

The golden age of hacking

Windows Reconnaissance Google hacking

MS Windows

http://sv.wikipedia.org/wiki/Microsoft_Windows

- Sure, the Almighty could create the world in six days. He didn't have to deal with any legacy infrastructure!
 - Comment from a system developer trying to support backward compability [©]
- NT and DEC (Digital Equipment Corp.) VMS heritage – OS/2 & IBM



Microkernel

- A near-minimal kernel which provides the *mechanisms* needed to implement an OS
 - This includes low-level address space management, thread management, and inter-process communication (IPC)
- Operating-system services are provided by usermode servers which are granted high privileges. These include device drivers, protocol stacks, file systems and user-interface code
 - Pros: better achieves least privilege, can tolerate failures/errors in device drivers, etc.
 - Cons: performance, failure in key OS services still brings down the system

- The Windows NT operating system family (including XP, Vista/7)
- A layered "microkernel"
- API Communication
- User mode
 - Integral subsystems
 - Environment subsystems
- Kernel mode
 - Executive subsystem
 - HAL



Windows 8 and HTML5

- XAML (Extensible Application Markup Language) is a declarative markup language which defines the view/design of an application
 - As applied to the .NET Framework programming model, XAML simplifies creating a UI for a .NET Framework and Silverlight (SL) applications together with Windows Presentation Foundation (WPF)
 - WinRT An object oriented replacement for Win32



Kernel cont., domains before AD

- Integral subsystems
 - Win32 APIs which provides system calls into the kernel
 - Security functions as AD
- Executive subsystems
 - Security reference monitor
 - Check permissions of files and access to kernel mode etc.
 - Object manager
 - Manages all objects (OIDs) in the system as files, pipes etc.

http://en.wikipedia.org/wiki/Architecture_of_Windows_NT

- AD (Active Directory)
 - All domain controllers are authoritative
- Domain vs. Workgroup
- PDC vs. BDC (master and servant)
- The Security Account Manager (SAM)



LSA (Local Security Authority)

http://en.wikipedia.org/wiki/Local_Security_Authority_Subsystem_Service

- Local Security Authority Subsystem Service (LSASS)
 - Verifies users logging on to a Windows computer or server
 - Handles password changes, and creates access tokens
 - Writes to the Windows Security Log
- SAM registry database store hashed passwords etc.
 - Dumped live with tools like Cain (also dead file), fgdump etc.
 - Two passwords was stored if password was < 15 chars
 - Account name, Relative ID (RID), LM & NT hash, optional fields...
 - LM hash
 - Adjust password to 14 chars, convert all to uppercase and pad with zeros, then split the "fixed length" password to two 7-byte strings
 - These vaules create two 64-bit DES keys which encrypts "KGS!@#\$%" and creates two chipertext values that are the concatenated "hash"
 - http://en.wikipedia.org/wiki/Lm_hash
 - NT(LM) hash
 - Hashed 3 times with 128 bit MD4
 - There is no salt in none of the algorithms which is standard in UNIX
 - http://en.wikipedia.org/wiki/Salt_%28cryptography%29

Accounts and groups

- Default accounts
 - Administrator (RID=500)
 - Not possible to delete or to be locked out from log in
 - Guest
 - Not possible to delete, should be disabled
 - Securing account strategies
 - Rename, decoys, remove description strings etc.
 - Additional admin account, disable original and/or rename account
- Groups are usually used for access control
 - Pre-Win2k/AD there were only global and local groups
 - Resource access were usually: user > global > local group
 - Not possible to do: global > global or local > local group
- Default groups and other special groups
 - A number of groups, run **lusrmgr.msc** to handle user/group settings or Microsoft Management Console - mmc.exe
 - SYSTEM is the "holy grail" special user/group (not possible to logon and hidden in GUI)

Privilege control

- Rights and abilities
 - Depends on group and settings in Local Security Policy
 - Secpol.msc



