End of life support for Windows 9x and Windows NT operating systems

Release date: May 27th, 2003
Updated: September 30th, 2003
Updated: December 1st, 2003
Updated: January 12th, 2004
Update: November 15th, 2004
Update: February 4th, 2005
Revision: 1.7

This is due diligence notification that on August 1st, 2003 the Virginia Tech Active Directory (known as Hokies or the VT AD) will no longer guarantee support for authentication and authorization requests from the following Microsoft operating systems clients and servers:

- Windows 95 released Aug 1995 (seven+ years old)
- Windows 98 released Jun 1998 (four+ years old)
- Windows ME released Dec 2000 (two+ years old)
- Windows NT Workstation released Jun 1996 (six+ years old)
- Windows NT Server released Jul 1996 (six+ years old)

There are several reasons why this is occurring.

01) Microsoft will soon no longer support these OSes even in extended mode
   b. I.e., Windows NT workstation support from MS ends June 30, 2003

02) Critical security hotfixes are no longer being made available for these OSes

03) It has become unnecessary and costly to maintain your own workgroup or NT domain with the advent of Central Services (http://www.centralservices.vt.edu) and University Services (http://selfservice.w2k.vt.edu)

04) There are several viable options now available to migrate from these old OSes
   b. XP : http://www.microsoft.com/windowsxp/default.asp

05) Upgrade to Windows 2000 Professional is currently FREE for faculty & Staff (offer ends June 30, 2003)
   a. See My VT->My services->Faculty and Staff software

06) Requirements to increase the security, stability and scalability of the VT AD requires fundamental security changes which will disallow backwards compatibility with these aged OSes
Proposed timeline for programmatic EOL and hardening of the VT AD

[Task 1]
Date: August 1st, 2003
- All NT 4.0 trusts with the VT AD will be discontinued
- Additional restrictions for anonymous connections will be increased to its maximum security level (No access without explicit anonymous permissions)

A “test Wednesday” on July 9th, 2003 will occur which will allow administrators to test their systems and services with these increased security settings in production

Testing has been completed. All steps complete for this task.

[Task 1.5]
Date: August 4th, 2004
- Grandfathered user accounts that fail basic password complexity tests will be reset after a two week notification period (approx. 125 accounts)

Testing has been completed. All steps complete for this task.

[Task 2]
Date: February 1st, 2005
- LAN Manager authentication level “LM” will be disabled
- LM hashing will be disabled so new accounts and reset passwords will no longer contain the hash
- Grandfathered user accounts that fail basic password complexity tests will be reset after a two week notification period (approx. 125 accounts)

A “test Sunday” on October 12th, 2003 (from 7am to 5pm) will occur which will allow administrators to test their systems and services with these increased security settings in production. A “test Wednesday” on October 15th, 2003 (from 7am to 11am) will occur as well to test during real world authentication and authorization loads.

Testing has been completed. All steps complete for this task.

[Task 3]
Date: TBD
- Requirements to sign client/server communication will be enabled
- Requirements to sign and encrypt channel data will be enabled

A “test Sunday” on <date TBD> will occur which will allow administrators to test their systems and services with these increased security settings in production.

No steps complete for this task

[Task 4]
Date: TBD
- LAN manager authentication level “NTLM” will be disabled
- Requirements to use strong session keys will be enabled

A “test Sunday” on <date TBD> will occur which will allow administrators to test their systems and services with these increased security settings in production.

No steps complete for this task
How to participate in testing

See http://www.answers.vt.edu/ask4help/ad_min/vtkb2208.htm

MIG suggests that you use the timeline as milestones to have completed any required testing of your systems and services. Apart from the internal testing, we also offer external testing resources for your department’s use.

Please direct questions or comments to:
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