

Room	Day	Time	Title	Speaker
208B	Monday	11:00	Lab	Multi
201A	Monday	11:00	The Value of the WebSphere Application Server Job Manager	Loos
2054	wonday	4.30	aveosphere Application Server for 2/03 1 am no Longer a Duminy but	LUUS
205B	Tuesday	9:30	Performance Tuning for WebSphere Application Server for z/OS - Practical Advice	Everett
205A	Wednesday	4:30	WebSphere Application Server for z/OS: Tools and Tricks (Potpourri)	Loos and Co.
205A	Wednesday	6:00	WebSphere Application Server for z/OS: Helping Customers Help Themselves	Stephen
206B	Thursday	8:00	Securing WebSphere Application Server for z/OS	Kearney
206B	Thursday	9:30	Application Improvement and Savings Through Simplification	McCorkle
206B	Thursday	11:00	WebSphere Application Server for z/OS: Batch	Bagwell
206A	Thursday	12:15	WebSphere Application Server 101	Stephen
206B	Thursday	1:30	WebSphere Application Server for z/OS: Availability Considerations	Bagwell
206B	Thursday	3:00	WebSphere Application Server: z/OS Exploitation/Differentiation	Follis
206B	Thursday	4:30	Performance Tuning for WebSphere Application Server for z/OS - WAS and WI M Interactions and Concents	Follis



We'll be doing this in two parts. First we'll run through the steps to configure the Job Manager, as well as some of the options available, and then we'll go through a couple of usage scenerios.

Let's start with configuration...



Starting (as usual) with the spreadsheet. You can either do this as and additional part of an existing cell (this allows you to reuse the existing security infrastructure) or you could do the Job Manager as a totally separate configuration. No matter which way you decide, the Job Manager is actually as separate cell, with its own daemon. Basically it is a specialized standalone server. Once you've filled out the spreadsheet, you can select the Job Manager "tab".

08 💌 🏂 =		SHAR Technolegy - Connections - Rec
# WebSphere Co # Generated responseFile to conf # Job Manager # Job Manager # To De imported into the z Profil # Application Server Toolkit (AST # 1. Copy contents of this column # then press CTRL-C to copy to # 2. Open a new file with notepac # 3. Save the newly created file a # # 4. Load into z Profile Managem #	A	Copy the entire contents of Column "A", then paste the results into a text file.
adminPassword=		
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Next step is to use "edit copy" to get the entire first column into the clipboard. Then paste it into a text file for use as a response file that will be the input to the zPMT.

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	sp 					
H W Profile M	anagement lool	y welcome				
Customization	Locations					While not necessary, I
Name		Version	Location		Add	bulding within an existi
k7cell		7.0	D:\mjlwsc\V700\k7	7cell\wct		building within an existi
s3cell		7.0	D:\WAS V7 WCT V	Vorkspaces\s3cell	Remove	cell location
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For this presentation, we'll be using an existing cell, the s1cell which I've been using for SHARE presentations since the GA of WAS V7. We'll basically be adding what looks like another component, the Job Manager, but which really only shares security profiles and therefore some long and short names with the rest of the cell. It truly is a separate standalone server that just happens to share enough of the naming to make the security still work.

Profile Management Tool 7.0		<b>SMA</b> K
Environment Selection		Technolegy - Connections - Ree
Select the specific type of environment to create.		
WebGhere Application Server for z/OS     Cell Odeptoyment manager and an application     Application server     Application server     WebGhere angolication server     WebGhere DVZ Secure Proxy Server for z/     Management     Secure proxy	ns	
-Description This selection generates the customization jobs profile creation tool on the target J/DS system The management node provides the servers an administrative genits provided: for a Network	that are used to configure a z/OS management node. These customization jobs inclus s well as other jobs that are required to perform 1-specific configuration actions. Services necessary to manage your. WebSphere environment. For a base application Deprivment jobogy the Deprivment Manager is provided for tighty cuscled manage	le 1 S err
Hanager is provided for a more loosely coupled	menagement of multiple base application servers. < Back Next >	Optimization generation of the second

Once you've clicked on Create, you can select the Management option...



