCII art to welcome their users to the freshly booted system.

Novell certifications were hugely valued



VMware wasn't even on the radar (only to be launched in 1998), and Microsoft was still finding its feet in the certification space with NT4 only making a slow transition to Windows 2000. Novell dominated the file server and identify management (+1 for NDS, always) environment of many enterprises. Even the small business servers were often running Novell NetWare and the badge of honour was the length of uptime you could have on a server. Administrators flocked to the CNA (Certified Novell Administrator) exam and then upped their game with the challenging and more rare CNE (Certified Network Engineer).

Brain dumps for certifications

Certifications were becoming a hot commodity, and so were brain dumps. These were online repositories of "hypothetical" questions (often word-for-word renditions) and multiple choice answers with the right one chosen for you. This led to the addition of some strongly-worded NDA statements as you sat for a technology certification, and also the familiar 8.5×11 whiteboard and box of kleenexes in every exam cubicle. Some say the kleenexes were for the tears of sysadmins who didn't make the cut, rather than to wipe the dry-erase board.

"Paper" MCSEs

As Microsoft Certified Professionals poured out of certification centres at an incredible rate, we also saw a large number of tech pros leaning forward to the full MCSE (Microsoft Certified Systems Engineer). The issue among the tech community was that certification schools and boot camps were popping up like wildfire and producing dozens to hundreds of MCSE recipients in a matter of days using tools like brain dumps and teaching 100% towards test materials. This led to the industry (mostly old CNE techies) labeling these as "paper" MCSEs which meant they only got the cert but lacked any real experience.