Account policies

Local Security Policy	Tan Cal				
File Action View Help					
🗢 🄿 🚺 🖬 🗟 🖬					
 Security Settings Account Policies Password Policy Account Lockout Policy Local Policies Windows Firewall with Advanced Security Network List Manager Policies Public Key Policies Software Restriction Policies Application Control Policies 	Policy Policy Advanced Security Policies Policies Policies Policies Policies Policies	0 p 42 0 d 0 d quirements Dia	ecurity Setting passwords remembered days days characters sabled sabled		
IP Security Policies on Local C 🚡 Local Security Policies on Local C	ecurity Policy				y Setting oplicable id logon attempts oplicable
Advanced Audit Policy Config File Act	ion View Help 🖄 🗊 🗟 📝 🖬				
	y Settings	Policy		Security	Setting
▷ □ □ □ □ □ □ □ □ □ □	count Policies Password Policy Account Lockout Policy al Policies Indows Firewall with Advanced Security twork List Manager Policies olic Key Policies tware Restriction Policies plication Control Policies Security Policies on Local Computer vanced Audit Policy Configuration	题 Account loci 题 Account loci		0 invalid	logon attempts

Trust and auditing

- There were four possible trusts models in Windows pre 2k
 - No trust
 - Complete trust
 - Master domain
 - Multiple master domain
 - They are based on challenge-response
- Three types of logging
 - System, security (auditing) and application logging
 - Auditing is off by default



- Misses some important things for serious security logging
- Stores logs in "%systemroot%\system32\ + config\" (XP) + winevt\Logs (Vista/7)
 - Appevent.evt Contains a log of application usage
 - Secevent.evt Records activities that have security implications such as logins
 - Sysevent.evt Notes system events such as shutdowns
 - Vista/7/8 have a binary XML format (.evtx) and many many more logs
 - Tools as dumpel is useful for parsing the old logs
 - http://computer.forensikblog.de/en/2010/02/evtx_parser_1_0_2.html

Challenge - Response authentication as CHAP (Challenge Handshake Authentication Protocol)



Uses a varied shared secret authentication system without revealing the actual secret The response is valid once and for a short time, new authentications can be done anytime

- The client makes a login attempt (not included in the state chart)
- The server generates a random number (challenge: 123456789 as an example) and encrypts the number along with the user's password as the key (which gives 84736595, the expected response)
- The server sends the challenge number to the client, as shown
- The client must be able to generate a valid response number from the challenge number using the same encryption algorithm with a valid password
- The client sends the response back to the server and if the encrypted numbers (not passwords) match each other, the client is logged in.

File/folder permissions

- CREATOR_OWNER
 - Every object has an owner, ownership means everything
- FAT offer no access control
- NTFS
 - Support 64 bit addressing, 255-characters
 - Four standard sets
 - No Access, Read, Change, Full Control
 - Special permissions (NTFS 4)
 - No Access, True Read, Execute, Write, Delete, Change Permissions and Take Ownership
 - Always use principle of least privileges when giving access permission
 - Limit the access from group Everyone
 - Access rights is quite complex and bewildering, even worse in Win2k+

Shares and permissions

net use \\<IP-address or hostname>\<share name> "passwd" /user:"username"

- Remote access depends on both the NTFS and the share permission working together in accordance to least access rule
- There are/have been flaws with default access permissions in \windows dirs
- Historically for files in \windows\repair
 - Security related files
 - Spare SAM

Select this object type:	
Users, Groups, or Built-in security prince	zipals Object Types.
From this location:	
NB-2PYF1Q1	Locations
Enter the object names to select (<u>exan</u>	ples):
	Check Name:

Permissions for My Document	ts	X				
Security						
Object name: C:\Users\hjo\Do	cuments					
Group or user names:						
SYSTEM						
kip (NB-2PYF1Q1\hjo)						
Administrators (NB-2PYF1Q1	\Administrators)					
	A <u>d</u> d	<u>R</u> emove				
Permissions for SYSTEM	Allow	Deny				
Full control	1					
Modify	1					
Read & execute	1					
List folder contents	1					
Read	1					
Write	1					
Learn about access control and permissions						
ОК	Cancel					

SMB/CIFS and null sessions

- NetBEUI and NetBIOS
- net use \\<IP-address>\IPC\$ "" /u:"" – net view \\<IP-address>
- Works with pre-vista
- Net* Win32 API
- Enum
- DumpSec
- User2sid
- Sid2user
- GetAcct
- Winfo
- Winfingerprint
- Etc.

