

This presentation will discuss IBM Workload Deployer troubleshooting.

		IBM
Overview		
<ul> <li>IBM Workle</li> <li>Details</li> </ul>	bad Deployer appliance troubleshooting of the Troubleshooting tools	
<ul> <li>Other troub – Domain – Virtual \$     </li> </ul>	bleshooting hints n Name Server Systems	
<ul> <li>Summary</li> </ul>		
2	Troubleshooting	© 2011 IBM Corporation

This presentation will discuss troubleshooting the IBM Workload Deployer appliance. First, you will see detailed information about the Troubleshooting tools provided from the **Appliance** tab in the administrative console. Then you will see additional information related to problems with the Domain Name Server (DNS) and information about virtual systems. The last slide is a summary of this presentation.



This section will discuss troubleshooting the IBM Workload Deployer device.



When troubleshooting problems that you suspect are related to the IBM Workload Deployer firmware or software, you should consider first taking a snapshot of the screen where the error becomes apparent. The next step typically involves using the **Troubleshooting** tools in the IBM Workload Deployer administrative console, which are discussed on the following slides.

If the issue is outside the scope of IBM Workload Deployer firmware or software, such as a suspected specification or definition error or an error within a hypervisor, you can still use the appliance administrative console to assist in problem determination. The IBM Workload Deployer administrative console provides convenient links to remote logs, to SSH and VNC facilities, and links to the WebSphere Application Server administrative console for the deployed virtual systems. In addition, you can use the **Troubleshooting** tools within the **Appliances** tab to review the appliance logs and audit logs, and to test outbound connections. For problems within the deployed virtual system and WebSphere Application Server, you typically should use traditional troubleshooting techniques appropriate for that particular operating system, which can include reviewing the WebSphere Application Server logs. You can access the deployed virtual system using SSH or VNC facilities, or you can access the WebSphere Application Server administrative console for the deployed virtual system.

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			5			
Troubleshooting	ink in <b>Applia</b>	nce tab				
<ul> <li>Download and</li> </ul>	examine log a	and audit file	es			
- Review appliar	ice memory a	nd disk cap	acity and u	isage		
– Check applian	e temperatur	es				
<ul> <li>– lest network c</li> </ul>	onnections	wara				
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You can access the **Troubleshooting** page from the **Appliance** tab in the IBM Workload Deployer administrative console. The Troubleshooting page has several tools to help you diagnose IBM Workload Deployer problems. You can download and examine log and audit files, review the appliance memory and disk capacity and usage, check internal appliance temperatures, test outbound connections, and power off or restart the appliance.

![](_page_5_Figure_0.jpeg)

Within the logging page, you can view the kernel service or storehouse log files. The kernel service is used to direct manage the deployment of virtual applications while the storehouse is where the artifacts are stored for virtual application deployments. From the logging page, you can also view the current error file, view the current trace file, download the log files, or configure trace levels. If you do not have specific instructions from IBM support for configuring the trace levels, you should use the default settings. For problems you submit to IBM support, you must provide the log files. You can download a complete set of log files from the appliance by clicking **Download log files**. The archive of log files that the appliance maintains contains a long history of logs and is a large file. The REST API provides syntax that allows you to grab just the latest sets of logs for the last few hours. This is very useful if you are troubleshooting a problem, have re-created it, and need to gather a recent set of logs to send to IBM support. The syntax for downloading just the latest log files is shown on this slide.

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Auditing							
- Audit data cont		do of upor a	- ativity for a	bicato atore	d on the	annlianaa	
<ul> <li>Audit data cont – Download a</li> </ul>	all audit da	ds or user a ita	activity for 0	DJECIS STORE	ed on the a	appliance	
– Download a	audit data i	filtered by d	late and tim	ne			
	d Davis						1
IBM Workioa	d Deployer		Colular II				
Welcome In	nstances 💌	Patterns 💌	Catalog 💌	Reports 💌		Appliance 💌	
Troubleshooting	) on aimcp158.	austin.ibm.com					
B Download	d all data						
Filter system	activity data b	y selecting a date	e range.				
Start date	Jun 22, 201	.1	6:33 PM				
End date	Jul 22, 2011	1	6:33 PM				
Time zone	GMT (Unite	d Kingdom)	~				
😼 Downloa	d filtered data						
7 Troi	ubleshooting						© 2011 IBM Corporation

The audit data contains records of user activity for auditable objects stored on the appliance. For example, using audit data, you can determine when virtual systems, cloud groups, hypervisors, and patterns are created, updated or deleted. Click **Download all data** to retrieve all audit data that exists on the appliance. Alternatively, set a date and time range, and then click **Download filtered data** to retrieve audit data within the specified date and time range.