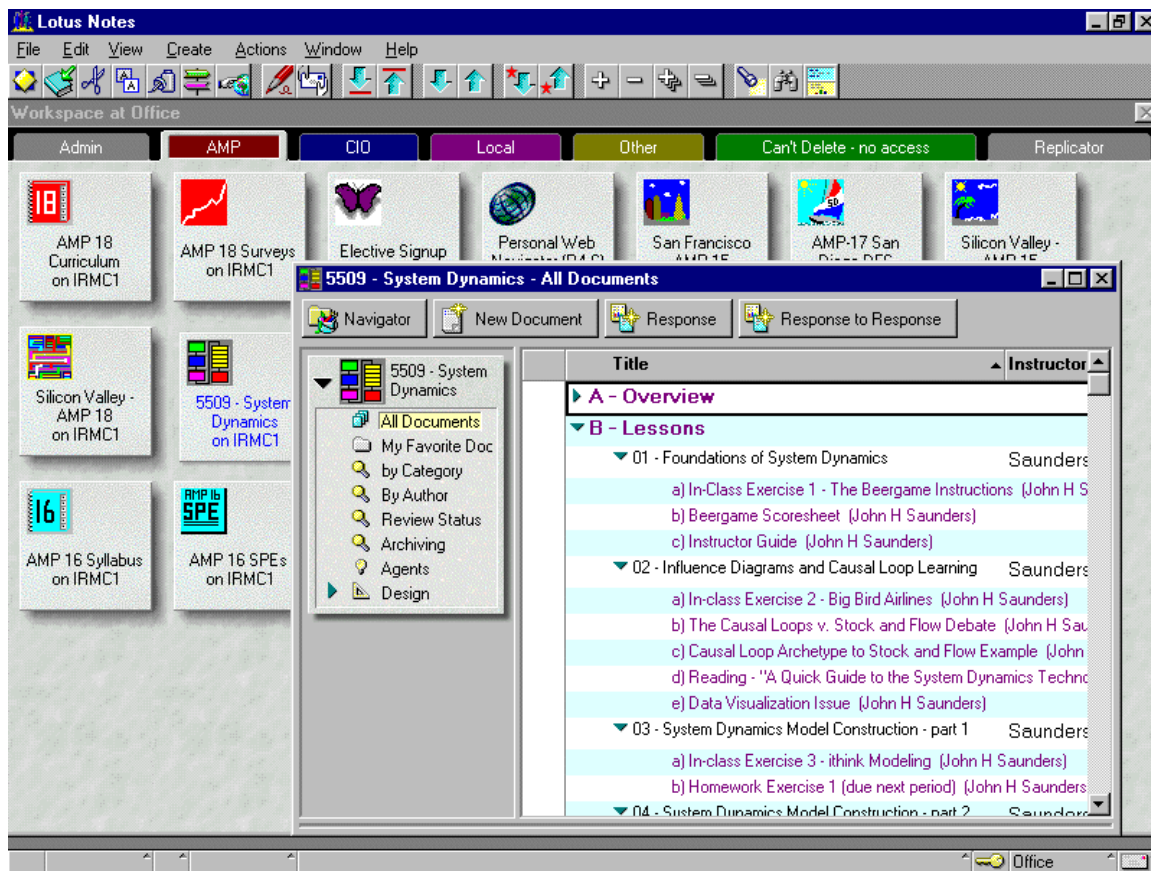
Laplink Cables



Life comes at you fast in networking. At the same time, there was nothing more popular in the help desk and desktop support office as a lap link cable. For those who enjoyed the slow, reliable, parallel-to-parallel port goodness to transfer data between machines, Laplink software and associated crossover cables were your friend. By the 90s, these became rare, but I'm betting you held onto your cables a little longer than we all should have just because of nostalgia.

Lotus Notes and Novell GroupWise

Not only was I a Certified Lotus Notes Administrator, and Certified Lotus Notes Developer, but I was one of a handful of GroupWise-Certified Novell admins around town.



We were in the heart of a war over the de facto email standard, and productivity software was the new panacea. Lotus Notes possessed integrated email, directory services, Internet email, and applications (known as databases...much to the chagrin of legit DBAs). If it wasn't for wide

proliferation of HTML applications and rapidly adopted internet standards, you'd probably still be logging into a Lotus Notes client today.

Java takes over the development world

Write Once; Run Anywhere. That was the tagline and mantra of the Java developer. Write once; run slowly, and probably on the wrong version, anywhere, was the tagline and mantra of sysadmins. Java was fighting the Microsoft suites for dominance in the enterprise application market. Little did we know that the often despised (by sysadmins at least) language which was rapidly evolving, would continue it's growth AND still leave a wide door open to .NET and the Microsoft tools.

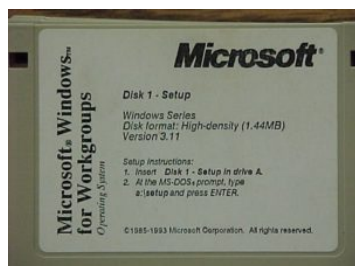
[READ WHY THEY DECIDED TO CALL IT JAVA HERE](#)

Tower servers



The only pizza boxes in a 90s data centre were the empty ones left by sysadmins after an overnight upgrade of Windows NT or a Novell Server. While the Unix folks logged into their Sun Microsystems servers remotely, the rest of the Wintel kids were piling up server towers by the dozens along two-tiered shelves in every server room. Rack servers became more prolific in the later 90s, and we bid good riddance to the mini-towers of every shape and size.

Installing Windows 3.1 from multiple 3.5" diskettes



Many operating systems were so large that they spanned multiple diskettes. Those pre-CD days were not fun. I'm guessing that you've held onto a stack of 3.5" diskettes, carefully sequenced for an installation. This also led to the fun of having 40 of 41 diskettes and not being able to install. Disk 31 was like the proverbial sock eaten by a clothes dryer for a sysadmin.

Zip drives



Hey, it was pretty cool to her able to cram 100 MB on a single piece of physical media. As you inserted the almost Nintendo cartridge shaped cassettes into the Zip drive and it clicked and whirred, you smiled your nerdiest smile knowing you could fit 70 floppy diskettes on a single Zip drive. You felt like a storage king...until the CD-R and CD-RW became easily affordable, and much faster...which didn't take long.



PCMCIA cards

Laptop peripherals were as awful as you could imagine. Being expensive, difficult to carry, or just unavailable was the biggest challenge of the enterprise laptop user. How could you have a modem, an ethernet card, and a sound card in that Toshiba laptop?! Easy! Carry a stack of PCMCIA (or PC Cards) in your laptop bag to swap out as needed. Ahhh the smell of early standards.

