

This module shows the steps to create a Log File Agent instance for remote monitoring. Use the remote monitoring feature in Log File Agent to monitor a log file on a remote system.

	IBM
Assumptions	
This module assumes that you have these skills and software:	
Windows® administration skills	
Installed Log File Agent (LFA) on a Windows machine	
Installed and configured IBM Tivoli Monitoring agents	
Knowledge of IBM Tivoli <sup>®</sup> Monitoring Infrastructure	
<ul> <li>Access to a remote system (Windows, Linux<sup>®</sup>, or UNIX<sup>®</sup>) with log files</li> </ul>	
Experience with writing regular expressions	
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This module assumes that you have Windows administration skills. Log File Agent version 6.3 must be installed on a Windows system. You need to have experience with the installation and configuration of IBM Tivoli Monitoring agents and be familiar with IBM Tivoli Monitoring Infrastructure. Technical skills with writing regular expressions are beneficial.

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Objectives	_
When you complete this module, you can perform these tasks:	
Create an instance of Log File Agent to monitor a remote log file	
This example uses Log File Agent on a Windows machine to monitor a log file on a Solaris machine	
Use a configuration file to configure the Log File Agent instance	
<ul> <li>Use a format file to specify log file messages that need to be monitored</li> </ul>	
Ensure that Log File Agent is installed with application support on Tivoli Enterprise Monitoring Server and Tivoli Enterprise Portal Server	
Monitor data for the agent in Tivoli Enterprise Portal client	
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When you complete this module, you can create a new instance of Log File Agent that can be used to monitor a log file on a remote system. You will learn how to define configuration and format files in order to set up remote log file monitoring. You will configure the instance, add application support, and start monitoring the data for the agent in the Tivoli Enterprise Portal client.

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Configurati	on file and forma	t file				
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	Organize 👻 📗 Views 👻					
	Favorite Links	Name *	+ Date modified + Type	+   Size   +   Tags	<u> + </u>	
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	More 3	ts.conf	6/5/2014 12:34 AM CONF File 6/5/2014 12:37 AM FMT File	1 KB 1 KB		
	PAGE 22	100			_	
Log File Age	nt uses a configuration file t	hat contains co	nfiguration options and	filters		
This ex	xample uses the configurat	ion file ts.conf				
Log File Age	nt uses a regular expressio	n that is specifie	ed in the format file to lo	ok up messag	es in the loa file	s
					J	
<ul> <li>This ex</li> </ul>	xample uses format file ts.t	mt				

The configuration and format files are two important files that are required by any Log File Agent instance. In this example, these files reside in C:\lo.

		IBM
Configuration file		
	E ts.conf - WordPad File Edit View Insert Format Help	
	PollInterval=3 LogSource=/opt/ts/ts.log SshAuthType=PASSWORD SshHostList= <remote machines=""> SshUserid=(userid&gt; SshPassword=<password> BufferEvents=NO Pre37Server=no UmmatchLog=C:\lo\ts\ts.unmatch NumEventsToCatchUp=-1</password></remote>	
• C:\lo\ts.conf contains t	he configuration values for the Log File Agent instance	
<ul> <li>For remote log file monineed to be specified</li> <li>A value of either PA</li> <li>In this example, PA</li> </ul>	itoring, the SshAuthType parameter determines which other configuration ASSWORD or PUBLICKEY needs to be specified SSWORD was specified	parameters
<ul> <li>The LogSources param</li> </ul>	eter specifies the log files to be monitored on the remote machine	
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The configuration file can be located in a different directory.

The value for the SshHostList parameter is a list of remote machines. All of the other parameters in the configuration file can have only one value, which is applied to all of the remote machines specified in the SshHostList parameter.

In this example, the remote machine that is being monitored is a Solaris machine. The SshUserid and SshPassword parameters need to be provided in order to log onto that machine.