Input Options	- Scan Options			
O IP Range O IP List		tive Directory	C WMI API	<u>S</u> can
 Single Host C Neighborhood IP Address: 	Vin32 OS Version	Users	🔽 Patch Level	E <u>x</u> it
192.168.1.103	▼ Null IPC\$ Session	s 🔽 Services	MAC Address	li Clear
	▼ NetBIOS Shares	🔽 Disks	Sessions	<u></u>
	Date and Time	Groups	🔽 Event Log	<u>Sa</u> ve
	▼ Ping Host(s)	✓ RPC Bindings	Show Errors	<u>H</u> elp
	▼ Traceroute Host	bindings	211010	
General Options				
Realtek RTL8139 C+ Fast Ethernet N	IIC - Packet Sched 💌	TCP Port	scan Range:	1 1024
Timeout for TCP/UDP/ICMP/SNMP:	5		scan Range:	1 1024
Retries: 3 Max Conne	ections: 1024	_	ommunity String:	public

Applications SMB

NetBeui

PPP, 802 x

Token Ring, Ethernet, Serial

NetBIOS

on

IPX.

NetBIOS

on

TCP/IP

NetBIOS API

Windows 2000+

- Difference Windows 2K+ vs. older Windows
 - Lots of new functions and security features
 - Size, resource usage and complexity...++
 - MS implementation of Kerberos
 - MS implementation of IPSec
 - L2TP, EFS, SSPI etc. ...
 - Native and mixed (compability) mode
 - Active Directory
 - Trust
 - Tree or forest
 - All authoritative
 - No PDC/BDC

– LDAP



Lightweight Directory Access Protocol

- LDAP is a binary application protocol for accessing and maintaining distributed directory information services over an IP network
- Directory services may provide any organized set of records, often with a hierarchical structure, such as a corporate electronic mail directory
- The protocol accesses LDAP directories, which follow the X.500 model
- A client starts an LDAP session (which may use TLS) by connecting to an LDAP server, called a Directory System Agent (DSA), by default on TCP port 389
 - A directory is a tree of directory entries
 - An entry consists of a set of attributes
 - An attribute has a name (an attribute type or attribute description) and one or more values
 - Each entry has a unique identifier: its Distinguished Name (DN)

dn: cn=John Doe,dc=example,dc=com cn: John Doe givenName: John sn: Doe telephoneNumber: +1 888 555 6789 telephoneNumber: +1 888 555 1232 mail: john@example.com manager: cn=Barbara Doe,dc=example,dc=com objectClass: inetOrgPerson objectClass: organizationalPerson objectClass: person objectClass: top

Example entry represented in LDAP Data Interchange Format (LDIF)

Active Directory in Windows 2000+

- A directory services DB
- Manage almost everything from one place!
- Uses DNS/DDNS
- Password hashfile
 - ntds.nit
- Correct installation and permissions are critical for secure and working AD!
- Client cache credentials
- MBSA (Microsoft Baseline Security Analyzer)

http://technet.microsoft.com/en-us/security/cc184924.aspx



Kerberos Authentication - 1



Kerberos Authentication – 2

- 1. The user's credentials are entered on the client, which submits a request to the KDC to access the TGS using the AS Exchange protocol. The request includes encrypted proof of the user's identity.
- 2. The KDC receives the request, looks up the master key of the user in Active Directory directory service, and decrypts the identify information contained in the request. If the user's identity is verified, the KDC responds by granting the user a TGT and a session key using the AS Exchange protocol.
- 3. The client then sends the KDC a TGS request containing the TGT granted earlier and requesting access to some service on a target server using the TGS Exchange protocol.
- 4. The KDC receives the request, authenticates the user, and responds by granting the user a ticket and a session key for accessing the target server using the TGS Exchange protocol.
- 5. The client then sends the target server a request containing the ticket granted earlier using the CS Exchange protocol. The server authenticates the ticket, replies with a session key, and the client can now access the server.

Windows 2000+ cont.

- Accounts and groups as pre-w2k mostly...
 - Default accounts are administrator and guest
 - Power Users is a new default group with high privilege (backward comp.)
 - Universal is a new addition to local and global groups
 - In native mode global groups can be member of other global groups
- Organizational units (OUs)
 - Privilege control etc.
 - Objects into directories
- Rights management
 - No built-in abilities
 - Inheritance of rights





Windows 2000+ cont.