Then select "Job Manager"...

Value of the Web	Sphere Application Server Job Manager	
		SHAR
		Technology · Connections ·
🕀 Profile Management Tool	7.0	
Customization Definition Na	ame	
Management - job manager		
Specify the name that will identify the	this austamization definition	
Customization definition name:	ana cuatorinizationi derinitativi	
sljmgrc		
Response file path name (optional	) 	
D:\mjlwsc\V700\s1cell\S1JMGRC.	responseFile	Browse
Specify the full path name of the r values in the response file.	response file that contains the default values. When this value is specified, the input field	ds in the tool will be pre-loaded with the
Note: This tool creates customization	on data and instructions that are used to configure a WebSohere Application Server for :	z/OS runtime environment. However, a z/OS
runtime profile is not created nor au	ugmented until the steps listed in the generated instructions are performed on the target	t z/OS system.
		2
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		in Anaheim

Give the customization definition a name, s1jmgrc, and indicate that you want to use the response file which we just created.

Profile Management Tool 7.0	S H A Technology - Come	R E
Configuration File System Management - job manager		
Mount point: //wasv 7config/s1jmgrc/s1jmgrc Directory path name relative to mount point: JobManager Data set name: OMVS.S1JMGRC.S1JMGRC.CONFIG.ZFS	Profile Management Tool 7.0 Configuration File System Management - job manager Mount point: //wasv7cdnfg/s1cell/s1mge Directory path name relative to mount point:	
Slide 10	© 2011, IBM Corporation	en polyage two Virtualiza Enterpris independent 10

While the normal progression at this point would be to just click Next all the way through, accepting the values provided by the response file, we're going to make a couple of exceptions to make setup a little easier and to minimize the changes to the security configuration.

The first one is we'll change the mountpoint so that the zfs for the job manager configuration is mounted in the same directory as the other zfs files for the rest of the s1cell configuration (again, understanding that we're not really part of the cell, just "sharing space".

SSL Customization Management - job manager		SHA Technology - Com
Certificate authority keylabel: WebSphereCA.: Generate certificate authority (CA) certificate Expiration date for certificates: 2018/12/31 Default SAF keyring name: WASKeyring.S1	SICELL	
✓ Enable SSL on location service daemon		SSL Customization Management - job manager
		Certificate authority keylabel: WebSphereCA.SICELL
	-	Generate certificate authority (CA) certificate
		Expiration date for certificates: 2018/12/31
		Default SAF keyring name: WASKeyring STCELL

The next exception is to use the same keyring name as the rest of the cell so that we don't have to define any new ones and so that ssl handshakes will work for us when we start testing.

Security Managed by the z/OS Product Management - job manager	SHAR Techniqy - Consetture - Re
SAF profile prefix (optional):	
51JMGRC	
WebSphere Application Server unauthenticated user	-
User ID: S1GUEST	
Assign user-specified UID: 40002	
Enable Writable SAF Keyring support	
	SAF profile prefix (optional):
	WebSohere Application Server unauthenticated user
	User ID: SIGUEST
	Allow OS security to assign UID
	Assign user-specified UID: 40002
	In floor way

Last, we'll reuse the SAF profile prefix that the s1cell already uses so that we can use the same EJBROLE, APPL, and some other profiles.