		IBM
Format file		
	🖪 ts,fmt - WordPad	
	File Edit View Insert Format Help	
	<u>.</u>	
	PEGEX MyDeviceError         ^Error on device: (.*) Error Level: (.*) \$         Device       \$1 CustomSlot1         ErrorLevel \$2 CustomSlot10         msg       PRINTF("%s error on %", ErrorLevel, Device)         END	
The C:\lo\ts.fmt file contains the     Format files can define multiple	e regular expression that is used as a look-up for messages in log files attribute groups with multiple, regular expressions	
<ul> <li>Regular expression-filtering supp – For more information, see:</li> </ul>	port is provided by the International Components for Unicode (ICU) libraries <u>http://userguide.icu-project.org/strings/regexp</u>	
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The format file can exist in a different directory.

The regular expression syntax that you use to create patterns to match log file messages and events is specified in the format file. Regular expression-filtering support is provided by the International Components for Unicode libraries to check whether the attribute value that is examined matches the specified pattern. For more information about using regular expressions, see the URL on this slide.

Configuration (1 of 4)												
	🚦 Manage Tivoli Enterprise Monitoring	Services - TE	M5 Mode - [Loca	al Computer]								
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- Go to the Manage Mon Enterprise	Tivoli Enterprise Portal	Desktop	Yes		N/A	N/A	N/A	N/A	N/A	06.23.01.00	NC9037038.	
Monitoring Services window	Tivoli Enterprise Portal Server	KFWSRV	Yes (TEMS)	Started	up-to-date	Auto	LocalSystem	No	No	06.23.01.00		
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	r Agentless Monitoring for Linux OS	INST1	Yes (TEMS)	Started	up-to-date	Auto	LocalSystem	No	No	06.23.01.00		
Choose "Configure Using Defaults"	Agentless Monitoring for Linux OS	Template			N/A					06.23.01.00		
•	Agentless Monitoring for ADLOS	Template			N/A					06.23.01.00		
	Agentiess Monitoring for Windows OS	Template	Ver (TEAC)	Charland	N/A	Artes	I meal@ustant	Ma	AL.	06.23.01.00		
	2 of Monitoring Agent for Windows OS	Primary	Yes (TEMS)	Started	up-to-date	Auto	LocalSystem	Yes	No	06.23.01.00		
	Tivoli Log File Agent	ts	Yes (TEMS)	Started	up-to-date	Auto	LocalSystem	No	No	06.30.00.03		
	天 42 Tivoli Log File Agent	testifa	Yes (TEMS)	Started	up-to-date	Auto	LocalSystem	No	No	06.30.00.03		
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You can configure the Log File Agent instance in the Manage Tivoli Enterprise Monitoring Services window. Right click the Log File Agent template and choose "Configure Using Defaults".

	IBM
Configuration (2 of 4): Tivoli Log File Agent instance name	
Tivoli Log File Agent	
Enter a unique instance name:	
UK Cancel	
<ul> <li>Enter a unique instance name</li> <li>For example: ts</li> </ul>	
<ul> <li>Instance names cannot be reused</li> <li>The instance name acts as a unique identifier for the monitored log file</li> </ul>	
<ul> <li>Certain keywords and special characters are not allowed for the instance name</li> </ul>	
Click "OK"	
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Enter a unique instance name and click OK.

		IBM
Configuration (3 of 4): Log	File Adapter Configuration	
<ul> <li>Enter the valid values for each field</li> </ul>	2 Tinuk Log File Agout	20 X
<ul> <li>Click "Next"</li> </ul>	Locatina of configuration lifes for the agent	
	Log Tile Adapter Global Settings	Instit New OK General
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Enter the locations of the configuration file and the format file. The other log file adapter configuration parameters are pre-populated. You can change the entries per your requirements. Then click Next.



Enter the log file adapter global settings parameters per your requirements. Then click OK.

