CPTR 427 2009 Lab #13 Name

File Permissions and File Maintenance

## Read about

* Permissions (File/Folder/Share)
  + 2008: <http://technet.microsoft.com/en-us/library/cc731677.aspx>   
     <http://technet.microsoft.com/en-us/library/cc754178.aspx>
  + 2003 (yet still valid for 2008): <http://www.mcmcse.com/microsoft/guides/ntfs_and_share_permissions.shtml>
* ICacls / Xcacls
  + 2008: <http://technet.microsoft.com/en-us/library/cc753525.aspx>
  + 2003: <http://support.microsoft.com/kb/825751>
* Support Tools / Remote Server Administration Tools (RSAT in 2008)
  + 2003: <http://support.microsoft.com/kb/892777>
  + 2008:   
    <http://www.microsoft.com/downloads/details.aspx?FamilyId=9FF6E897-23CE-4A36-B7FC-D52065DE9960&displaylang=en>   
    <http://blogs.technet.com/windowsserver/archive/2009/02/11/remote-server-administration-tools-for-windows-7-beta-released.aspx>
* What’s New for Access Control in Windows 2008
  + <http://technet.microsoft.com/en-us/library/cc731677.aspx>
* Windows 2003 Resource kit: <http://www.microsoft.com/downloads/details.aspx?FamilyID=9D467A69-57FF-4AE7-96EE-B18C4790CFFD&displaylang=en>

## Questions for later review (don’t turn these into me, just peruse them for the exam)

1. In what cases (copying, moving etc.) and under what conditions does a file:
   1. keep its permissions ?
   2. inherit permissions from the target directory?
2. What is the difference between permissions for files, folders and shares (there is a nice table that shows the answer to this one)?
3. What are ACLs and ACEs?
4. What tools in Windows 2008 allow you to script the change of:
   1. ACLs/ACEs?
   2. Ownership?
5. How do you determine storage space usage by owner? (BTW, after much searching, I don’t think this is available for 2008 – but I belief the 2003 resource kit toolkit tool, will work in 2008)

## Lab Installs

* Resource kit or equivalent tools needed.
* Verify that the RSAT (support tools should be installed by default) are installed and install them if necessary.
* Check that Icacls.exe is installed.

## Demos (Get these checked off by me during lab and I’ll enter your grade – no need to turn anything in)

1. Create two folders in windows with different permissions and Demo the difference between moving and copying a file between the two folders.
2. Give a scripting example that gives the top 10 largest files by users stored on c:\. Run it and show the results.
3. Demo a simple script that changes the ownership on a file (not to the user running the script).
4. Demo a change of the acl on a file to deny administrator using Icacls.exe.
5. Design a script to detect and change files not accessible by the administrator to allow access by administrator to the folder. Write the script using pseudocode at a level that could be easily changed to a program. E.g. If you think there needs to be a loop in your code, then you should specify the loop. You may use a statement that says: “parse *filename* from current line.” Or “For each line in the log file” Of course you could just write the script.
6. Where can you find an overview, remarks, syntax examples and related tools for the diskuse.exe tool? Give the command or shortcut information.