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ows memo	orv and disk	capacity				
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d if usage	15 60 % OF GF					
d if usage	load Deployer					
d if usage IBM Work	load Deployer	r Patterns 💌	Catalog 💌	Reports 💌	Cloud 💌	Appliance 💌
d if usage IBM Work Welcome Troublesho	load Deployer	r Patterns 💌 3.austin.ibm.com	Catalog 💌	Reports 💌	Cloud 💌	Appliance 🗨
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IBM Work Welcome Troublesho Logging Auditing Hardwar Memory Encrypte Temoor	Ioad Deployer Instances oting on aimcp158 re Capacity usage ed disk space ary disk space (1)	Patterns  Patterns  Raustin.ibm.com	Catalog  Catalog	Reports 💌	Cloud 💌	Appliance  50% (out of 96 GB)

**Hardware capacity** shows you the memory usage and disk space statistics for the appliance. If the usage is below 80 percent, the graphs will display in green. If the usage is 80 percent or greater, the graphs will display in red. If the usage is unexpectedly high or critically high, you should open a problem to IBM support, including a snapshot of the screen image.

							IBM
Harc	ware temperat	ures					
<ul> <li>Rep</li> </ul>	orts the temperature	of internal cor	nponents				
A ch	neck mark in a green	square indica	tes safe ran	ge 🔽			
∎ An e	exclamation mark on	, a vellow triand	nle indicate	sunsafe rar	🔬 and		
- 7110		a yenow thang	gie indicate.	s unsale rai	ige —		
	TRM Workload Deploy	IOF					
	Welcome Instances	Patterns 👻	Catalog 🔽	Reports 🔻	Cloud 🔻		
	Troubleshooting on aimcp	158.austin.ibm.com					
	+ Logging						
	+ Auditing						
	+ Hardware Capacity						
	- Hardware Temperature	25					
	System	105.8° 🗸					
	CPU package (1)	100.4° 🗸					
	CPU package (2)	111.2° 🗸					
9	Troubleshooting					© 201	1 IBM Corporation

The **Hardware Temperatures** page shows the temperature of internal components within the IBM Workload Deployer appliance. The green check icon is displayed if the temperature is within the safe range, and the yellow exclamation mark icon is displayed if the temperature is outside the safe range.

				TBM
Outbou	nd connections	3		
<ul> <li>Allows ye</li> </ul>	ou to ping remote ho	osts from the appli	ance	
<ul> <li>Ping with</li> </ul>	IP address or with	host name		
<ul> <li>Tip: also</li> </ul>	ping the appliance	from the remote h	ost as well	
IBM Work	Dad Deployer	Catalog - Reports -		
Troubleshoo	ing on wcazym01.rtp.raleigh.ibm	.com		
+ Logging				
+ Auditing				
+ Hardward	Capacity			Successful
+ Hardward	Temperatures			
Ping reme	te host 9.3.75.15	7	Ping V	Successful
E	Outbound Connections			
	Ping remote host	aimcp157.austin.ibm.com	Ping	Failed
[	Outbound Connections			
	Ping remote host	9.3.252.159	Ping	0
10	Troubleshooting			© 2011 IBM Corporation

The **Outbound Connections** page allows you to ping a remote host using the IP address or using the host name. If the ping is successful, you will see a green box with a check mark to the right of the **Ping** button. If it is unsuccessful, you will see a red circle with an X to the right of the **Ping** button. If you suspect a Domain Name Server issue or communication issue, you should also ping the appliance from the remote host as well, first using the appliance IP address and again using the appliance host name.

![](_page_10_Figure_0.jpeg)

The Power administration options allow you to restart the appliance or to shut down the appliance. For both actions, you receive a confirmation message so that the action is not accidentally invoked. In addition, you can choose the action to be immediate, or the action can be delayed until all current appliance tasks have been completed.