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Service/Application	Task/SubSystem	Configured	Status	Configuration	Startup	Account	Desktop	HotStdby	Version	Host	Port	
Construction of the server	HELPSVR	Yes	Started	up-to-date	Auto	LocalSystem	No	No	06.23.01.00	loo book		
Tivoli Enterprise Portal	Browser	Yes		N/A	NA	NA	NIA	N/A	06.23.01.00	localhost Mcooggoge		
The Enterprise Portal	VEWEDU	TES	Started	NUA	NIA Auto	NUA LocalCustern	Allo.	NIA	06.23.01.00	WC9037038		
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Agentless Monitoring for Windows OS	Template			N/A					06.23.01.00			
Performance Analyzer	Primary	Yes (TEMS)	Started	up-to-date	Auto	LocalSystem	No	No	06.23.01.00			
To Monitoring Agent for Windows OS	Primary	Yes (TEMS)	Started	up-to-date	Auto	LocalSystem	Yes	No	06.23.01.00			
Tivali Log File Agent	8	Yes (TEMS)	Started	up-to-date	Auto	LocalSystem	No	No	06.30.00.03			
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Once the configuration of the Log File Agent instance is complete, the instance will have a status of "Started" in the Manage Tivoli Enterprise Monitoring Services window.

A Construction Status      A Construction Status      A Construction Status      A Construction Status      Data Construc	PE Object Status Error Code ACTIVE NO ERROR ACTIVE NO ERROR VVERY ACTIVE NO INSTANCES RETURNED
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Monitored File Status	/ \$ 0 8 0 ×
Node         Timestamp         Remote Host         Table Name         File Name         Regist Patern         File Status         Fil	um Records Matched Num Records Not Matched Num P 0 1

Ensure that there are no errors in Tivoli Enterprise Portal, once the agent is registered. The correct value for the File Status column is OK. If there are any errors in this column, rectify the agent configuration.



Here, four sample entries are made in the remote log file. These entries are monitored by the Log File Agent instance that was configured earlier in this module.



Of the four records, two are reported as matched and two as unmatched entries. Ensure that no other entries are displaying any errors.

est matched	entrie	S									
Dogfile Events -	- SYSADMIN										
File Fair Alex Helb		8084	) 🥔 🕹 🔯 📣	3 11 23	🗎 🕀 📊 🔯	🗖 🔃 🖓 🔳 🔗 🛢	24006			2	
ି Navigator	± 0 8	Logfile Events							/ = 0	DBO×	
View Physic Characteria View Characteria View	ent ling - FSSNMP: Proxy e Agent LO cottles eEvents	Node 15: 15:	Timestamp 10/09/14 11:29:18 10/09/14 11:26:29	Class MyDeviceError MyDeviceError	ts.log ts.log	Logname	msg Minor error on % Minor error on %	CustomSidt test 2 test 1	CustomSlot2	CustomE	
Matched records The column attrik	are disp outes are	olayed ir e specifi	n the Log ed in the	gfile E <sup>.</sup> e form	vents v at file	vorkspace	9				

The matched entries are shown in the Logfile Events workspace. The values in each column are specified by the regular expression in the format file.

👔 ts				
Comp	uter 🝷 Local Disk (C:) 🝷 lo 👻 ts	👻 🚺 Search		
File Edit View Tools Organize 🕶 🛄 View	Help ws ▼ 🧊 Open ▼			0
Favorite Links	Name -	↓   Date modified   ↓   Type	✓ Size ✓ Tags	
	Estifa.un	10/9/2014 11:56 UN File	889,759 KB	
Pictures	B ts log	6/2/2014 3:59 PM LOG File	1 KB	
Music	ts.unmatch	10/9/2014 11:52 UNMATCH File	1 KB	
matched records e, if specified in the	are captured in the unma e configuration file	Tile Edit File Edit File Edit for the second	tch - Notepad <sup>Format</sup> View Help r I d n i ng	

Log file entries that do not match are captured in the unmatch log file. Recording unmatched entries is not mandatory. If these entries are not needed, they can be ignored.

	IBM
Summary	
Now that you completed this module, you can perform these tasks:	
<ul> <li>Create an instance of Log File Agent</li> </ul>	
<ul> <li>Define a configuration file and format file</li> </ul>	
<ul> <li>Monitor remote log files by using Log File Agent</li> </ul>	
<ul> <li>Capture the required log file entries and set alerts based on those entries</li> </ul>	
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Now that you completed this module, you can create a new Log File Agent instance that can be used to monitor remote log files. You can define the configuration and format files. And you can capture the required log file entries and set alerts based on those entries.

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