- RunAs (as sudo http://en.wikipedia.org/wiki/Sudo)
 - GUI version, right click on exe...
- Group Policy objects
 - Start > run > mmc > File > add/remove snap-in. Choose Group policy
 - > click add then finish/ok
- Auditing
 - Nine event categories ++
- Access control permissions
 - Standard (NTFS-5)
 - Full Control
 - Modify
 - Read & execute
 - Read
 - Write
 - List contents (folders)
 - Special permissions
 - 14 different perms.



📸 Console 1 - [Console Root\Local Computer Policy\Computer Configuration\Administrative Templates\Windows Compone

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http://www.windowsitlibrary.com/Content/592/toc.html

EFS (Encrypting File System)

http://www.answers.com/topic/encrypting-file-system?cat=technology

- EFS works by encrypting a file with a random bulk symmetric key, also known as the File Encryption Key (FEK)
- The FEK is then encrypted with a public key that is associated with the user who encrypted the file, and this encrypted FEK is stored in the \$EFS alternate data stream of the encrypted file
- To decrypt the file, the EFS component driver uses the private key that matches the EFS digital certificate to decrypt the symmetric key that is stored in the \$EFS stream
- The EFS component driver then uses the symmetric key (FEK) to decrypt the file
- Transparent for user





Windows Vista security

- Symantec research objective analysis very good read!
 - http://www.symantec.com/business/theme.jsp?themeid=vista_research
 - 3 core categories



Windsows wrap up

- Security in Windows is anything but easy!
 - Backward compability
 - Example: avoid LM Passwords
 - Complex
- IIS (Internet Information Service)
 - Large number of security threats over the years
- Security templates and hardening guides
 - www.cisecurity.org, www.sans.org, www.securityforum.org
- Vista/7 brings: security evolution not revolution
 - Most of tech in XP SP2 but disabled, now enabled and enhanced
 - Attackers have already moved on to apps on top of OS
 - Vista/7 user mode services
 - Paper: http://go.microsoft.com/fwlink/?LinkId=71280
 - Limiting access to services by user applications
 - "Hardening" services to limit the ability of a compromised service to damage a system
 - Restricted Network Access

Windows 8 security



- 8 new security functions in Windows 8 and server 2012
- Secure Boot UEFI (Unified Extensible Firmware Interface) is a modern BIOS which only allow signed software in the boot sequence
- 2. Early Launch Anti-Malware AV agent start before malware
- 3. Smartscreen keep track of (dangerous) web sites and files "reputation"
- 4. Dynamic access control more fine grained
- 5. PC Refresh och Reset reinstall of OS keeping user data or full reset
- 6. Appcontainer isolate applications in sandboxes with permission control
- 7. Windows Defender the new MS Security Essentials
- 8. Pictures as passwords make a certain pattern on the picture
- Read more: Åtta viktiga funktioner > http://computersweden.idg.se/2.2683/1.490829/atta-viktiga-funktioner
- SMEP (Supervisor Mode Execution Prevention) kernel buffer overflow protection for the ones with a Intel Ivy Bridge CPU
- Read more: http://blog.ptsecurity.com/2012/09/intel-smep-overview-and-partial-bypass.html

Reconnaissance

- Social engineering
 - Password stealing
 - Kevin Mitnick The art of Deception
 - Caller ID spoofing
 - In-house phone number
 - Reverse social engineering
- Physical break-in
- Dumpster Diving
- Defense
 - Awareness
 - Policies
 - Locking equipment and encryption
 - Destroying (or erasing) equipment correct



Google hacking (applies for other search engines as well) - 4 important elements

- Google bots
 - Crawls all websites on Internet every 24h!
- Google index
 - THE INDEX, 8 billion (2006) web sites/pages, now 45+ billion
 - http://www.worldwidewebsize.com/
 - Algorithm PageRank
 - http://infolab.stanford.edu/~backrub/google.html
- Google cache
 - − Copy of Internet (not all ☺), large docs indexed (first 101kB)
 - Text but not images or code are cached?
- Google API:s (Google code)
 - https://developers.google.com/
 - My Google Maps API examples: www.du.se/~hjo/lbs
 - Using Google API needs a Google API key
 - https://code.google.com/apis/console





- Books are written in this subject
 - Google Hacking for Penetration Testers by Johnny Long etc.
- Google Advanced search (graphical)
- Number of results is max 1000
 - Not enough for data mining
- Important tips
 - Searches are always case insensitive
 - When using directive as "site:" do not use white space between directive and search term
 - Max 10 search terms (including directive)



http://www.google.com/help/operators.html

site:[domain]

