Yegor Hanov EECS710, Fall 2012 Homework Assignment 10/23/12

Assignment 2: Core Windows 7 Services

I reviewed the list of active services running on my laptop during normal operation. The list [1] contains 94 services covering a wide variety of functionality for core OS operation, networking functions, security, and a number of services installed by various applications and are not part of the default Windows set. For example, the following services all belong to different third party applications that I installed - Apple Mobile Device, Bonjour Service, Cam Monitor, iPod Service, Office Software Protection Platform, VAIO Care Performance Service, VAIO Event Service, etc.

According to articles [2,3,4] that I used to research the functionality of these services, I can get the list trimmed down to 38 services without sacrificing wireless connection services, security services or the firewall. Considering that I use a laptop computer and majority of my activities require Internet access, I would consider network and security services essential to my needs.

The author of article [2] goes on to suggest trimming the list down to 28 services by shutting down wireless and security services, which would work for a computer that is a standalone machine and does not require access to a network or the Internet.

Application Experience	This service checks a Microsoft maintained database for known problems with popular programs and automatically enables workarounds, either at first installation (using UAC) or at application launch.
Application Information	This new service for Windows Vista works in conjunction with User Account Control and the User Profile Service to limit access to applications desiring full administrator rights.
Background Intelligent Transfer	This service is used to transfer asynchronous data via HTTP 1.1 servers. BITS "continues" a download when you log back in after you log off or shutdown the system during a download. You may require this service for some, Windows Live Messenger, Windows Media Player or future .NET or Live functions.
Base Filtering Engine	The Base Filtering Engine (BFE) is a service that manages firewall and Internet Protocol security (IPsec) policies and implements user mode filtering. Stopping or disabling the BFE service will significantly reduce the security of the system. It will also result in unpredictable behavior in IPsec management and firewall applications.
CNG Key Isolation	The CNG key isolation service is hosted in the LSA process. The service provides key process

Windows 7 Core Services:

isolation to private keys and associated cryptographic operations as required by the Common Criteria. The service stores and uses long-lived keys in a secure process complying with Common Criteria requirements.COM+ Event SystemSupports System Event Notification Service (SENS), which provides automatic distribution of events to subscribing Component Object Model (COM) components. If the service is stopped, SENS will close and will not be able to provide logon and logoff notifications. If this service is disabled, any services that explicitly depend on it will fail to start.Computer BrowserMaintains an updated list of computers on the network and supplies this list to computers designated as browsers. If this service is stopped, this list will not be updated or maintained. If this service is disabled, any services that explicitly depend on it will fail to start.Cryptographic ServicesProvides three management services: Catalog Database Service, which confirms the signatures of Windows files and allows new programs to be installed; Protected Root Service, which adds and removes Trusted Root Certificates from Windows Update and enable scenarios such as SSL. If this service is stopped, these management services will not function properly. If this service is disabled, any services that explicitly depend on it will fail to start.DCOM Server Process LauncherThe DCOMLAUNCH service launches COM and DCOM servers in response to object activation requests. If this service is disabled, any services that explicitly depend on it will fail to start.
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properly. It is strongly recommended that you
have the DCOMLAUNCH service running.
DHCP Client Registers and updates IP addresses and DNS
records for this computer. If this service is
stopped, this computer will not receive dynamic
IP addresses and DNS updates. If this service is
disabled, any services that explicitly depend on it
will fail to start.
DNS Client The DNS Client service (dnscache) caches
Domain Name System (DNS) names and
registers the full computer name for this
computer. If the service is stopped, DNS names
will continue to be resolved. However, the results
of DNS name queries will not be cached and the
computer's name will not be registered. If the
service is disabled, any services that explicitly

	depend on it will fail to start.
Group Policy Client Multimedia Class Scheduler	The service is responsible for applying settings configured by administrators for the computer and users through the Group Policy component. If the service is stopped or disabled, the settings will not be applied and applications and components will not be manageable through Group Policy. Any components or applications that depend on the Group Policy component might not be functional if the service is stopped or disabled. Enables relative prioritization of work based on
	system-wide task priorities. This is intended mainly for multimedia applications. If this service is stopped, individual tasks resort to their default priority.
Network Location Awareness	Collects and stores configuration information for the network and notifies programs when this information is modified. If this service is stopped, configuration information might be unavailable. If this service is disabled, any services that explicitly depend on it will fail to start.
Network Store Interface Service	This service delivers network notifications (e.g. interface addition/deleting etc) to user mode clients. Stopping this service will cause loss of network connectivity. If this service is disabled, any other services that explicitly depend on this service will fail to start.
Plug and Play	Enables a computer to recognize and adapt to hardware changes with little or no user input. Stopping or disabling this service will result in system instability.
Power	New to Windows 7. Manages power policy and power policy notification delivery.
Remote Procedure Call	The RPCSS service is the Service Control Manager for COM and DCOM servers. It performs object activations requests, object exporter resolutions and distributed garbage collection for COM and DCOM servers. If this service is stopped or disabled, programs using COM or DCOM will not function properly. It is strongly recommended that you have the RPCSS service running.
RPC Endpoint Mapper	Resolves RPC interfaces identifiers to transport endpoints. If this service is stopped or disabled, programs using Remote Procedure Call (RPC) services will not function properly.
Security Accounts Manager	The startup of this service signals other services that the Security Accounts Manager (SAM) is ready to accept requests. Disabling this service will prevent other services in the system from being notified when the SAM is ready, which may in turn cause those services to fail to start

