

In this module, you see the steps to create a ping agent by using the ping data source with the Tivoli Monitoring Agent Builder tool.

	IBM
Assumptions	
 Before you proceed, you must have these prerequisites in place: Installed Tivoli Monitoring Agent Builder 6.3 on a Windows system Installed and configured IBM Tivoli Monitoring agents Knowledge of IBM Tivoli Monitoring infrastructure 	
2 Use the ping monitor data source to create a ping agent	© 2014 IBM Corporation

For the purposes of this instruction, you must have version 6.3 of the Tivoli Monitoring Agent Builder installed on a Windows system. You need to have installation and configuration experience with IBM Tivoli Monitoring agents, and be familiar with the infrastructure of an IBM Tivoli Monitoring environment.



When you complete this module, you can create a new agent by using a Ping data source.

You learn how to add new attribute groups and test the agent in Agent Builder.

You can install the agent and the application support.

You can start monitoring data for the agent in Tivoli Enterprise Portal client.



A Ping configuration file and a Device list file are required to create a Ping agent.

The Ping configuration file contains the path to one or more device list files.

The Device list file contains the host name of the monitored systems.

Start the agent builder tool	😰 IBM Tivoli Monitoring - IBM Tivol	ali Monitoring Agent tuilder
	File Edit Navigate Search Project	Run Window Help
	E IBM Tivoli Monitoring	
Choose File > New > IBM Tivoli	Project Explorer 12	Bible Trivelia Monitoring Agent Wizard Bible Trivelia Monitoring Agent Wizard Tis water devides an IBM hold Monitoring Agent.
Monitoring Agent, click Next		Welcome to the IBM Tivol Monitoring Agent Builder New Agent Witard. This witard helps you create an IBM Tivol Monitoring Agent quickly.
		Click Next to continue.
	(Procession and a second secon	Cancel
	Problems X Oltems	
	Description *	Resource Path Location Type

Start the Agent Builder tool and select File > New > IBM Tivoli Monitoring agent. This opens the IBM Tivoli Monitoring agent wizard. Click Next.

New IBM Tivoli Monitoring	agent proiect
	🔁 IBM Tivoli Monitoring Agent Wizard
	New IBM Tivoli Monitoring Agent Project Provide a name for the project that will contain the IBM Tivoli Monitoring Agent files.
 Enter a valid project name – For example, Ping 	Project name: Ping
 Click Next 	Use default location Location: C:\Users\Administrator\workspace\Ping Working sets Add project to working sets
	Working sets: Select
	Cancel Cancel

Enter the project name. The files for the project are stored under the default location or you can browse to specify another location. Click Next.

C IBM Tivoli Monitoring General Information Enter the description of the	Agent Wizard		
General Information Enter the description of the	agent you are creating.		
Display name ping			
Copyright IBM			<u>×</u>
Default Operating Systems			
T AIX (32-bit)	Linux 2.4 (Intel)	Linux 2.6 (64-bit zSeries)	Solaris (64-bit SPARC)
AIX (64-bit)	Linux 2.6 (Intel)	Linux (64-bit PowerPC)	Solaris (64-bit x86)
HP-UX (32-bit)	Linux (31-bit zSeries)	Linux (64-bit Itanium)	Windows
HP-UX (64-bit Itanium)	Linux (64-bit 25eries)	Solaris (32-bit SPARC)	I WINDOWS (OT DIC)
All operating systems	All Linux	T All UNIX	☑ All Windows
?	_	< <u>B</u> ack <u>N</u> ext >	Einish Cancel
	Cupyright Land	Cupying is a second sec	Cupyrigin IBM Default Operating Systems Inux 2.4 (Intel) Linux 2.6 (64-bit zSeries) A1X (32-bit) Linux 2.6 (Intel) Linux (64-bit PowerPC) HP-UX (32-bit) Linux (31-bit zSeries) Linux (64-bit Itanium) HP-UX (64-bit Itanium) Linux 2.6 (31-bit zSeries) Solaris (32-bit SPARC) All operating systems All Linux All UNIX

Enter the display name on the general information page. This name is displayed in the Tivoli Enterprise Portal client. Enter the information in the copyright section as required by your company policies. Now select the platforms on which the agent is to be installed. After you make the selections, click Next.

