WhatsupGold

Getting Started with WhatsConfigured



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CHAPTER 1 Welcome to WhatsConfigured

WhatsConfigured enables effective management of one of the most critical assets on your network—device configurations. As a fully integrated plug-in for WhatsUp Gold, WhatsConfigured automates the key configuration and change management tasks required to maintain and control configuration files for networking devices, reducing the risk of network outages caused by misconfigured devices. Network managers can leverage this automated configuration to reduce the amount of time spent ensuring their network devices are configured correctly, freeing valuable time.

WhatsConfigured is built around an automated task execution engine that allows network managers to dynamically gather configuration data about their network devices through configuration tasks. These configuration tasks can be scheduled to run on a regular basis or can be manually ran as needed to upload, download, and backup configuration files, manage device credentials, and much more. WhatsConfigured comes with several pre-defined configuration tasks with the option to create custom tasks. Additionally, WhatsConfigured works with the WhatsUp Gold Alert Center and can alert you on the success or failure of a task, or when changes are detected on a device.

With support for heterogeneous networks, WhatsConfigured provides secure SNMP, SSH, Telnet or TFTP access, to download and store device configuration files in a secure repository, keeping them readily available for file compares and restoration on a device.

WhatsConfigured not only reduces the time and effort required to maintain device configurations and changes while providing increased security, compliance, and visibility, it also reduces the risk of costly network downtime.

CHAPTER 2

Deploying WhatsConfigured

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STEP 1: Purchase and enable the WhatsConfigured license

The files for WhatsConfigured plug-in are installed automatically with Ipswitch WhatsUp Gold. Your license file determines whether or not you can access the WhatsConfigured plug-in, and how many devices you can assign to a WhatsConfigured task.

To update your license with a purchased WhatsConfigured plug-in, or to increase your device-per-task count, visit the *Mylpswitch portal* (http://www.myipswitch.com).

STEP 2: Configure and assign credentials

WhatsConfigured uses SSH and Telnet credentials to communicate with the devices on your network. You need to assign appropriate credentials to every device that you plan to manage through WhatsConfigured.

Name		Description	1	Тур	e	<u>N</u> ew	
Telnet1				Teln	et 📃	Edit	
SSH1				SSH		Copy	
public		Generated	Credential Type	SNM	IP v1	Delete	
	Add Ssh Creder	ntial Type	6				
	Name:						
	SSH1						
	Description:		Add Telnet Credential T	уре	6	2	
		-	Name:				
	Username: SSHUser		Telnet1				
	Password:		Description:				
	Password.						
	Confirm password	62	Usemame: TelnetUser				
	•••••			Add SNMPv2	Credential Typ	be .	
4	Engble/privilege p	assword	Password:	Name:			
	- generation generation			SNMP2			
	Confirm enable/pr	vilege nassv	Confirm password:	Description:			
		and been					
	Port:	Timeout	Enable/privilege password	Statale Tean com	munity:		
	22	10	Confirm enable/privilege p	SNMP2			
		1.1.1	Cominin enable/privilege p	SNMP write con	nmunity:		OK
			Port: Tim				Canc
			23 10	100		A Names J	

Credentials are configured in the WhatsUp Gold Credentials Library, and are assigned to devices from the Device Properties - Credentials dialog.

Туре	Name	Description	Edit
SNMP	public (SNMP v1)	Generated Credential Type	
Windows	(None)	No Windows credentials se	
ADO	(None)	No ADO credentials select	
Telnet	Telnet1		
I SSH	SSH1		
	m	×	
- SNMP			
Device Object ID: (OID)		
-			
	Type SNMP Windows ADO Telnet SSH	Type Name SNMP public (SNMP v1) Windows (None) ADO (None) Telnet Telnet1 SSH SSH1	Type Name Description SNMP public (SNMP v1) Generated Credential Type Windows (None) No Windows credentials si ADO (None) No ADO credentials select Telnet Telnet1 SSH SSH1 m

STEP 3: Configure task scripts and tasks

Task scripts login to devices through SSH or Telnet, and run command-line interface (CLI) commands on devices. These tasks can perform a number of operations, such as restoring or backing up a running or startup configuration, or changing an application password.

WhatsConfigured comes with several pre-configured task scripts; you can also configure your own custom task scripts using the WhatsConfigured Custom Script Language.

Task scripts are configured from and stored in the Task Script Library and associated to WhatsConfigured tasks in the WhatsConfigured Task dialog.

Name	Description	Туре	New
Backup Startup Config	Backup Startup Configuration	BackupStartupConfig	Edit
Backup Running Config	Backup Running Configuration	BackupRunningConfig	
			Сору
			Delete
			Close

For more information, see the Using Task Scripts section in the WhatsConfigured Help.