					SHAR Technology · Connections · Ree
Customization	Definitions Custor	nization Summary Customization Instructions	Customization Response File		
Name	Туре	Product	Environment	Create	
s1dmgr	Create	WebSphere Application Server for z/	Management - deployment manager		
s1emptyc	Create	WebSphere Application Server for z/	Managed (custom) node	Regen	
s1emptyd	Create	WebSphere Application Server for z/	Managed (custom) node	Delete	
sljmgrc ZAppEru01	Create	WebSphere Application Server for z/	Management - job manager	Delete	
ZAppSrV01	Create	websphere Application Server for z/	Application server	Process	
			BBOS	SBRAK.	
DSLIST - Command Command	Data Seta ===> MJLOOS.S: MJLOOS.S: MJLOOS.S:	<pre>s Matching MJLOOS.S1* /" to select action CELL.S1DMN0DE.CNTL CELL.S1DMN0DE.OATA CELL.S1EMPTYC.CNTL</pre>	BBOS BBOS BBOS BBOS	BBRAK, DBRAK. BBRAM	Maybe
DSLIST - Command Command	Data Sets	<pre>Matching MJLOOS.S1* /" to select action ICELL.S1DMNODE.CNTL ICELL.S1DMNODE.DATA ICELL.S1EMPTYC.DATA</pre>	BBOS BBOS BBOS BBOS BBOS BBOS	DBRAK, DBRAK. DBRAK. DBRAM	Maybe
DSLIST - Command Command 	Data Sett ===> ■ - Enter "/ MJL00S.SS MJL00S.SS MJL00S.SS MJL00S.SS MJL00S.SS MJL00S.SS MJL00S.SS MJL00S.SS	s Matching MJLOOS.S1* /" to select action ICELL.S1DMNODE.CNTL ICELL.S1DMNODE.DATA ICELL.S1EMPTYC.OATA ICELL.S1EMPTYC.OATA ICELL.S1EMPTYD.OATA ICELL.S1JMGRC.CNTL ICELL.S1JMGRC.CNTL ICELL.S1JMGRC.CNTA ISROICS.TRACE.TX1 ***************	BBOS BBOS BBOS BBOS BBOS BBOS BBOS BBOS	DCPY1 DCFS DHFSA WWPFD	Maybe

After we've finished CREATing the customization definition and PROCESSed it (uploading the CNTL and DATA datasets), we can begin processing.

If we hadn't caused reuse of the SAF profiles and mountpoints earlier, we would have to run the BBOSBRAK, BBODBRAK, and BBOSBRAM jobs.

Since we did reuse most of the SAF profiles, the only additional profiles we need are the STARTED class profiles for the daemon and controller started tasks.

"RDEFINE STARTED XXDMNJ\*.\* STDATA(USER(XXACRU) GROUP(XXCFG) TRACE(YES))"

"RDEFINE STARTED XXJCR\*.\* STDATA(USER(XXACRU) GROUP(XXCFG) TRACE(YES))"

In every case, we do have to run the BBODCPY1, BBODCFS, BBODHFSA, and BBOWWPFD jobs.

We then would be ready to start the Job Manager server using the start command shown at the bottom of the screen. © 2011, IBM Corporation

Value of the WebS	phere Application Server Job Manager	
You must crea	te some additional directories	SHARE
In the Jo file syste	b Manager configuration m /wasv7config/slcell/sljmgrc/JobManager/profiles/d /config /temp /JobManager	Trebaology-Connections-Heavith
In the De file syste	eployment Manager configuration m	
	/wasv7config/s1cell/s1dmnode/DeploymentManager/pr	ofiles/default
Slide 14	© 2011, IBM Corporation 20	Influence under volumente in Anaheim

We also need to make a change to the configuration file system for the Job Mangager configuration to add the directory where scripts will be found.

Also, any "target" configuration will need a place for the scripts to be downloaded.

These directory names and locations are nonnegotiable.