					IBN
Storehouse browser					
<ul> <li>View contents of the storehouse</li> </ul>	; lisation do:				
- Contains artifacts for virtual	application de	ployments			
	Jus artilacts be	eing useu			
IBM Workload Deployer					
Welcome Instances 💌 Patterns	<ul> <li>Catalog</li> </ul>	Reports 💌	Cloud 💌	Appliance 💌	
Troubleshooting on 172.16.76.10					
Logging		IBM Worklo	ad Deploye	er	
+ Auditing		Welcome	Instances 💌	Patterns 💌	
+ Hardware Capacity		Storehouse	Browser		
Hardware Temperatures				have a	
+ Outbound Connections		nups://1/2.	10./0.11/store	nouse/	
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- Storehouse Browser	N	+ files/			
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2 Troubleshooting					© 2011 IBM Corporat

The Storehouse Browser hyperlink shown on the slide will open a new window, displaying the contents of the storehouse. The storehouse is where the artifacts are stored for virtual application deployments.

![](_page_12_Picture_0.jpeg)

This section will discuss troubleshooting hints related to the IBM Workload Deployer appliance.

![](_page_13_Figure_0.jpeg)

When you initially configure IBM Workload Deployer, you must define the address of a Domain Name Server, or DNS. The setting is accessed within the **Appliance** tab, clicking on **Settings**, and expanding **Domain Name Servers.** All IP addressable resources related to the IBM Workload Deployer environment must be defined within the DNS, including hypervisors, target addresses within IP groups, and even the IBM Workload Deployer appliance itself. In addition, all addressable resources must be resolvable by both forward and reverse lookup. A successful forward lookup is when the appliance can resolve a host name to a valid IP Address. A successful reverse lookup is when the appliance can resolve an IP address to a valid host name. Failure to properly define resources within the DNS can cause problems that are sometimes difficult to diagnose.

		IBM
Virtual systems		
<ul> <li>View the status for m</li> </ul>	ost commonly needed information	
<ul> <li>Virtual Systems &gt; ()</li> </ul>	vour virtual system)	
<ul> <li>Expand History and</li> </ul>	Virtual machines for more information	
ESX Single server 7.0.0.17	\$ 🖬	🖬 🖉 📲 🗙
Created on:	Jul 26, 2011 7:12:49 PM	
From pattern:	WebSphere single server with sample	
Using Environment profile:	None provided	Status
Current status:	The virtual system has been deployed and is ready to use	information
Updated on:	Jul 26, 2011 7:24:50 PM	
Access granted to:	Administrator [owner]	
	Add more	
Snapshot:	Create	
	(none)	History
+ History	The virtual system has been deployed and is ready to use	Thistory
Virtual machines	1 total - 1 started Virtu	ial 🛛
15 Troubleshooting	machi	© 2011 IBM Corporation

If you are having problems with a virtual system deployment, you will want to review all the information within the virtual system entry of interest. When you click an individual entry within the list of **Virtual Systems**, you will first see the most commonly needed status information. This includes the pattern from which the virtual system was created, the current status of the virtual system, and the list of users with access. Below that are the **History** section and the **Virtual machines** section, which you will see in the next slides.

![](_page_15_Figure_0.jpeg)

When you expand the **History** section for a virtual system, you will see a list of actions that were performed during the deployment of the virtual system, each with a date and time stamp. You can look for errors within the history to assist with problem determination. In addition, the time stamps give you a good idea of how long individual actions took to complete.

![](_page_16_Figure_0.jpeg)

If you expand the Virtual machines section of your virtual systems entry, you will see a list of each virtual machine in its own section, which in turn can be expanded. Each virtual machine section contains a great deal of information. At the top right of the display is a link labeled View that opens the action toolbar for this virtual machine. The toolbar contains links to start, stop, delete, or clone this virtual machine. The Login link opens an SSH console to the virtual machine. The two bars at the top show hardware utilization information for the virtual processor and memory that are allocated to this virtual machine. In the example above, the memory consumption for this virtual machine is 91%. The rest of the display provides details about the configuration for this virtual machine. The **General Information** section provides basic information about the virtual machine, including its current state, hypervisor, and cloud group. Below that you see the IBM products list. This contains a list of all of the IBM products that are included in this virtual machine for license tracking. Next you see Hardware and network information, including the processor information, virtual memory, and the host name and IP address. The Operating system section lists the name, type and version of the operating system running in the virtual machine. Under that you see information called WebSphere configuration. which refers to the WebSphere Application Server installation on that virtual machine. Further down you see a section entitled **Script Packages**. That section lists the scripts that ran during the virtual machine creation. To the right of the script package names you see the associated log files. You will see more information about those on the next slide. At the bottom of the screen you see the link to consoles for this virtual machine. All virtual machines contain the WebSphere link that takes you to the application server administrative console. In this example, there is also a VNC link that will open up a remote desktop to this virtual machine. VNC connections are only available on VMware deployments and can be optionally disabled at deployment time