Task scripts are powered by user-configured *tasks*. When you configure a WhatsConfigured task, you select the specific task script that you want the task to execute at the time it is run.

You can configure both schedulable and password tasks. Schedulable Tasks run associated task scripts on a regularly scheduled basis. For example, you can have WhatsConfigured make a daily backup of a device's running configuration. Password Tasks modify credentials on the devices to which they are assigned. For example, removing a set of SNMPv1 credentials from a device.

Tasks are configured from and stored in the WhatsConfigured Task Library and are associated with devices in the WhatsConfigured Task dialog. Additionally, you can view tasks associated with a specific device from the Device Properties - Tasks dialog.

Name	Description	Туре	New
Add SNMP Community	Add Ipswitch	Schedule disabled	Edit
			Сору
			Delete
			Run No
			Close
			Help

For more information, see the Using Tasks section in the WhatsConfigured Help.

Assign tasks to the appropriate devices

A task must be assigned to a device in order to execute the selected task script. Tasks can either be assigned during the initial task configuration process via the New/Edit WhatsConfigured Task dialog, or from the Device Properties - Tasks dialog.

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Device	Properties : ip	switch.com						2	
🗅 Pro	perties	Tasks						1	
3	General		onfigured task	ks attached to t	this device				
X	Performance Monitors	Name 🔺		Description		Last run		Add	
?	Active Monitors		unning Task artup Task	and the second s	Runnng Config tup Config Task	9/14/2009 02:04:	04 F <u>E</u>	move	
0	Passive Monitors		alar fa						
-	Actions								
-	Credentials	×					· Ru	n Now	
0	Polling	New W	/hatsConfigure	ed Task					,
1	Notes								
1	Custom Links	Name:	ssword update						
-	Attributes	Descriptio							
	Tasks								
		Details	Devices						
			these devices					_	
_		0	Display na	ame +	IP addre	ss Ho	st name		
		O ATI	100		192.168.3.4				
								0	ж
			dd	Remove	1				DK ncel

Configure Alert Center task thresholds

As you configure WhatsConfigured tasks, you have the opportunity to assign Alert Center thresholds through which you can receive task threshold alerts. This can be done on the *Threshold* tab of the New/Edit WhatsConfigured Task dialog.

Ædit WhatsConfigured Task		×
Name:		
Backup Running Task		
Description:		
Backup the Running Config		
Script:		
Backup Running Config 👻 Add Script		
Devices Threshold Schedule		
Enable this threshold	<u>^</u>	
Enable this threshold		
Ihreshold name		
WCF AC 2		
Alert Center Threshold		
This threshold will alert when this task		
Detects configuration changes on a device	=	
Fails to run for a device		
Successfully runs for device		
Alert Center Notification Policy		ок
		Cancel
•	•	Help

You have the option to associate an Alert Center Notification Policy with the threshold to email you on the success or failure of the task, or when changes are detected.

STEP 4: Manage network devices

After tasks are configured and assigned, they either run on the schedule you configure, or can be run as needed from the WhatsConfigured Task Library and the Device Properties - Tasks dialog.

Name +	Description	Type	New	
Add SNMP Community	Add Ipswitch	Schedule disabled	Edit	
			Сору	
			Delete	
			Run Now	Click to run a task
				immediately
			Help	
			Close	

Note: If you run the task from Device Properties the task only runs for that specific device. If you run the task from the Task Library, the task runs for any device to which it is assigned.

In addition to running tasks on demand, the Device Properties - Tasks dialog allows you add or remove device tasks, restore a device to a previously archived configuration file, or delete an archived configuration.

Properties	Tasks				
Cold and the Cold Cold Cold Cold Cold Cold Cold Cold	Tasks			_	
5 General	WhatsConfigured task	ks attached to this device			
Performance Monitors	Name 🛓	Description	Last run	<u>A</u> dd	Click to add a device task
Active Monitors	Backup Running Task	Backup the Running Config	9/14/2009 02:04:04 F	Remove	Click to remove a device tas
Passive Monitors	Backup Startup Task	Backup Startup Config Tasl	k E		
2					
Actions					
Credentials	<	m	•	Run Now	Click to run a task immediately
🤣 Polling	- Archives saved for this	s device			Click to restore an
📝 Notes	Time created -	Created by	Key	Restore	archived configuration
Custom Links	9/14/2009 04:09:48 PM	Backup Startup Task	startup-config	Delete	Click to remove an
	9/14/2009 02:04:18 PM	Backup Running Task	running-config	_	archived configuration
Attributes	9/11/2009 02:04:13 PM	Backup Running Task	running-config		
🕨 🌉 Tasks	9/10/2009 02:04:20 PM	Backup Running Task	running-config	View	
		- · · · · ·	· · · · · ·	Compare	
				Zounhara	

STEP 5: View WhatsConfigured data

As WhatsConfigured runs tasks, it stores data in the WhatsUp Gold database. You can view this task and configuration data from several places in WhatsUp Gold, including the Device Properties - Tasks dialog, the WhatsConfigured Task Log report, and the Alert Center tab.

