

In this training module, you learn about managing the size of your file system. You also learn about actions to take before and after you reboot Tivoli[®] Workload Scheduler version 8.5.1.

	IBM
Stop and start procedures	
To stop Tivoli Workload Scheduler and WebSphere®, perform these steps:	
 Stop the WebSphere application server: 	
cd <twshome></twshome>	
/tws_env.sh	
conman "stopappserver; wait"	
Stop the engine and all of the processes that support the engine:	
cd <twshome></twshome>	
/tws_env.sh	
conman "stop;wait"	
conman "shut;wait"	
- Stop $DB2^{\circledast} \setminus\!$	
Stopping an instance (Linux [®] , UNIX [®])	
http://publib.boulder.ibm.com/infocenter/db2luw/v9/index.jsp?topic=/com.ibm.db2.udb.admin.doc	/doc/t0004897.htm
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You can automatically stop and start processes for Tivoli Workload Scheduler before and after you reboot. You can place this function into your RC scripts at startup. Because of the new application server process, you must perform an additional step to stop and start Tivoli Workload Scheduler for WebSphere and DB2 or Oracle. You must make sure to include them in your start and stop procedures.

First, you must stop WebSphere processes. Stop the application server using a **conman** "**stopappserver;wait**" command.

Next, stop and shut down Tivoli Workload Scheduler using a **conman "stop;wait"** and then a **conman "shut;wait"**.

Then, stop DB2.

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Stop and start procedures, continued	
After you restart, you perform these tasks:	
Start DB2	
Start WebSphere:	
cd <twshome></twshome>	
conman "startappserver;wait"	
Start TWS:	
cd <twshome></twshome>	
./StartUp	
conman "start"	
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Before restarting Tivoli Workload Scheduler, restart DB2. Next, start WebSphere. Go to the Tivoli Workload Scheduler home directory, enter **conman**, and perform a "startappserver;wait." After that is complete, go to the Tivoli Workload Scheduler startup and perform a conman "start" to see the rest of your processes.



Temporary and other directory files linked to Tivoli Workload Scheduler can affect the program. These files include the production control file, also known as the Symphony file. When you visit the web site shown on the slide, you find information about items to check in your environment.

You can also find information about items that you can use to clean your environment. These items include log files that are associated with Tivoli Workload Scheduler and the operating systems.



The schedlog directory is the old Symphony file. This directory can have up to 255 schedlogs. Keeping stored data for no more than 30 days is a good practice.

The standard list directory is the directory where all daily logs are kept, from the Tivoli Workload Scheduler merge log to your job logs. Thirty days of data are recommended while archiving the rest.

The audit directory, if auditing is turned on, can create large files that can affect performance.

In a Windows environment, there is an additional Netman standard list directory that should be regularly maintained.

Application server logs and profiles track Tivoli Workload Scheduler login and logout. They also track access to TDWC or JSE and other programs.

	IBM
Utility to calculate disk space	
calculate_disk_usage.sh	
 This UNIX script monitors available disk space for Tivoli Workload Sche sends notification when available disk space drops below defined thresh 	duler file system and nold
 Tivoli Workload Scheduler does not have a feature to self-monitor the T Scheduler file system 	ivoli Workload
 Monitoring of disk space prevents filling up a Tivoli Workload Scheduler causing Tivoli Workload Scheduler processes to terminate. This termina compromise the production file and prevent production downtime 	file system and ation can
This function was added to mon_msg.sh utility	
Technote: 1306331	
http://www-01.ibm.com/support/docview.wss?uid=swg21306331	
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The **calculate disk usage** utility monitors and sends notifications about available disk space. You can set a threshold limit defining when you want to be notified about approaching space requirements and other alerts to space issues that can compromise your Symphony file.

When you visit the web site shown on the slide, you can download a script and additional documentation for this utility.

IBM	I
Utility to monitor available space	_
mon_avail_space	
The mon_avail_space.sh is used to monitor file system available disk space	
 The script uses a user-specified variable that specifies the available space threshold limit of a file system. 	
 When available disk space for file system drops below the threshold limit, a script sends a notification. The notification states that available disk space is below the defined threshold limit. A suggestion is to increase available disk space for the file system 	
 The script determines the file system to monitor if the directory name is specified instead of the file system. 	
 The mon_avail_space.sh should be run periodically to monitor available disk space on any file system 	
Technote: 1326416	
http://www-01.ibm.com/support/docview.wss?uid=swg21326416	
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The **mon_available_space.sh** is another utility that can be set up in a job or run periodically to monitor disk space. This utility sends an email notifying you of potential space issues. If the directory fills up, it can corrupt your Symphony file. Then, you must perform a reset or manually delete message files and reinitialize Tivoli Workload Scheduler.

When you visit the web site shown on the slide, you can download a script and additional documentation for this utility.

	IBM
Utility to monitor message files	
mon_msg.sh	
Is a UNIX script that monitors size of .msg files	
• Can be configured to auto increase size of .msg files that exceed defined threshold.	
 Can send notification that threshold has been exceeded 	
 Can send these notifications by email or text message to cell phone 	
 Currently this function does not exist in Tivoli Workload Scheduler 	
Technote: 1306335	
http://www-01.ibm.com/support/docview.wss?uid=swg21306335	
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Mon_msg.sh is a UNIX script that monitors the size of .msg files. You can automatically configure this file to send emails or text messages. These messages alert administrators when size thresholds are about to be exceeded. The default threshold is 10 megabytes. Network bottlenecks and other issues can cause file sizes to grow. Growing beyond the threshold can shut down Tivoli Workload Scheduler. These email and text message alerts serve as an early warning to prevent this issue.

You can run an EVT size command to increase the size limit of the message file.

	IBM
What each line of "planman showinfo" means	
Plan date that was last added to the Symphony file	
Production plan start time of last extension: 03/06/2010 06:00 TZ CST	
 Date the added plan will end 	
Production plan end time: 03/07/2010 05:59 TZ CST	
A 48-hour plan and number of hours in the last plan extension	
Production plan time extension: 024:00	
Date and time that the last plan was extended.	
Plan last update: 03/05/2010 08:45 TZ CST Preproduction plan end time: 03/20/2010 07:00 TZ CDT	
Start time of first not complete preproduction plan job stream instance: 03/05/2010 06:00 TZ CST	
Current run number of plan	
Run number: 7	
Confirm run number: 7	
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Planman has been an available command since version 8.3. You can use this command to obtain information related to your current production plan and your Symphony file.

Planman displays creation time and end time of the Symphony file. It also displays plan extensions, the current number of plans that are running, and other information.

At the bottom of the report is a note showing the start time of the first **not complete preproduction plan**. This start time is generally based on the first time Jnex is run or the first time a plan is reset.

	IBM
Summary	
 In this presentation, you learned about processes to use before and after ye also learned about full file system procedures, schedule logs, and Tivoli Wo commands 	ou restart. You orkload Scheduler
For more information, use these sources:	
Starting a DB2 instance (Linux, UNIX):	/
http://publib.boulder.ibm.com/infocenter/db2luw/v9/index.jsp?topic=/com.ibm.db2.udb.admin.doc/doc	c/t0004676.htm
Stopping the WebSphere application server and the appservman process: http://www-01.ibm.com/support/docview.wss?uid=swg21406241	
Using the Appservman process:	
http://publib.boulder.ibm.com/infocenter/tivihelp/v3r1/index.jsp?topic=/com.ibm.tivoli.itws.doc_8.5.1/a	appserverman.htm
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In this presentation, you learned about processes to use before and after you restart. You also learned about full file system procedures, schedule logs, and Tivoli Workload Scheduler commands.



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