SQL Server will not start

Problem: you install SQL Server (any edition) and the install process completes successfully. When you reboot your PC, SQL Server does not start (Figure 1).

a Sql Server Configuration Manager					×
File Action View Help					
😤 SQL Server Configuration Manager (Local)	Name	State	Start Mode	Log On As	F
SQL Server Services SQL Server Network Configuration	SQL Server Integration Services 10.0 SQL Full-text Filter Daemon Launche	Running Stopped	Automatic Other (Boot, Sy	LocalSystem	1
🗉 💂 SQL Native Client 10.0 Configuration	SQL Server (MSSQLSERVER)	Stopped	Automatic	.\CPelkje	0
	SQL Server Analysis Services (MSSQ SQL Server Reporting Services (MSS SQL Server Browser SQL Server Agent (MSSQLSERVER)	Running K Running Stopped Stopped	Automatic Automatic Other (Boot, Sy Manual	LocalSystem LocalSystem NT AUTHORITY\ LocalSystem	1 . 0 0
	<				>

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Figure 1: The SQL Server is stopped (it did not start), even though its Start Mode is set to Automatic.

Possible problem: the "log on as" user ID that you assigned to the SQL Server service needs the **Log on as a service** security property. SQL Server runs as a background job on Windows and the user ID assigned to the service must be able to start a service. A service that is started automatically when Windows starts is similar to an autostart job in a subsystem on the IBM i.

___Go to the Windows Control Panel, Administrative Tools and open the Event Viewer program.

Select the **System** event type and look through the list of events for any errors. Doubleclick on an error to show the Event Properties (Figure 2).

If you locate an event with the description "service was unable to log on as", as shown in Figure 2, your user ID does not have the log on as a service right. Continue with the steps shown in this document to assign the right.

_____If you cannot locate an error similar to that shown in Figure 2, there is probably another reason why SQL Server does not start. This document does not describe other problems or possible corrections. However, you may find that the error descriptions might help you determine the cause of the problem. **Note:** you should also examine other types of events for errors, for example, click the **Application** item under **Event Viewer**.

Event Viewer (Local)	System 34 event(s)	Event Properties	<u>?</u> 🔀
Event Viewer (Local) Application Security System Internet Explore Windows PowerShell	System 34 event(s) Type Date Tin Q Informat 6/11/2009 7:0 Q Informat 6/11/2009 6:5 Q Informat 6/11/2009 6:4 Q Inf	Event Properties e Event 1:4. Date: Shi1/2009 Source: Service Control Manager 1:2. Discription: The MSSOLSERVER service was unable to bg on as \CPelkie w 1:2. Description: The MSSOLSERVER service was unable to bg on as \CPelkie w 1:2. Description: To ensure that the service is configured property, use the Services Microsoft Management Console (MMC). 3:3. To ensure that the service is configured property, use the Services Microsoft Management Console (MMC). 3:1. For more information, see Help and Support Center at http://go.microsoft.com/Multik/events.esp. 3:1. Deta: 3:1. Deta: 3:1. Event Control M None 7035 3:1. Service Control M None 7035 3:1. Service Control M None 7022 3:1. Service Control M None 7038 3:1. Service Control M None 7038 <	

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Figure 2: Use the Event Viewer to look for any System events that are logged as errors. Examine the Error events to determine if SQL Server logged an error.

_In the Administrative Tools folder, open the Local Security Policy program.

The Local Security Settings dialog is displayed (Figure 3). Expand Local Policies and click User Rights Assignment. Double-click the Log on as a service item as shown in Figure 3.

File Action Vew Help			
← → È X 🗗 🗟 😫			
Security Settings	Policy /	Security Setting	^
Account Folicies Account Folicies Account Folicies Account Folicies Account Folicies Descript Options Public Key Policies Software Restriction Policies	Enable computer and user Benote shutdown from a re Generate security audits Impersonate a clent after Increase scheduling priority Boad and unkad device dri BLock pages in memory BLog on as a batch job	Administrators LOCAL SERVICE, NETWORK SERVICE ASPNET, SQLServerReportServerUser\$SS2008E Administrators Administrators SUPPORT_388945a0, ASPNET	
B IP Security Policies on Local Comput	Log on as a service Dog on locally Manage auditing and secur Modify firmware environm MPerform volume maintena	SYSTEM_LOCAL SERVICE_NETWORK SERVICE, Guest_Administrators_Users_Power_Users_Backup Administrators Administrators Administrators	~

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Figure 3: In the Local Security Settings program, expand Local Policies, User Rights Assignment and select Log on as a service.

In the **Log on as service Properties** dialog (Figure 4), examine the list of user IDs that are allowed to log on as a service. If your user ID is not included in the list, click the **Add User or Group** button.

og on as a service	Properties ?
Local Security Setting	Explain This Setting
Log on as	a service
ASPNET LOCAL SERVICE NETWOPK SERVIC SOLServer/2005SOL SOLServer/DTSUse SOLServer/MSASUL SOLServer/MSSOLL SOLServer/MSSOLL SOLServer/SOLAger SYSTEM	E BrowserUse \$SS2008ENT-WXP r\$SS2008ENT-WXP\$MSSOLSERVER ser\$SS2008ENT-WXP\$MSSOLSERVER Jser\$SS2008ENT-WXP\$MSSOLSERVER arverUser\$SS2008ENT-WXP\$MSSOLSERVER ntUser\$SS2008ENT-WXP\$MSSOLSERVER
	OK Cancel Apply

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Figure 4: If your user ID is not listed, click the Add User or Group button.

_____In the **Select Users or Groups** dialog (Figure 5), click the **Advanced** button.

elect Users or Groups	2
Select this objecttype:	
Users or Built-in security principals	Object Types
From this location:	
SS2008ENT-WXP	Locations
Enter the object names to select (<u>examples</u>):	
1	Check Name:
Advanced	Cancel

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Figure 5: In the Select Users or Groups, click the Advanced button.

The **Select Users or Groups** dialog expands so that it looks like Figure 6. Click the **Find Now** button.

	Object Types
om this location:	
S2008ENT-WXP	 Locations
Common Queries	
Name: Starts with	Columns
Description Starts with	Find Now
Disabled accouns	Stop
Non expiring password	
Days since last logor.	
	K Connel
	Cancel
me (RDN) In Folder	

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Figure 6: Click the Find Now button.

_Locate your user ID in the list and click it to select it, then click the **OK** button (Figure 7).

select Users o	r Groups	? 🛽
Select this object	ttype:	
Users or Built-in	security principals	Object Types
From this location	in:	
SS2008ENT-W	XP	Locations
Common Quer	ies	
Name:	Starts with	Columns
Description	Starts with	Find Now
Disabled	accouns	Stop
Non expir	ing password	
Days since l	sst logor	Š
		OK Cincel
Name (RDN)	In Folder	
Administra	SS2008ENT-WXP	
ASPNET	SS2008ENT-WXP	
Authentica		
BATCH		
CPelkie	SS2008ENT-WXP	
	SS2008ENT-WXP	
CREATO		
COLLATO		
DUIALUP		

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Figure 7: Select your user ID and click the OK button.

You should now see your user ID in the list of users (Figure 8). Click the **OK** button to add your user ID as a user that has the **Log on a service** right.

Object Types.
Object Types.
Locations
Check Names
OK - Cancel

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Figure 8: Click the OK button to finalize setting your user ID with the Log in as a service right.

_____Close all of the dialog windows and restart your PC.

____After restarting your PC, use the SQL Server Configuration Manager (Figure 1) to determine if SQL Server has started.