- Only search on this domain, site:.se is also possible

link:[web page]

- Shows all sites linked to a given web page

- intitle:[term(s)]
 - Finds pages with given search title
- related:[site]
 - Similar pages to given search page
- cache:[page url] (highlighted search terms)
 - Display a page from the Google cache
 - Example: cache:http://users.du.se/~hjo/ hans jones
- inurl:[term(s)]
 - Restrict the results to documents containing that word in the url

http://www.google.com/help/operators.html

- filetype:[suffix]
 - Only search files of given type
- rphonebook:[name and city/state]
 - Only US residents just now
- bphonebook:[name and city/state]
 - Only US business just now
- phonebook:[name and city/state]
 - Both above combined
- Literal matches ("search terms")
 - Search is done on whole string in given order
- Not (-term)
 - Filters out web pages with given term
- Plus (+term)
 - Filters in web pages with given term that Google normally will filter out, +the, +how...

Google hacking 4 - nasty examples

- site:swedbank.se filetype:xls account -filetype:pdf
- kickstart filetype:cfg
 - Finds Redhat Linux unattended installations which may contain intresting info as password hashes!
- mysql dump filetype:sql
 - This search reveals all the exposed MySQL backups taken on a system which have been subjected (indexed) to Google, often these dumps contain juicy information like usernames, passwords, emails, credit card numbers etc.
- There are hundreds of interesting searches that can be made, and most of them are (were?) listed in Johnny Longs website: http://johnny.ihackstuff.com/
- Alternate resources: http://jwebnet.net/advancedgooglesearch.html
- http://safecomputing.umich.edu/events/download/brashars_sumit_05.pdf
- Johnny's presentation from Blackhat 2005
 - http://www.blackhat.com/presentations/bh-usa-05/bh-us-05-long.pdf

Google API allows for interesting automated recon software tools to be created as: http://www.sensepost.com/labs/tools/pentest/wikto

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Other recon sites

- The organizations web sites
 - Contact info, myriad of clues about tech, buisiness partners, open jobs etc.
- Newsgroups
 - Usenet, Yahoo and Google groups, ..., etc.
- Social media
 - Social networking, blogs, microblogging, ..., etc.
- Use other search engines

http://www.searchengineshowdown.com/features/

- Netcraft.com
 - Internet exploration/monitoring and data mining





Web hacking

- Email harvesting from web pages is an effective way of finding out possible emails (and possibly usernames) belonging to an organization
 - [server] /pen-test/python/goog-mail.py <domain-name>
 - When done harvesting, back tracing a specific user can reveal specific job titles as IT-admins etc.
- Finding vulnerable web application servers
 - Search for new vulnerabilities using Google yourself
 - Use GHDB (Google Hacking Database), Johhny L.
 - http://www.hackersforcharity.org/ghdb/
- Scraping (filter out vulnerabilities)
 - Compare search engines against each other
 - Yahoo, Bing, ...
- Wayback machine, the Internet archive
 - Cached webpages over the years
 - http://www.archive.org

Paterva Maltego

Maltego v2.0.2CE	#10878.010 #010 0010 0	
<u>File Edit View Navigate</u>	Tools Window Help	
0 🖻 💾 👪	Speed/Accuracy + Results	
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? Infrastructure	Mining View Centrality View Edge Weighted View 🏦 🏡 🏦 🔀	
🛞 AS		-
DNS Name	100 0 🕅 13	
😡 Domain	retomeier	
🚨 IP Address		
T Netblock		
🕞 Website		
Pen Testing		
🔜 Banner 🛛 📠 Port		
🔆 Service 🧉 Vuln		
🗐 Webdir 💄 Webtitle		Properties D X
9 Personal		P Entity properties
Email Address		Entity type AffiliationTwitter
4 Location		Value Reto Meier Weight 100
Person		Unique identifier [ke retomeier
Phone Number	100 	Network [key] Twitter
Phrase	Also check http://androidpt.com. RT @retomeier1_ot @retomeie	Profile URL http://twitter.com/retomeier
-		
		Detail View
	neier.kirchberg@gmail.com RT @HeathrowAirport: T5 has been partially evacuat 1 👔 0 1	RT @HeathrowAirport
	@retorneier Any idea why? @retorne	Source partially evacuat (Twit)
		Transform To Twitter Affiliation [Convert]
	1 100	Result Reto Meier (AffiliationTwitter)
	@retomeier #androidPL OMG! Button! (https://market @retomei	Gen. date 2011-3-10 14:54
		Author info
		Icon
	100	
		Profile retorneier (Reto Meier)
Output - Transform execution		T ×
	Ls [show Search Engine results]" completed with 0 results	× ^
- No URLs were	e found on this node	
	r: External links found' cancelled by user. r: Email addresses found' cancelled by user.	
	r: small addresses found' cancelled by user. iends of this person" completed with 12 results	
1		