	correctly. This service should not be disabled.
Security Center	The WSCSVC (Windows Security Center) service monitors and reports security health settings on the computer. The health settings include firewall (on/off), antivirus (on/off/out of date), antispyware (on/off/out of date), Windows Update (automatically/manually download and install updates), User Account Control (on/off), and Internet settings (recommended/not recommended). The service provides COM APIs for independent software vendors to register and record the state of their products to the Security Center service.
Shell Hardware Detection	Provides notifications for AutoPlay hardware events.
Software Protection	Enables the download, installation and enforcement of digital licenses for Windows and Windows applications. If the service is disabled, the operating system and licensed applications may run in a notification mode. It is strongly recommended that you not disable the Software Protection service.
SSDP Discovery	Discovers networked devices and services that use the SSDP discovery protocol, such as UPnP devices. Also announces SSDP devices and services running on the local computer. If this service is stopped, SSDP-based devices will not be discovered. If this service is disabled, any services that explicitly depend on it will fail to start.
System Event Notification Service	Monitors system events and notifies subscribers to COM+ Event System of these events.
Task Scheduler	Enables a user to configure and schedule automated tasks on this computer. The service also hosts multiple Windows system-critical tasks. If this service is stopped or disabled, these tasks will not be run at their scheduled times. If this service is disabled, any services that explicitly depend on it will fail to start.
TCP/IP NetBIOS Helper	Provides support for the NetBIOS over TCP/IP (NetBT) service and NetBIOS name resolution for clients on the network, therefore enabling users to share files, print, and log on to the network. If this service is stopped, these functions might be unavailable. If this service is disabled, any services that explicitly depend on it will fail to start.
User Profile Service	This service is responsible for loading and unloading user profiles. If this service is stopped or disabled, users will no longer be able to successfully logon or logoff, applications may have problems getting to users' data, and components registered to receive profile event

events from remote sources that support WS- Management protocol. This includes Windows Vista event logs, hardware and IPMI-enabled event sources. The service stores forwarded events in a local Event Log. If this service is stopped or disabled event subscriptions cannot be accepted. Windows Event Log This service manages events and event logs. It subports logging events, querying events, subscribing to events, archiving event logs, and managing event metadata. It can display events in both XML and plain text format. Stopping this service may compromise security and reliability of the system. Windows Firewall Windows Firewall helps protect your computer by preventing unauthorized users from gaining access to your computer through the Internet or a network. Windows Management Instrumentation Provides a common interface and object model to access management information about operating system, devices, applications and services. If this service is disabled, any services that explicitly depend on it will fail to start. Windows Update Enables the detection, download, and installatio of updates for Windows and other programs. If this service is disabled, users of this computer will not be able to use Windows Update or its automatic updating feature, and programs will not be able to use Windows Update Agent (WUA) API. Workstation Creates and maintains client network connections will be unavailable. If this service is stopped, these connections will be unavailable. If this service is		notifications will not receive them.
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by preventing unauthorized users from gaining access to your computer through the Internet or a network.Windows Management InstrumentationProvides a common interface and object model to access management information about operating system, devices, applications and services. If this service is stopped, most Windows-based software will not function properly. If this service is disabled, any services that explicitly depend on it will fail to start.Windows UpdateEnables the detection, download, and installatio of updates for Windows and other programs. If this service is disabled, users of this computer will not be able to use Windows Update or its automatic updating feature, and programs will not be able to use the Windows Update Agent (WUA) API.WorkstationCreates and maintains client network connections to remote servers using the SMB protocol. If this service is stopped, these connections will be unavailable. If this service is disabled, any services that explicitly depend on	Windows Event Log	supports logging events, querying events, subscribing to events, archiving event logs, and managing event metadata. It can display events in both XML and plain text format. Stopping this service may compromise security and reliability of the system.
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Windows UpdateEnables the detection, download, and installatio of updates for Windows and other programs. If this service is disabled, users of this computer will not be able to use Windows Update or its automatic updating feature, and programs will not be able to use the Windows Update Agent (WUA) API.WorkstationCreates and maintains client network connections to remote servers using the SMB protocol. If this service is stopped, these connections will be unavailable. If this service is disabled, any services that explicitly depend on	Windows Management Instrumentation	to access management information about operating system, devices, applications and services. If this service is stopped, most Windows-based software will not function properly. If this service is disabled, any services
Workstation Creates and maintains client network connections to remote servers using the SMB protocol. If this service is stopped, these connections will be unavailable. If this service is disabled, any services that explicitly depend on	Windows Update	Enables the detection, download, and installation of updates for Windows and other programs. If this service is disabled, users of this computer will not be able to use Windows Update or its automatic updating feature, and programs will not be able to use the Windows Update Agent
	Workstation	Creates and maintains client network connections to remote servers using the SMB protocol. If this service is stopped, these connections will be unavailable. If this service is disabled, any services that explicitly depend on it