		IBM
Agent information		
 Enter the Service name for the monitoring agent. This name displays in the Manage Tivoli Enterprise Monitoring Services window For example, Ping Enter the company identifier The remaining fields will be populated automatically. Make any required changes Click Next 	BM Tivoli Monitoring Agent Wizard Agent Information Specify the general information for the agent. Service name Manitoring Agent for [Ping] Product code Product code K01 Company identifier Version 630 Support multiple instances of this agent Minimum ITM version 6.2.1	Cancel
8 Use the ping mo	conitor data source to create a ping agent © 201	4 IBM Corporation

Enter the service name for the monitoring agent. This name is displayed in the Manage Tivoli Enterprise Monitoring Services window. Enter the information in the company identifier section. The remaining fields will be populated automatically. Make the necessary changes as required. Click Next.

Data source	📴 IBM Tivoli Monitoring Agent W	/izard 📃 🗖
	Agent Initial Data Source Select an initial source of monitoring	data for the new agent.
 In the Monitoring Data Categories panel, select Network management data In the Data Sources panel, select Ping Click Next 	Monitoring Data Categories A process Data from a server Ketwork management data Command or script Count or script Custom programs Data source groupings	Data Sources Ping Create an attribute group which reports status data by sending ICMP pings to a list of hosts.
	?	< Back Next > Emish Cancel

On the agent initial data source page, select "Data from a Server" under Monitoring Data Categories. Then, select "Ping" under Data Sources. Click Next.

Ping information	IBM Tiyoli Monitoring	Agent Wizard					
	Ping Information						
	Specify the Ping provider in	formation.					
	Ping Information			1			
At this point, you can test the agent to ensure that it works as expected	No additional settings are necessary for this data source to be created						
 In Operating Systems, ensure that the correct selections are made 		Tect	Advanced				
Click Finish		<u>(</u>	Havanced				
Olick Thilsh	Operating Systems	E					
	T AIX (32-Dit)	Linux 2.4 (Intel)	Linux 2.6 (64-bit zoeries)	Solaris (64-bit SPARC)			
		Linux (21 bit aSeries)	Linux (64 bit Transum)	Windows			
		Linux (51-bit 25eries)	Linux (64-bit v96)	Windows (64-bit)			
	HP-UX (64-bit Itanium)	Linux 2.6 (31-bit zSeries)	Solaris (32-bit SPARC)	I WINDOWS (OT DIC)			
	All operating systems	T All Linux		All Windows			
	Agent default						
	Ø		< Back Wext >	Einish Cancel			

Select the operating systems applicable for this agent in the Operating Systems section.

Click Finish.



Type the name of the object in the Object Name field or hit the Browse button. All the performance objects on the system are listed.

		IBM
Testing procedure – Data So	urce Definition tab	
	9. Agent Editor Ping 23	- 8
	Data Source Definition	· 2
 Testing can be done in two ways: 	Attribute Group Information	
 During agent creation, click Test on the Ping information page After agent creation, select an attribute group on the Agent Editor Data Source tab and click Test 	Ping (Agent) B- Managed_Nodes (ICMP) Produces a single data row O Produces a single data row	Add to Selected Remove
 This module covers the second method 	Add this attribute group to a reporting category Performance	
 Click Test 	No additional settings are necessary for this data source to be created Test Advanced	
	Operating Systems	-
	Agent Information Data Sources Runtime Configuration Itm_toolkit_agent.xml	
12 Us	e the ping monitor data source to create a ping agent	© 2014 IBM Corporation

The agent can be tested in two ways.

During agent creation, click Test on the Ping information page.