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Integrated Solutions Console     Console     Critic Solutions Console     Metrics Boolmarks	Caracterington.ibm.com:15400 RETAIN WWERS W Wile Remempleos	16/bm/console/secure/securelogon.do 2 BM Intranet 🛒 WI System Status 🔌 OTR 🗋 WAS Admin local	D Worlder 🚾 WARA 🕊 eller 🖬 Barehook 🖂 196	A
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Welcome     Guided Activities     Servers     Modulation		elcome		
Guided Activities     E Servers	we	elcome .	? - 0	About this Integrated Solutions Console -
E Servers				
m Applications		Integrated Solutions Console provides a common administra	ative console for multiple products. The table lists the product suites	Integrated Solutions Console, 7.0.0.13
m Application		that can be administered through this installation. Select a p	product suite to view more information.	Build Number: cf131039.07
I Services		Cuite Name	Varian	
E Resources		WebSphere Application Server	7.0.0.13	LICENSED MATERIALS PROPERTY
E Security				OF IBM
Environment				
System administration				
I Users and Groups				
FR Menitorine and Tuning				
IFT Troubleshapting				
R Service integration				
E noot				
Antegrated Solutions Console	VSC3.washington.bm.com:1544 RETAIN WWERS WWW	46/ibm/console/secure/secure/ogon.do 🥳 IBM Intranet – 🎢 W3 System Status – 🍓 OTR – 🗋 WAS Admin loca	al 💽 Viewillues 🎊 WWQA 😻 atlay 💽 Pacabook 🧰 104 Help   L	Legoxe
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- Welcome		a seconda	/-0	Accur ous integrated Solutions Console - D
() Ressurces		Integrated Solutions Console provides a common administ that can be administered through this installation. Select a	rative console for multiple products. The table lists the product suites product suite to view more information.	Integrated Solutions Console. A
E Security				Build Date: 10/2/10
E System administration		Saite Name WebSphere Application Server	Version 7.0.0.13	LICENSED MATERIALS PROPERTY
E Users and Groups				OF 1999
I Troubleshooting				
- Welcome 12 Jake 13 Resources 13 Recursor 14 Exvironment		Closes Integrated Solutions Console provides a common administ that can be administered through this installation. Select a Suite Name	2 = 0 retive console for multiple products. The table lats the product suites product suite to view more information. Version	Alexand bloc fotegrated Bolitions 7.0.0.12 Build Number: d131039.07 Build Number: d131039.07 Build Date: 10/2/10
B Ressurces		Integrated Solutions Console provides a common administ that can be administered through this installation. Select a	rative console for multiple products. The table lists the product suites product suites to view more information.	Integrated Solutions Console. 7.0.0.12
E Security				Build Date: 10/2/10
Esviranment		Suite Name	Version	
H Myrsonaot		Suite Name	Version	I CONSED MATERIALS PROPERTY
m system administration		menoprare Application Server	7.0.0.13	OF IBM
a come and dright				
C. Manager and C. S.				
				Optimizati
			SHA	Optim Solution Influence Computing EX Prior

At this point the configuration work is basically complete.

A comparison of the adminconsole for the network deployment cell (s1cell) and the Job Manager cell shows the difference (and more importantly the similarities) between the two.



We're ready to begin using the Job Manager to make changes to the target (ND s1cell).

Value of the WebSpł	nere Application Server Job Mana	ger Share
Integrated Solutions Console Welcome myloos View: [All tasks [97]	Cell=stcell, Profile=default	Technology - Connections - Results Help   Logout
Welcome	Deployment manager	?
FI Guided Activities	Deployment manager	
© Servers	Use this once to step the deployment manager from product to the ball	a the administrative encode many that you are use to defe-
m Application	additional properties for the deployment manager. The deployment manager	er provides a single, central point of administrative control for all
H Appressions	elements of the distributed cell.	
H services	Runtime Configuration	
Resources  1. Open up System		
E Security administration, then	Stop	
Environment click on Deployment		
System administration	General Properties	
· Cell	Name	2 Click on
<ul> <li>Save changes to master repository</li> </ul>	dmgr	Java and Proce 2. Olick off     Job managers.
Nodes	A Chart Name	Administration
<ul> <li>Node agents</li> </ul>	SIDMGR	Additional Properties
<ul> <li>Node groups</li> </ul>	Unique ID	- Core group service
Console Preferences	C3BC9F3DA65BEA4900000180000000109521847	Job managers
		E Porta
Users and Groups	Run in 64 bit JVM mode	- Administration services
Monitoring and Tuning	Start components as needed	Custom services
Troubleshooting		- ORB service
E Service integration	Apply OK Reset Cancel	<ul> <li>Logging and tracing</li> </ul>
E UDDI		<ul> <li>Change Log Detail Levels</li> </ul>
		Web container transport chains
	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	<ul> <li>HTTP transports</li> </ul>
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The first thing that has to happen, is we must "register" the s1cell with the Job Manager.

This is done from the adminconsole for the cell (not the Job Manager) by opening up System administration, clicking on Deployment manager, and then on Job managers.