				IBN
/irtual syster	ns – Scri	pt packages		
Lists the scripts	s that ran for	that virtual syste	m	
Script Packages	o the right to	) download or view	w the log files	
WebSphere Applicati Server Samples	ion 💙 Jul :	26, 2011 7:24:00 PM	remote_std_out.log remote_std_err.log cloudburst_collect1311708239316.zip	
🕫 WebSphere Hypervis	sor 💙 Jul	26, 2011 7:24:20 PM	remote_std_out.log	
Edition Startup Logs	remote_std_out.log.tx	it - WordPad		1
A	File Edit View Insert Form	nat Help	· · · · · · · · · · · · · · · · · · ·	
Sel Must Gather Logs		A In the N In		1
	The user name is:	virtuser	3	l.
	Starting to config	jure WebSphere Samples on aimcpl	39.austin.ibm.com	l.
	WASX7357I: By requ application operat	est, this scripting client is n- cions will be available in local	ot connected to any server process. Certain dremote_std_out_log.txt]g mode.	
		and payamatave		1
	Command: Scope: cell node server Samples:	configure & install CloudBurstCell_1 CloudBurstNode_1 server1 activitysessions AlbumGerSlog	I	
		AppFrofile AsynchBeans DynamicQuery il8nctx JaxWSServicesSamples JTAExtensionsSamples FlantsSyWebSphere SamplesGallery		
T	blochooting		0	2011 IBM Corporat

You can review the logs for the scripts that run for each virtual machine. The scripts are listed under the details of each virtual machine, in a section called **Script Packages**. The script package section contains information about configuration scripts, WebSphere Hypervisor Edition Startup scripts, and custom scripts that you deploy. The script name is listed at the left and the related log file name is listed at the right. Each log file name is a link for the actual log file itself, so you can click each link to download or view the log files. A script can be defined to run at virtual system creation time, virtual system deletion time, or you can manually initiate the script yourself. You should review your custom script log closely for errors or unexpected operation.

Welcome, Administrator   Help   /	claud E	Catalaa	BM Workload Deployer	
pplication S X G *	lication	eatalog P	irtual Application Instances	
on instance ID: d-3db7a68a-f5a2-487e-9c7c-b77bc309d03c Status	instance ID:	†↓ <del>•</del>		
cbadmin		*	All	
Jul 27, 2011 1:13:36 AM			ample virtual application	
Administrator [owner]				
Add more				
nines of the virtual application : 2	es of the virtual ap			
Public IP VM Status Started on Role Status Activ	Public IP			
6 172.16.76.28 Running A + Log Jul 27, 2011 1:14:03 AM WAS A + Endpoint Vie	172.16.76.28			
7 172.16.76.27 Running	172.16.76.27			
The virtual system has been deployed and is ready to use				
am has been deployed and is ready to use Jul 27, 2011 1:23:19 AM	has been deployed			
machine database-db2.11311743616837 Jul 27, 2011 1:15:44 AM	achine database-db2			
machine application-was.11311743616836 Jul 27, 2011 1:15:38 AM	achine application-w			
machines in virtual system d-3db7a68a-f5a2-487e-9c7c-b77bc309d03c. Jul 27, 2011 1:15:38 AM	achines in virtual sys			
ual system d-3db7a68a-f5a2-487e-9c7c-b77bc309d03c Jul 27, 2011 1:14:43 AM	system d-3db7a68		N	
ual images to hypervisors Jul 27, 2011 1:14:38 AM	Transferring virtual images to hypervisors			
lel for topology and network Jul 27, 2011 1:14:23 AM	for topology and ne			
resources Jul 27, 2011 1:14:13 AM	sources			
resources Jul 27, 2011	esources			

If you are having problems with a virtual application deployment, you will want to review all the information within the virtual application entry of interest, The VM status field starts out as 'LAUNCHING', moves to ' 'INSTALLING' and finally ends up at 'RUNNING' if all goes as planned. There is also a 'FAILED' and 'TERMINATED' status. The History section should look familiar to you because that is what you saw for the 'Virtual System' deployment history.