After agent is created, select an attribute group on the Agent Editor Data Source tab. Click Test.

This module covers the second method to test the agent.

Se Poin	ttings t to the F	1 Ping configu	ratic	on file as s	specifie	d on S	ide 4				
Test Set	ttings ttings	gent									×
Test the IC	CMP settings										
Ping configu	ration file C:\IBM	\AgentBuilder\ping.txt									Browse
Results	aidden attributes				Start Ag	ent Colle	ct Data Stop /	Agent	Check Results	Set Environment	Configuration
Address	Device_Entry	Current_Response_Time	Name	Node_Description	Node_Status	Node_Type	Status_Timestamp	1			
			-								
			-					-			
				<u>k</u>							

A new screen pops-up where you can start the agent by using the "Start Agent" button.

				Click Col	lect Dat	a					
est Sel	ttings										X
st Set	tings										
The test	t agent has been s	tarted. Log files can be foun	d in C:\Us	ers\ADMINI~1\AppDa	ata\Local\Temp	14075302	65815\TMAITM6\logs.				
a configur	ration file C:\IBM	(AgentBuilder)ping.txt									Browse
					Start Age	nt Coller	ct Data Stop Ag	ant Che	ck Results	Set Environment	Configuration
sults —											
Chan h	nidden attributes										
SHOW N			Name	Node_Description	Node_Status	Node_Type	Status_Timestamp				
Address	Device_Entry	Current_Response_Time	Tradino								
Address	Device_Entry	Current_Response_Time	Tydine								
ddress	Device_Entry	Current_Response_Time	Traine								
ddress	Device_Entry	Current_Response_Time	Traine -								
ddress	Device_Entry	Current_Response_Time									
ddress	Device_Entry	Current_Response_Time									
ddress	Device_Entry	Current_Response_Time									

After the Collect Data button is activated, click it and then click the "Stop Agent" button. The results section shows the results of the test.

Check	Results							
Onech	V I VESUILS							
Test Setting	15							X
est Setting	S							
2 data rows	returned at Aug 15, 2014	6:12:26 PM.						
ing configuration	n file C:\IBM\AgentBuilde	er\ping.txt		0.5				Browse
			Start Agent	Collect Data	Stop Agent	Check Re:	sults Set Environment	t Configuration
Results								
Show hidde	n attributes							
Address	Device_Entry	Current_Response_Time	Name	Node_Description	Node_Status	Node_Type	Status_Timestamp	
9.42.4.244	tiviab.raleign.ibm.com pc9053114085	0	ns2-ipv6.trviab.raieign.ibm.com nc9053114085.tivlab.austin.ibm.com	myhosts myhosts	Unknown	IP Node		
21001111100	10000111000	•	nesobor reconstruction and an annean	in prioses	GINIGHT			

Check the test results

								IBN
Data co	llection	status						
Make su	re that no e	errors are	e displaye	d here				
Testing of	concludes h	nere. Clic	k OK					
Data Collectio	n Status							
)ata Collectio	on Status							
Collection status h	or testing attribute g	roup Managed_N	odes					
Query_Name	Object_Name	Object_Type	Object_Status	Error Code	Last_Collection_Start	Last_Collection_Finished	Last_Collection_Duration	Average_Collection_Du
Managed_Nodes	Managed_Nodes	PING	ACTIVE	NO_ERROR	Aug 15, 2014 6:08:04 PM	Aug 15, 2014 6:08:04 PM	0.0	0.0
41								
								<u>, </u>
								OK

Make sure NO_ERROR is displayed under Error_Code.

Click OK.

IBM
te Agent Wizard
e Agent Locally Ilation directory [::1IBM/ITM Browse all the agent all the agent all the TEMS support Restart the TEMS without credentials all the TEPS support Restart the TEPS e Agent Image rectory [C:Users/Administrator Browse] b the expanded files ate a ZIP file the ar ITM Surpageing file
Einish Cancel
a st

Choose the appropriate options to install the agent, along with the application support, on the local system.