The magical sound that indicated a 56k connection

Forget the pain of not having Google Fibre. How about crossing your fingers that you get the full rocket-like speed of 56k versus 33.6 which was triggered by that telltale sound in the midst of a modem handshake. The next generation of Internet users will only know the pain of 3G versus LTE and believe that Edge is abysmal (which is nearly 4 times the bandwidth of a 56k connection).

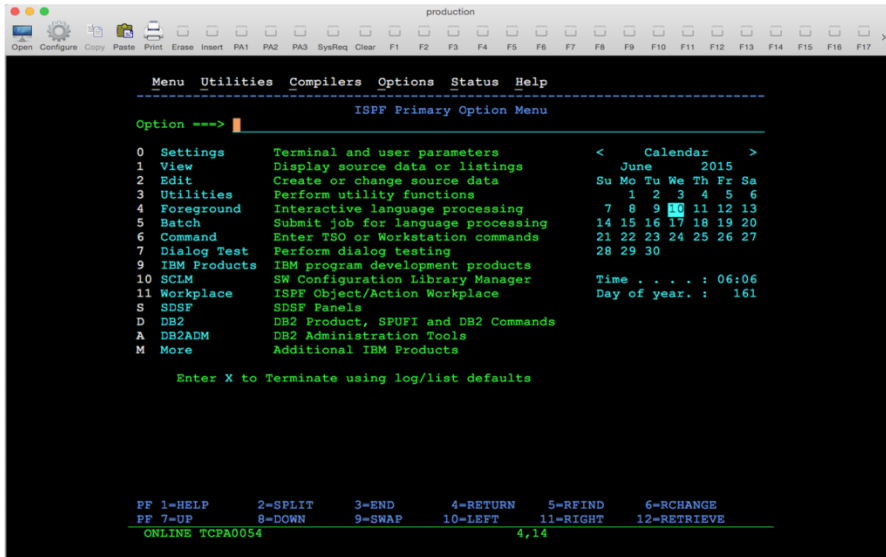
T1 lines



High speed networks in the data center began with T1, Fractional T1, and if we were lucky, upgraded to a T3. With a T1 being around 1500\$ per month, it's hard to imagine that a 1.544 Mbps line can even compare against today's 49.99\$ per month for 5 Mbps residential internet connections.

3270/5250 emulators

The mainframe is the heart of most of our financial, insurance, and retail businesses. As we moved to the next generation of distributed computing and Windows desktop operating systems, we needed to install emulators for the clunky (yet strangely reliable) 3270 and 5250 terminals. Long live the green screen!

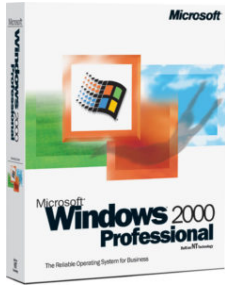


The Internet was new

CompuServe and AOL were the leaders in delivering this magical new thing called the Internet. Curating your experience and filling your mail with physical CDs to win over as many clients in the pay-per-hour fight for subscriber dominance. Ironically, by the end of the 90s, AOL would buy CompuServe and most of us were far beyond the initial stages of Internet access. Google would launch in 1998 and change things greatly.



All Software being named 2000



We knew that the decade was closing out. It also caused a sudden and unnecessary urge for software makers to appear leading edge by naming everything 2000. Windows 2000 is probably the most memorable of these. As we look back on products that released late or didn't last beyond that landmark year, the idea of attaching a release year to the product name is definitely a fairly bad idea. Somehow Microsoft is one of the only ones who holds onto this nomenclature to this day.

Celebrating NYE 12/31/1999 in a data center

Nobody had any idea how the landmark New Year's Eve would be spent a decade earlier. Little did we know that the lustre and shine of a career in IT would also mean toasting your fellow sysadmin with a bottle of Baby Duck in plastic cups at the office during a short 15 minute break watching the countdown to midnight. This led to worldwide checks of patches and fixes which were the result of a decade of work after someone, somewhere doing what we all do in IT...going to production without gathering requirements first. Besides, who would have thought we would need more than two digit years, right?!