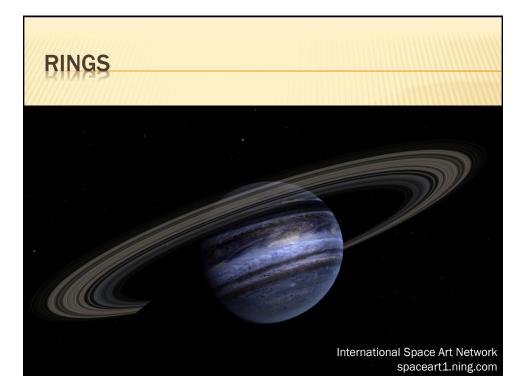
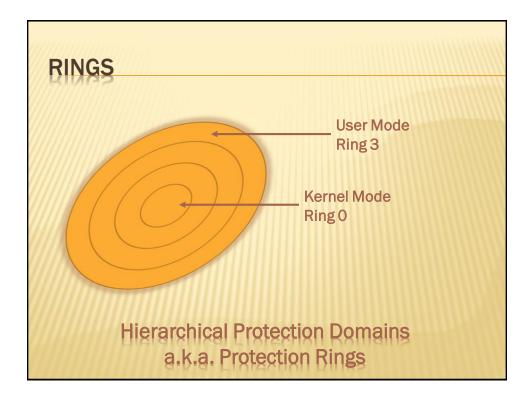
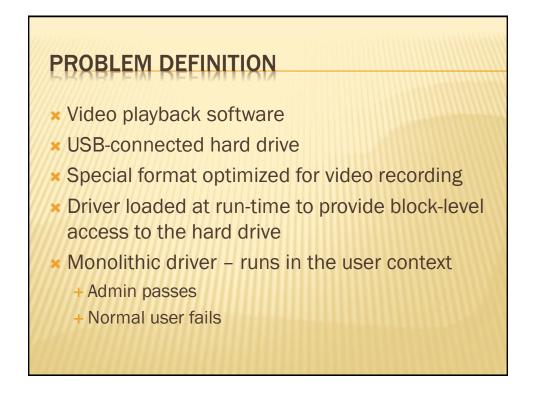


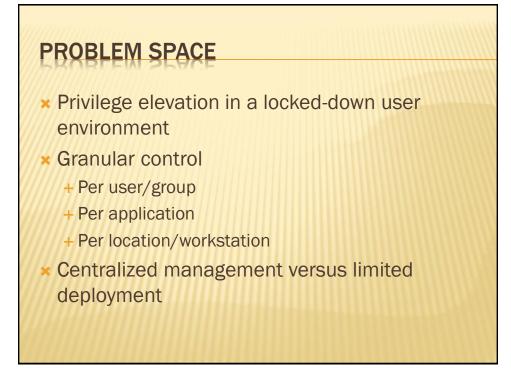
Bob McCoy Radio Engineering Industries, Inc. bmccoy@radioeng.com

"NO SUDO FOR YOU!"



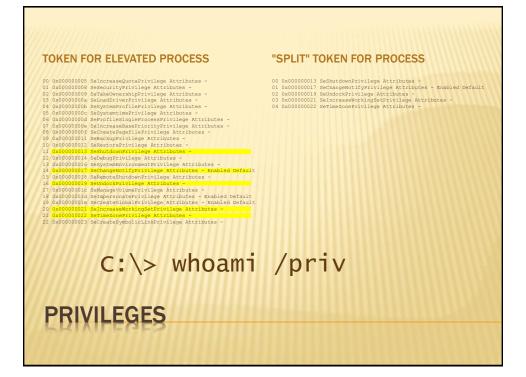






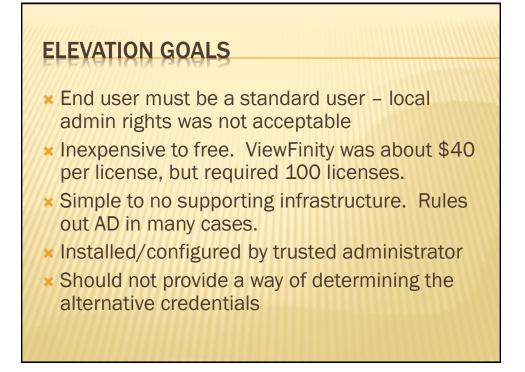
SPLIT TOKEN

- × Implemented starting in Vista
- Part of User Account Control (UAC)
- Basic Idea: Even if you are an administrator on your computer, your programs normally run without administrative privileges





ELEVATE.EXE * Johannes Passing's Blog * "Launch elevated processes from the command line" http://jpassing.com/2007/12/08/launch-elevated-processes-from-the-command-line/ * Still prompts for credentials if not an admin



ALTERNATIVE CREDENTIALS IN POWERSHELL

- × Credential parameter
- × Limited to Get-WMIObject in V1
- * Greatly expanded in later versions
- × Run a cmdlet with alternate credentials

	/indows PowerShell
oo:\> \$c	= Get-Credential
let Get-Cr oly values dential	edential at command pipeline position for the following parameters:
ws PowerShell (Credential Request
r your credentials	
r name:	😰 🚽 👻 📖 🖌
sword:	

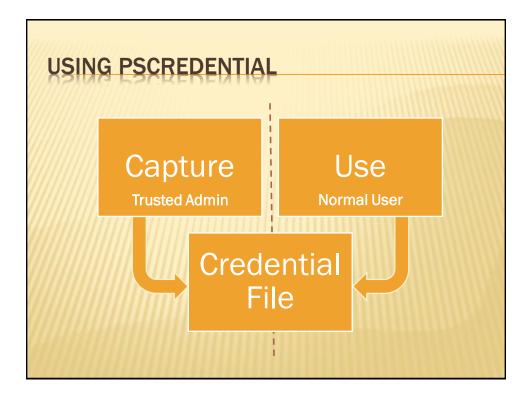
SECURESTRING CLASS

× .NET Framework 2.0

* "Represents text that should be kept confidential. The text is encrypted for privacy when being used, and deleted from computer memory when no longer needed. This class cannot be inherited."

SECURESTRING CMDLETS

- ConvertFrom-SecureString
- ConvertTo-SecureString
- Read-Host –AsSecureString
- × Get-Credential





SAMPLE CODE – CREATING

\$KeyFile = "\$HOME\documents\necert.txt"
\$Credential = Get-Credential -Message "Enter credentials to
launch program:"
\$credential.UserName | Set-Content \$KeyFile
\$credential.Password | ConvertFrom-SecureString |
 Add-Content \$KeyFile
"# \$env:USERDOMAIN\\$env:USERNAME on \$env:COMPUTERNAME " +
 (Get-Date).ToString() | Add-Content \$KeyFile

SAMPLE CODE – USING

\$KeyFile = "\$HOME\documents\necert.txt"
if (! (Test-Path -Path \$KeyFile))
 { throw "Missing password file: `"\$KeyFile`"" }
(\$User, \$PasswordStr, \$comment) = Get-Content \$KeyFile`
 -ErrorAction Stop
\$password = \$PasswordStr | ConvertTo-SecureString
\$credential = New-Object`
System.Management.Automation.PsCredential(\$user,\$password)
Start-Process -FilePath C:\Windows\Elevate.exe`
 -ArgumentList "cmd.exe" -Credential \$credential