Also, create the agent .zip and .tar files to install the agent on other systems.

Click Finish.

installation - Co	omplet	e									
	mpior										
would be allowed as and here l		These	—					ر او مرد در			
gent is displayed in i	vianage	IIVOII	Enterp	rise won	itorir	ig Serv	lces	winad	DW		
R. Landard M. Landard M		and a Prove	1.0								
Manage Twoil Enterprise Monitoring	Services - TEMS	5 Mode - [Loc	al Computer								
Actions Options View Windows Help											
3 3 5 5 8											
Service (Application	Task/SubSystem	Configured	Status	Configuration	Startup	Account	Deskton	HotStdby	Version	Host	Port
Frince Help Server	HEIDSVD	Vec	Started	up-to-date	Auto	LocalSystem	No	No	06 30 02 00	THOSE	Tione
Tivoli Enterprice Portal	Browser	Vec	Starteu	N/A	N/A	N/A	N/A	N/A	06.30.02.00	localbost	
Tivoli Enterprise Portal	Desktop	Vec		NIA	N/A	NIA	NA	N/A	06 30 02 00	NC9053114	
Tivoli Enterprise Portal Server	VEWSDV	Vec (TEMS)	Started	up-to-date	Auto	LocalSystem	No	No	06 30 02 00	140,0000111111	
Stee Warehouse Summarization and Pru	Primary	Ves (TEMS)	Started	up-to-date	Auto	LocalSystem	No	No	06.30.02.00		
St P Monitoring Agent for Windows OS	Primary	Yes (TEMS)	Started	up-to-date	Auto	LocalSystem	Ves	No	06.30.02.00		
Warehouse Proxy	Primary	Yes (TEMS)	Started	up-to-date	Auto	LocalSystem	No	No	06.30.02.00		
Monitoring Agent for SOA MBeans	traveloort	Yes (TEMS)	Started	up-to-date	Auto	LocalSystem	No	No	06.23.00.00		
A Monitoring Agent for SOA MBeans	Template			N/A					06.23.00.00		
A 🕫 Monitoring Agent for Ping	Primary	No		N/A					06.30.00.00		
Fre Monitoring Agent for JDBC1	test2	Yes (TEMS)	Started	up-to-date	Auto	LocalSystem	No	No	06.23.00.00		
The Monitoring Agent for JDBC1	test1	Yes (TEMS)	Started	up-to-date	Auto	LocalSystem	No	No	06.23.00.00		
Monitoring Agent for JDBC1	Template			N/A					06.23.00.00		
🔆 🖙 Universal Agent	Primary	Yes (TEMS)	Started	up-to-date	Auto	LocalSystem	No	No	06.23.02.00		
Agentless Monitoring for Solaris OS	Template			N/A					06.30.02.00		
Agentless Monitoring for HP-UX OS	Template			N/A					06.30.02.00		
Agentless Monitoring for Linux OS	Template			N/A					06.30.02.00		
Agentless Monitoring for AIX OS	Template			N/A					06.30.02.00		
Agentless Monitoring for Windows OS	Template			N/A					06.30.02.00		
A 🕫 Performance Analyzer	Primary	No		N/A					06.30.02.00		
A P Tivoli Enterprice Monitoring Automa	KAS1	No		N/A					06.30.02.00		
- The Encerprise Moniconing Adcontact.											

The newly installed agent is displayed in Manage Tivoli Enterprise Monitoring Services window.

You can also view the installed agent in the output of kincinfo (on Windows) and cinfo (on Linux[®] or UNIX[®]).



Complete the agent configuration by right-clicking the agent in the Manage Tivoli Enterprise Monitoring Services window.

When a green check mark is displayed, right-click to start the agent.

In the <itm_home>/bin directory on Linux or UNIX systems, run the command: **itmcmd config -A <product_code>**.

The product code 00 is used in this illustration.

Use itmcmd agent start 00 to start the agent after configuration is completed.