irtual applicat	ions -	applicatio	n probl	ems			
f the application h	as proble	ems after it is	in the RU	NNING sta	ate, you can	use the 'inle	eť to
ook at application	logs for a	all VMs or go	directly to	the logs f	or the probl	em VM:	
BM Workload Deployer	1				Welcome, A	Administrator   Hel	p   About
Welcome Instances 🗨	Patterns 💌	Catalog 📼 🛛 R	eports 🕶 🛛 C	oud 👻 Appli	ance 💌	Profile	Logout
/irtual Application	00	Sample virtual appl	ication		Inlet >	🛛 🗙 🕲	6 <sup>0</sup>
sAMP	†↓ <del>-</del>	Virtual application	instance ID:	d-3db7a68	a-f5a2-487e-967c-b7	77bc309d03c Statu	s 🖁
All	*	Created by:		cbadmin			
ample virtual application		Created on:		Jul 27, 2011 1:13:36 AM			
				Administral	tor [owner]		
		Access granted to:		Add more.			
		🖃 Virtual machine	es of the virtual a	application : 2			
		Name	Public IP	VM Status	Started on	Role Status	Action
VM	logs	application-was. 11311743616836	172.16.76.28	Running □ ↔ Log	Jul 27, 2011 1:14:03 AM	WAS D + Endpoint	View
	V	database-db2. 11311743616837	172.16.76.27	Running 📮	Jul 27, 2011 1:14:03 AM	DB2 DB2	View
		History		The virtual syst	tem has been deploy	ed and is ready to us	e

If the virtual application has problems after the deployment is in the RUNNING state, you can go to the deployment inlet to look at application logs. This will include logs for all VMs that were deployed for the virtual application instance. You can also get to the logs for each particular VM by the hyperlink in the virtual machine list as shown by the 'VM logs' arrow. You will look at the logs available on the next slide.

![](_page_20_Figure_0.jpeg)

This slide is showing the logs available for a VM hosting WebSphere Application Server. It include logs for the Operating system in the VM itself, regular WebSphere logs such as SystemOutErr.log and then IBM Workload Deployer Agent logs. The IWD Agent logs show you actual 'installation' of the WebSphere Application Server code, coming from the Storehouse as you saw populated earlier. What you will probably be most interested in here are the WebSphere Application Server logs. The next slide will show you the SystemOut.log.

![](_page_21_Figure_0.jpeg)

This is showing the SystemOut.log from the WebSphere deployment. This can be helpful when looking at problems with the applications running in the WebSphere Application Server VM. This slide is also showing you that you can download the logs with the green arrow next to each of the logs.

![](_page_22_Picture_0.jpeg)

This section will summarize the troubleshooting options available for the IBM Workload Deployer device.

	IBM
Summary	
<ul> <li>Try to determine if problem is with IBM Workload Deployer itself or with a pr system or resource that you have defined</li> </ul>	articular virtual
<ul> <li>Use the Troubleshooting tools to assist you with debugging</li> </ul>	
<ul> <li>Problems within an individual virtual machine often require traditional diagn for the operating system and for WebSphere Application Server</li> </ul>	ostic techniques
<ul> <li>If you suspect a IBM Workload Deployer problem, remember to take a snap and then download the log files</li> </ul>	oshot of the error
<ul> <li>Ensure you have two-way communications between the appliance and hyp addresses</li> </ul>	ervisors or target
<ul> <li>Remember that all IP resources must be defined within the DNS and must a reverse DNS lookup</li> </ul>	allow forward and
<ul> <li>Review the individual virtual systems entries for clues about problems related deployment or start of a virtual system</li> </ul>	ed to the
• Review the script packages logs to ensure for errors or incorrect operation	
24 Troubleshooting	© 2011 IBM Corporation

In summary, you should try to determine if the suspected problem is with the IBM Workload Deployer appliance itself or with a particular virtual system or resource that you have defined. You can use the Troubleshooting tools to assist you with debugging. If you suspect the problem is within an individual virtual machine, you will often need to use traditional diagnostic techniques appropriate for that operating system environment and for WebSphere Application Server. If you suspect you have an IBM Workload Deployer problem, remember to take a screen snapshot of the error and then collect the appliance log files for IBM Support. For communications issues, ensure that you have two-way communications between the appliance and the target hosts or the hypervisors. All IP resources used by IBM Workload Deployer must be defined within the Domain Name Server, including the IBM Workload Deployer appliance itself. All entries within the DNS must allow forward and reverse DNS lookup. Review the individual virtual system entries for clues about problems related to deployment or start of a virtual system. Remember to review the script package logs for errors or incorrect operation.

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