View and compare configuration data

Device configuration data can be viewed from the Device Properties - Tasks dialog. From here you can view a single archived configuration, or compare two configuration files side-by-side via the WhatsConfigured Diff Viewer.

Properties	Tasks				
	TUSKS				
💺 General		ks attached to this device	Increase and		
🞢 Performance Monitors		Description	Last run	Add	
Active Monitors	Backup Running Task Backup Startup Task	Backup the Running Config Backup Startup Config Tas	and an end of the product of the second second	Bemove	
Passive Monitors	Telnet Change with Che				
Actions	test	tset			
Credentials	70		······································	Run Now	
Poling					
	Archives saved for thi			·	
2 Notes	Time created +	Created by	Key	Restore	
Custom Links	9/15/2009 04:09:44 PM	Backup Startup Task	startup-config	Delete	
Attributes	9/15/2009 02:04:08 PM	Backup Running Task	running-config		
	9/14/2009 02:04:18 PM	Backup Running Task	running-config		0
Tasks	9/11/2009 02:04:13 PM	Backup Running Task	running-config +	View	
	()			Çompare	
	WhatsConfigured Diff Viewer				
	-				
	cisco2821 r	.ipswitch.com (t a device		cisco2621	.ipswitch.com () Select a device
	cisco2821 r	.ipswitch.com (t a device 3 PM - running-config	•	cisco2821	.ipswitch.com () Select a device 02:04:13 PM - running-config
	cisco2821 r	t a device		cisco2821 # 9/11/2009	Select a device
	cisco2821 if 9/15/2009 02:04:08	t a device		cisco2821 # 9/11/2009	Select a device
	cisco2821 Select rr 9/15/2009 02:04:04 6 Diffs () 1 !	t a device		sisco2821 9/11/2009	Select a device
	cisco2821 Select rr 9/15/2009 02:04:04 6 Diffs () 1 !	t a device 3 PM - running-config		sisco2821 9/11/2009	Select a device 02:04:13 PM - running-config
	cisco2821 Select if 9/15/2009 02:04:04 6 Diffs (1 i 2 ! Last confid	t a device 3 PM - running-config		9/11/2009	Select a device 02:04:13 PM - running-config configuration change at 11:40:18 NewYor
	6 Diffs () 1 1 2 1 Last confid 3 1 4 version 12.4	<pre># a device # PM - running-config # # guration change at 1</pre>	2:55:52 NewYork	1 ! 2 ! Last 4 versio	Select a device 02:04:13 PM - running-config configuration change at 11:40:18 NewYor m 12.4
	cisco2021 Seec r 9/15/2009 02:04:00 6 Diffs () 1 i 2 ! Last confid 3 ! 4 version 12.4 5 service times	a device 3 PM - running-config guration change at 1 stamps debug datetim	2:55:52 NewYork		Select a device 02:04:13 PM - running-config configuration change at 11:40:18 NewYor m 12.4 re timestamps debug datetime msec
	ecco2621 Seec r 9/15/2009 02:04:00 0 Diffs () 1 ! 2 ! Last confid 3 ! 4 version 12.4 5 service times 6 service times	a device 3 PM - running-config guration change at 1 stamps debug datetime stamps log datetime	2:55:52 NewYork	 9/11/2009 2 ! Last 4 versio 5 servic 6 servic	Select a device 02:04:13 PM - running-config configuration change at 11:40:18 NewYor in 12.4 ie timestamps debug datetime msec ie timestamps log datetime msec
	ecco2621 Seec r 9/15/2009 02:04:00 0 Diffs () 1 ! 2 ! Last confid 3 ! 4 version 12.4 5 service times 6 service times	 a device B PM - running-config guration change at 1 stamps debug datetim stamps log datetime ssaword-encryption 	2:55:52 NewYork	9/11/2009 9/11/2009 2 ! Last 3 ! 4 versio 5 servic 6 servic 7 no ser	Select a device 02:04:13 PM - running-config configuration change at 11:40:18 NewYor m 12.4 re timestamps debug datetime msec

View task data

Task data can be viewed from the WhatsConfigured Task Log and on the WhatsUp Gold Alert Center tab.