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<u>A</u> ction <u>V</u> iew <u>H</u> el	p					
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vices (Local)	Services (Local)					
Sele	ct an item to view its description.	Name	Description	Status	Startup Type	Log On As
		🔍 Apple Mobile Device	Provides t	Started	Automatic	Local System
		Application Experience	Processes	Started	Manual	Local System
		Application Information	Facilitates	Started	Manual	Local System
		Background Intelligent Transfer	Transfers f	Started	Automatic (Delayed Start)	Local System
		Base Filtering Engine	The Base F	Started	Automatic	Local Service
		Bonjour Service	Enables ha	Started	Automatic	Local System
		CamMonitor	Monitor t	Started	Automatic (Delayed Start)	Local System
		CNG Key Isolation	The CNG	Started	Manual	Local System
		COM+ Event System	Supports S	Started	Automatic	Local Service
		Computer Browser	Maintains	Started	Manual	Local System
		Cryptographic Services	Provides f	Started	Automatic	Network Service
		COM Server Process Launcher	The DCO	Started	Automatic	Local System
		🔍 Desktop Window Manager Sessi	Provides D	Started	Automatic	Local System
		C DHCP Client	Registers a	Started	Automatic	Local Service
		Diagnostic Policy Service	The Diagn	Started	Automatic	Local Service
		Carling Diagnostic Service Host	The Diagn	Started	Manual	Local Service
		Diagnostic System Host	The Diagn	Started	Manual	Local System
		Distributed Link Tracking Client	Maintains	Started	Automatic	Local System
		Client	The DNS	Started	Automatic	Network Service
		Extensible Authentication Protocol	The Extens	Started	Manual	Local System
		Function Discovery Provider Host	The FDPH	Started	Manual	Local Service
		Sunction Discovery Resource Pu	Publishes	Started	Automatic	Local Service
		Group Policy Client	The servic	Started	Automatic	Local System
		🔍 HomeGroup Listener	Makes loc	Started	Manual	Local System
		C HomoGroup Browider	Dorforme	Charland	Manual	Local Soprico

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Services (Local)	Services (Local)						
	Power	Name	Description	Status	Startup Type	Log On As	
		🔍 HomeGroup Provider	Performs	Started	Manual	Local Service	
	Description:	ConMan R		Started	Automatic	Local System	
	Manages power policy and power policy notification delivery.	KE and AuthIP IPsec Keving Mo	The IKEEX	Started	Automatic	Local System	
	policy notification derivery.	Intel(R) Management and Securit	Allows ap	Started	Automatic (Delayed Start)	Local System	
		Intel(R) Management and Securit	Intel(R) M	Started	Automatic (Delayed Start)	Local System	
		Intel(R) PROSet/Wireless Event Log		Started	Automatic	Local System	
		(Intel(R) PROSet/Wireless Registry	2	Started	Automatic	Local System	
		🔍 Intel(R) Rapid Storage Technology	Provides s	Started	Automatic (Delayed Start)	Local System	
		🔍 IP Helper	Provides t	Started	Automatic	Local System	
		iPod Service	iPod hard	Started	Manual	Local System	
		IPsec Policy Agent	Internet Pr	Started	Manual	Network Service	
		Kicrosoft Antimalware Service	Helps prot	Started	Automatic	Local System	
		Microsoft Network Inspection	Helps gua	Started	Manual	Local Service	
		Network Connections	Manages	Started	Manual	Local System	
		Network List Service	Identifies t	Started	Manual	Local Service	
		Network Location Awareness	Collects a	Started	Automatic	Network Service	
		Ketwork Store Interface Service	This servic	Started	Automatic	Local Service	
		Qasis2Service	DDNI Oasi	Started	Automatic (Delayed Start)	Local System	
		Office Software Protection Platfo	Office Soft	Started	Manual	Network Service	
		Peer Name Resolution Protocol	Enables se	Started	Manual	Local Service	
		Peer Networking Grouping	Enables m	Started	Manual	Local Service	
		Reer Networking Identity Manager	Provides i	Started	Manual	Local Service	
		Riug and Play	Enables a	Started	Automatic	Local System	
		RMBDeviceInfoProvider	Enables P	Started	Automatic	Local System	
	Extended Standard	Bon VID Pur Enumerator	The DeD V	Charland	Automatic (Dalawad Start)	Local System	

