

Windows Enterprise Announcement

Jan 14, 2014 – WINDC4 Unavailable Jan 21, 2014 for Upgrade (Important RHEL5, RHEL6, NFS4, and AFS Implications)

ATTENTION: WINDC4 is the LAST domain controller running Windows Server 2008. On January 21, 2014 this domain controller will be upgraded. As a result, on January 21, 2014:

- **AFS users getting credentials via Active Directory will no longer be able to acquire AFS tokens.**
- **RHEL5 machines joined to Active Directory will no longer be able to access NFS4 file systems (e.g. Cyfiles, OrgFiles).**
- **RHEL6 systems require changes to the encryption types listed in /etc/krb5.conf (see below)**

On January 21, 2014 ITS will complete the conversion of the domain controllers to Windows Server 2008 R2. On that day WINDC4, which is the LAST domain controller running Windows Server 2008, will be upgraded to Windows Server 2008 R2.

During the upgrade the domain controller will not be available for several hours starting about 8:00 AM. Most users will not notice the outage of one domain controller. Windows domain member systems will automatically fail over to one of the four remaining domain controllers. However, if you have systems that will not fail over and are pointed to a domain controller being upgraded you will want to change that prior to the upgrade date.

IMPORTANT RHEL5 and NFS4 IMPLICATIONS

Mounting and accessing the NFS4 file systems (e.g. CyFiles, OrgFiles) on RHEL5 boxes joined to ISU Active Directory is not supported by domain controllers running Windows Server 2008 R2. Apparently RHEL5 systems request a ticket with the encryption type no longer supported by the Kerberos servers running on Server 2008 R2. To the best of our knowledge, the only solution to this issue is to upgrade to RHEL6.

IMPORTANT RHEL6 IMPLICATIONS

The AES encryption types need to be added to the /etc/krb5.conf to allow the encryption types supported by the new Kerberos servers running on Server 2008 R2:

```
default_tgs_etypes = aes256-cts aes128-cts rc4-hmac des-cbc-crc des-cbc-md5
default_tkt_etypes = aes256-cts aes128-cts rc4-hmac des-cbc-crc des-cbc-md5
permitted_etypes = aes256-cts aes128-cts rc4-hmac des-cbc-crc des-cbc-md5
```

IMPORTANT AFS IMPLICATIONS

These upgrades have important implications if you use AFS and get credentials from the Windows Domain Controllers. See the Announcements section in the meeting notes for the April 12 WinAdmin meeting here:

<http://www.tech.its.iastate.edu/windows/admin/WinAdmin.2013.04.12.pdf>

QUESTIONS/COMMENTS/CONCERNS

ITS will continue to provide updated announcements on this upgrade via the CCSG, WinAdmin, and MacOSX mailing lists and Critical Event Log as the appropriate.

Questions/comments/concerns can be directed to the Network Infrastructure, Authorization & Directory Services group at niads@iastate.edu