Agent start - Complete

• Manage Tivoli Enterprise Monitoring Services window displays the Monitoring Agent for Ping

Service/Application	Task/SubSystem	Configured	Status	Configuration	Startup	Account	Desktop	HotStdby	Version	Host	Port	
🛠 🕫 Eclipse Help Server	HELPSVR	Yes	Started	up-to-date	Auto	LocalSystem	No	No	06.30.02.00			
🔯 Tivoli Enterprise Portal	Browser	Yes		N/A	N/A	N/A	N/A	N/A	06.30.02.00	localhost		
🛂 Tivoli Enterprise Portal	Desktop	Yes		N/A	N/A	N/A	N/A	N/A	06.30.02.00	NC9053114		
🔆 🔯 Tivoli Enterprise Portal Server	KFWSRV	Yes (TEMS)	Started	up-to-date	Auto	LocalSystem	No	No	06.30.02.00			
🛠 🕶 Warehouse Summarization and Pru	Primary	Yes (TEMS)	Started	up-to-date	Auto	LocalSystem	No	No	06.30.02.00			
🛠 🕫 Monitoring Agent for Windows OS	Primary	Yes (TEMS)	Started	up-to-date	Auto	LocalSystem	Yes	No	06.30.02.00			
🛠 🕫 Warehouse Proxy	Primary	Yes (TEMS)	Started	up-to-date	Auto	LocalSystem	No	No	06.30.02.00			
🛠 🛩 Monitoring Agent for SOA_MBeans	travelport	Yes (TEMS)	Started	up-to-date	Auto	LocalSystem	No	No	06.23.00.00			
Monitoring Agent for SOA_MBeans	Template			N/A					06.23.00.00			
🔭 🔤 Monitoring Agent for Ping	Primary	Yes (TEMS)	Started	up-to-date	Auto	LocalSystem	No	No	06.30.00.00			
🛠 📽 Monitoring Agent for JDBC1	test2	Yes (TEMS)	Started	up-to-date	Auto	LocalSystem	No	No	06.23.00.00			
🔆 🗝 Monitoring Agent for JDBC1	test1	Yes (TEMS)	Started	up-to-date	Auto	LocalSystem	No	No	06.23.00.00			
Monitoring Agent for JDBC1	Template			N/A					06.23.00.00			
🛠 🕫 Universal Agent	Primary	Yes (TEMS)	Started	up-to-date	Auto	LocalSystem	No	No	06.23.02.00			
Agentless Monitoring for Solaris OS	Template			N/A					06.30.02.00			
Agentless Monitoring for HP-UX OS	Template			N/A					06.30.02.00			
Agentless Monitoring for Linux OS	Template			N/A					06.30.02.00			
Agentless Monitoring for AIX OS	Template			N/A					06.30.02.00			
Agentless Monitoring for Windows OS	Template			N/A					06.30.02.00			
A 🕫 Performance Analyzer	Primary	No		N/A					06.30.02.00			
🗛 💀 Tivoli Enterprise Monitoring Automa	KAS1	No		N/A					06.30.02.00			
K Tivoli Enterprise Monitoring Server	TEMS1	Yes	Started	up-to-date	Auto	LocalSystem	No	No	06.30.02.00			

The Manage Tivoli Enterprise Monitoring Services window shows that the agent is started.