What is Maltego?



- Maltego is an information gathering tool that allows you to visually see relationships. Maltego allows you to enumerate network and domain information like
 - Domain Names, Whois Information, DNS Names
 - Netblocks, IP Addresses
- Maltego also allows you to enumerate People information like
 - Email addresses associated with a person's name
 - Web sites associated with a person's name
 - Phone numbers associated with a person's name
 - Social groups that are associated with a person's name
 - Companies and organizations associated with a person's name
- Maltego also allows you to
 - Do simple verification of email addresses
 - Search blogs for tags and phrases
 - Identify incoming links for websites
 - Extract metadata from files from target domains

Maltego



- All the information gathering "processes" that Maltego does are called "Transforms," and unfortunately not all of them are documented. But different transforms query different types of information. The full list is here:
 - http://ctas.paterva.com/view/Category:Transforms

M	anage Transfor	ms		-				X
	🚺 Set Manager.		🚳 New Local Transfo	orm 22 Clone Transform Remove Transform(ve Transform(s)	
•	Application CE TAS		isplay Name [using Search Engine]	- Dhan	Input type eNumber	Output type		Enabled
0		To Tweets [Sear		Phone Phone		🗱 Ema		
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0	CE TAS	To friends of this	person		ationTwitter	M Affil	iationTwitter	~
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	Owner: <none></none>		HTTP tim	neout (milliseconds)	40	000		
	Location relevan	ce: global						
Maximum inputs: 0								
	Maximum outputs	s: 1000						
	Description:		orm will search Twitter for nd shows relevant entries					
Transform ready and active.								
Discover Transforms Save Cancel								

Maltego CaseFile



- Maltegos little brother which targets 'offline' analysts (manual input)
- A visual intelligence application that can be used to determine the relationships and real world links between hundreds of different types of information
- CaseFile can be used for the information gathering, analytics and intelligence phases of almost all types of investigates, from IT Security, Law enforcement and any data driven work



Paterva/Maltego resources



- Maltego Part I Intro and Personal Recon
 - http://www.ethicalhacker.net/content/view/202/24/
- Maltego Part II Infrastructure Enumeration
 - http://www.ethicalhacker.net/content/view/251/24/
- Data Mining Tony Hawk's Twitter Hunt with Maltego
 - http://www.securityg33k.com/blog/?p=180
- Maltego: Transform & Correlate
 - https://www.issa.org/Library/Journals/2009/December/McReetoolsmith.pdf
- Maltego
 - Well documented now!
 - http://www.paterva.com



Defenses

- Policies for content of web site
- Policies for employees use of Internet, i.e. web, newsgroups, blogs, social media etc.
- Monitor whats "out there"
- Have Google (or other search engine) remove certain info (not index or cache it) from your site
 - Add a robots.txt file in web root dir
 - Use certain meta tags that tell well behaved crawlers to not index your web page
 - Order the Google web bot crawlers to recrawl you
 - Double edged sword since it is readable
 - More info
 - http://www.robotstxt.org
 - http://www.free-seo-news.com/all-about-robots-txt.htm

Password reset/recovery with physical access in Windows

Google search "reset password windows"

12 ways how to reset the Windows administrator password – Windows 7, Vista, Windows XP http://4sysops.com/archives/three-ways-to-reset-a-windows-vistaadmin-password/

Forgot your Windows NT/2k/XP/Vista/Win7 admin password?

http://pogostick.net/~pnh/ntpasswd/

Offline NT Password & Registry Editor

I Forgot My Administrator Password!

http://pubs.logicalexpressions.com/Pub0009/LPMArticle.asp?ID=305