The WhatsConfigured Task Log displays log messages generated by WhatsConfigured tasks. You can filter the report to display only data pertaining to a specific task result, a specific task, specific device, and by date the task occurred.

tsConfigured Task Log Home Devices Rep	orts	All Devic	es	More Group Reports: WhatsConfigured Task Log • E
Iask: All Tasks 🔹	Date ran Start tim	nge: Custom	• Go	Result: All Results
Device: All Devices in the Group	End time		1:25 PM +	Result. All Results
Wednesday, September 02, 2009 12:00:00 AM	Wednesday, September 16	2009 01:25:00 PM:		-9.9.
Date -	Task	Device Severity	Result Type	Message
Tuesday, September 15, 2009 04:09:44 PM	Testing	QA- Information	Successful Sche	duled Backup Startup Config SUCCEEDED
Tuesday, September 15, 2009 02:04:08 PM	Backup Running Task	QA- Information	Successful Sche	duled Backup Running Config SUCCEEDED
Tuesday, September 15, 2009 02:04:08 PM	Backup Running Task	QA- Information	Change Dete Sche	duled Changes detected.
Monday, September 14, 2009 04:09:48 PM	Testing	QA- Information	Successful Sche	duled Backup Startup Config SUCCEEDED
Monday, September 14, 2009 02:04:19 PM	Backup Running Task	QA- Information	Change Dete Sche	duled Changes detected.
Monday, September 14, 2009 02:04:18 PM	Backup Running Task	QA- Information	Successful Sche	duled Backup Running Config SUCCEEDED
Friday, September 11, 2009 02:04:13 PM	Backup Running Task	QA- Information	Successful Sche	duled Backup Running Config SUCCEEDED
Friday, September 11, 2009 02:04:13 PM	Backup Running Task	QA- Information	Change Dete Sche	duled Changes detected.
Thursday, September 10, 2009 02:04:20 PM	Backup Running Task	QA- Information	Successful Sche	duled Backup Running Config SUCCEEDED
Thursday, September 10, 2009 02:04:20 PM	Backup Running Task	QA- Information	Change Dete Sche	duled Changes detected.
Wednesday, September 09, 2009 02:04:25 PM	Backup Running Task	QA- Information	Change Dete Sche	duled Changes detected.
Wednesday, September 09, 2009 02:04:24 PM	Backup Running Task	QA- Information	Successful Sche	duled Backup Running Config SUCCEEDED
Tuesday, September 08, 2009 02:04:17 PM	Backup Running Task	QA- Information	Successful Sche	duled Backup Running Config SUCCEEDED
Wednesday, September 02, 2009 02:04:20 PM	Backup Running Task	QA- Information	Successful Sche	duled Backup Running Config SUCCEEDED

After you have assigned a threshold to a task, a custom threshold workspace report for the task threshold is displayed on the Alert Center tab. This report displays data about the devices for which the task is configured, the result of the task, and the time at which Alert Center was alerted on the task result.

WCF AC 2 (2 items)		🛃 🎅 🖯
	d scheduled task Backup Running Task run changes or failed configuration attempts or	
Device	Configuration Result	Time Alerted
QA-2821.ipswitch.com	Successful run	Mon 08/24 2:15 PM
		Mon 08/24 2:15 PM

Tip: You can click a **Configuration Result** to view the WhatsConfigured Task Log for more detailed information about the report entry.

CHAPTER 3

More information

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For more information and updates

Following are information resources for Ipswitch WhatsUp Gold. This information may be periodically updated and available on the WhatsUp Gold web site.

- Release Notes. The release notes provide an overview of changes, known issues, and bug fixes for the current release. The notes also contain instructions for installing, upgrading, and configuring WhatsUp Gold. The release notes are available at Start > Programs > Ipswitch WhatsUp Gold > Release Notes or on the WhatsUp Gold web site.
- Application Help for the console and web interface. The console and web help contain dialog assistance, general configuration information, and how-to's that explain how to use the features. The Table of Contents is organized by functional area, and can be accessed from the main menu or by clicking Help in the console.
- Additional WhatsUp Gold guides. For a listing of current and previous guides and help files available for WhatsUp Gold, see the WhatsUp Gold web site.
- Licensing Information. Licensing and support information is available on the Mylpswitch licensing portal. The web portal provides enhanced web-based capabilities to view and manage lpswitch product licenses.
- Knowledge Base. Search the Ipswitch Knowledge Base of technical support and customer service information. The knowledge base is available on the WhatsUp Gold web site.
- Support community. Use the WhatsUp Gold community site to interact with other WhatsUp Gold users and share helpful application information on the forums, view KBs and documentation, submit new product ideas, and keep up with the latest news on the blog. The wugSpace support community for WhatsUp Gold is available on the WhatsUp Gold community site.

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