File Action View							
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🎑 Services (Local)	Services (Local)						
	Windows Audio	Name	Description	Status	Startup Type	Log On As	(
	Stop the service Restart the service Description: Manages audio for Windows-based programs. If this service is stopped, audio devices and effects will not function properly. If this service is disabled, any services that explicitly depend on it will fail to start	PhP-X IP Bus Enumerator Power Print Spooler Remote Procedure Call (RPC) CaPC Endpoint Mapper SeaPort Security Accounts Manager Security Accounts Manager Security Center Sever Shell Hardware Detection SSDP Discovery Superfetch System Event Notification Service Task Scheduler TCP/IP NetBIOS Helper Themes UPnP Device Host User Profile Service VAIO Event Service VAIO Event Service VICService VITual Disk VSNService VTsechUSSBocketService	The PnP-X Manages Loads files The RPCS Resolves R Enables th The startu The startu Provides n Discovers Maintains Maintains Monitors s Provides a Provides s Provides s Provides t Provides t Provides Provides	Started Started Started Started Started Started Started Started Started Started Started	Automatic (Delayed Start) Automatic Automatic Automatic Automatic Automatic Automatic Automatic Automatic Automatic Automatic Manual Automatic Automatic Automatic Automatic Automatic Automatic Automatic Automatic Automatic Automatic Automatic Manual Automatic Manual Manual Manual Automatic Manual Automatic Manual Automatic Manual Automatic Manual Automatic Manual Automatic Manual Automatic Manual Automatic Manual Automatic	Local System Local System Network Service Network Service Local System Local System	
	Extended (Standard /	👸 VIIAgont	A goot for	Ctartad	Manual	Local Sustem	[

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Services (Local)	Services (Local)						
v	TechUSBSocketService	Name	Description	Status	Startup Type	Log On As	
		🔍 VUAgent	Agent for	Started	Manual	Local System	
	top the service	Windows Audio	Manages	Started	Automatic	Local Service	
	<u>ause</u> the service estart the service	🔍 Windows Audio Endpoint Builder	Manages	Started	Automatic	Local System	
1	citine service	Windows Driver Foundation - Us	Manages	Started	Automatic	Local System	
		Windows Event Log	This servic	Started	Automatic	Local Service	
		Windows Firewall	Windows	Started	Automatic	Local Service	
		Windows Font Cache Service	Optimizes	Started	Automatic (Delayed Start)	Local Service	
		🔅 Windows Image Acquisition (WIA)	Provides i	Started	Automatic	Local Service	
		Windows Live ID Sign-in Assistant		Started	Automatic	Local System	
		Windows Management Instrume		Started	Automatic	Local System	
				Started	Automatic (Delayed Start)	Network Service	
		Windows Presentation Foundati	Optimizes	Started	Manual	Local Service	
		🔍 Windows Search	Provides c	Started	Manual	Local System	
		🔍 Windows Update	Enables th	Started	Automatic (Delayed Start)	Local System	
		🕼 WLAN AutoConfig	The WLA	Started	Automatic	Local System	
		Workstation	Creates an	Started	Automatic	Network Service	
		ActiveX Installer (AxInstSV)	Provides U		Manual	Local System	
		Adaptive Brightness	Monitors		Manual	Local Service	
		Application Identity	Determine		Manual	Local Service	
		Application Layer Gateway Service	Provides s		Manual	Local Service	
		ArcSoft Connect Daemon			Manual	Local System	
		ASP.NET State Service	Provides s		Manual	Network Service	
		Bing Bar Update Service	Keeps Bin		Manual	Local System	
		BitLocker Drive Encryption Service			Manual	Local System	
		Plack Loval Packup Engine Convice			Manual	Local System	

[2] <u>http://www.blackviper.com/service-configurations/black-vipers-windows-7-service-pack-1-service-configurations/</u>

- [3] http://www.blackviper.com/windows-default-services/windows-7-default-services/
- [4] <u>http://social.technet.microsoft.com/wiki/contents/articles/4484.windows-7-default-services.aspx</u>