IBM

voli Er	terprise	e Po	rtal – De	sktop v	Iew						
The Tivo	li Enterpri	se Po	rtal client di	splays the	Ping agent along	with the	works	paces	S		
📕 K01:K011001 - N	19053114085 - SYSAD	OMIN									
<u>File E</u> dit ⊻iew <u>H</u>	elp										
13 @ • @ •			18 🔏 🛛 🖉 🖑 🛙	i 4) 🛛 🔂 🛄 😤 🖻	🚊 😬 🔝 🗊 🔜 🤃 🗹 🔳 🤣 📮		à				
Ravigator				* 00 8	🔀 This view has not been defined						
		View: Physical	i	• 0, 3	😭 🔾 🖒 🔵 🖑 🥥 🖨 🔍 Locatio	ən: 💽 http://nc90531	14085:15200	/classes/can	ndle/fw/resources/help/		
Part Mindows, System 2 Part Mindows, System 2	Iemai 14085 1 Inaged Nodes 1408ans Iouse Proxy Isarization and Pruning ws OS	us Agent		-	This is the default workspace for this N: page. You can also change to a differen Hands-on practice and guidelines Tutorial: Defining a workspace Vorkspace characteristics Custom workspace options and g	here. You have this br rse topics: View Choices Adding a table Adding a note Adding a mes Adding a univ Adding a grap Creating a tab Adding a term Creating a brc					
og Physical					Done						
Report											
	Timoctomo	Addross	Device Entry	Current Response Tim	ne Name	Node Description	Node Status	Node Type	Status Timestamp		
Node	Timestamp	mulicoo	Donoo Linoj								

A navigator item for this agent is displayed in the Tivoli Enterprise Portal client under the system where it is installed.

The report view displays the data that is collected by the agent.

The attributes that are related to this agent are activated in Tivoli Enterprise Portal situation editor to define situations.

	IBM
Summary	
 Now that you completed this module, you can perform these tasks: Create an agent by using the ping data source Use the agent to perform ping operations Install the agent along with application support locally or on remote systems Start monitoring data for the agent in Tivoli Enterprise Portal client 	
22 Use the ping monitor data source to create a ping agent	© 2014 IBM Corporation

Now that you completed this module, you can create a new agent by using a Ping data source to perform ping operations.

You can install the agent along with application support locally or on remote systems.

You can configure and start the Ping monitoring agent.

Trademarks, disclaimer, and copyright information

IBM, the IBM logo, ibm.com, and Tivoli are trademarks or registered trademarks of International Business Machines Corp., registered in many jurisdictions worldwide. Other product and service names might be trademarks of IBM or other companies. A current list of other IBM trademarks is available on the web at "Copyright and trademark information" at http://www.ibm.com/legal/copytrade.shtml

Linux is a registered trademark of Linus Torvalds in the United States, other countries, or both.

Microsoft, Windows, and the Windows logo are registered trademarks of Microsoft Corporation in the United States, other countries, or both.

UNIX is a registered trademark of The Open Group in the United States and other countries.

Other company, product, or service names may be trademarks or service marks of others.

THE INFORMATION CONTAINED IN THIS PRESENTATION IS PROVIDED FOR INFORMATIONAL PURPOSES ONLY. WHILE EFFORTS WERE MADE TO VERIFY THE COMPLETENESS AND ACCURACY OF THE INFORMATION CONTAINED IN THIS PRESENTATION, IT IS PROVIDED "AS IS" WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED. IN ADDITION, THIS INFORMATION IS BASED ON IBM'S CURRENT PRODUCT PLANS AND STRATEGY. WHICH ARE SUBJECT TO CHANGE BY IBM WITHOUT NOTICE. IBM SHALL NOT BE RESPONSIBLE FOR ANY DAMAGES ARISING OUT OF THE USE OF, OR OTHERWISE RELATED TO, THIS PRESENTATION OR ANY OTHER DOCUMENTATION. NOTHING CONTAINED IN THIS PRESENTATION IS INTENDED TO, NOR SHALL HAVE THE EFFECT OF, CREATING ANY WARRANTIES OR REPRESENTATIONS FROM IBM (OR ITS SUPPLIERS OR LICENSORS), OR ALTERING THE TERMS AND CONDITIONS OF ANY AGREEMENT OR LICENSE GOVERNING THE USE OF IBM PRODUCTS OR SOFTWARE.

© Copyright International Business Machines Corporation 2014. All rights reserved.

23

Use the ping monitor data source to create a ping agent

© 2014 IBM Corporation

IBM