Deployment manager Deployment manager Deployment managers Viscothe International State Action of the St	Server Job Manager
View the instant     Click on point this node is registered. The point this node is registered. The point the	Deployment manager > Job manager. > Register with Job Manager Register a managed node with Job manager. If you are using the deployment ri Specify an alise if the managed node name is in use by another node. Us Should be pre-filled transged mode name isconset in the second of
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A particular node may be registered to multiple Job managers.

To start the registration process for a node, click on the Register with Job manager button.

On the next screen, the managed node name should be pre-filled with the name of the node with which you are working. You must fill in the hostname and port (WC\_adminhost\_secure) for the Job manager with which you wish to register, as well as the security credentials you will use for the process.

When you click on OK, the process will start.

eployment manager		2 - CHAD
Deployment manager > Job managers View the list of job managers to which this node is job manager, click Register with Job Manager. To	s registered. The UUID uniquely identifies a job manager. To register a managed nod unregister a managed node from a job manager, dick Unregister from a Job Manage	эпАКІ e vith a Technology · Connections · Resu r.
Preferences		
Register with Job Manager Unregister from a Job M	Manager	
Select UUID default-JOB MANAGER-75845-24-9425-44	URL      URL      Te-bd5e     https://wsc3.washington.ibm.com:15446/otis/OM4DMServlat	
ca22942dea9b		
Total 1		
enloyment manager		2
Deployment manager > Job managers > d	default-JOB_MANAGER-7b845c24-9d25-4e7e-bd5e-ca22942dea9b	
Use this panel to change the polling interva	al and the URL for this job manager registration.	
General Properties		
deneral reperties		
* UUID		
* UUID default-JOB MANAGER-7b845c24-9d25-4e	e7e-bd5e-ca22942dea9b	
* UUID default-JOB_MANAGER-7b845c24-9d25-4e	a7e-bd5e-ca22942dea9b	
UUID     default-JOB_MANAGER-7b845c24-9d25-4e     Polling interval     30 seconds	e7e-bd5e-ca22942dea9b	
VUID     default-JOB_MANAGER-7b845c24-9d25-4e     Polling interval     30     seconds	e7e-bd5e-ca22942dea9b	
+ UUID default-JOB_MANAGER-7b845c24-9d25-4e Polling interval 30 seconds URL https://wsc3.washington.ibm.com:15446/	e7e-bd5e-ca22942dea9b otis/OMADMServlet	
UUID     default-JOB_MANAGER-7b845c24-9d25-4e     Polling interval     30     Seconds     URL     https://wsc3.washington.ibm.com:15446/	e7e-bd5e-ca22942dea9b otis/OMADMServlet	
UUID     default-JOB_MANAGER-7b845c24-9d25-4e     Polling interval     30     URL     https://wsc3.washington.ibm.com:15446/     Apply     OK Reset Cancel	a7e-bd5e-ca22942dea9b otis/OMADMServlet	
• UUID         default-JOB_MANAGER-7b845c24-9d25-4e           Polling interval	e7e-bd5e-ca22942dea9b otis/OMADMServlet	
VUID     default-JOB_MANAGER-7b845c24-9d25-4e     Polling interval     30     Seconds     URL     https://wsc3.washington.ibm.com:15446/     Apply_OK_Reset_Cancel	e7e-bd5e-ca22942dea9b otis/OMADMServlet	
UUID     default-JOB_MANAGER-7b845c24-9d25-4e     Polling interval     30     URL     https://wsc3.vashington.ibm.com:15446//     Apply_OK_Reset_Cancel	e7e-bd5e-ca22942dea9b otis/OMADMServlet	
UUID     default-JOB_MANAGER-75845c24-9d25-4e     Polling interval     30     Seconds     URL     https://wsc3.washington.ibm.com:15446/-     Apply_OK_Reset_Cancel	e7e-bd5e-ca22942des9b otis/OMADMServlet	n na Diama Materia
UUIO     default-10B_MANAGER-7b845c24-9d25-4e     Polling interval     30     seconds     URL     Iktps://wsc3.washington.ibm.com:15446/     Apply     OK     Reset     Cancel	e7e-bd5e-ca22942dea9b otis/OMADMServlet	
+ UUID default-JOB_MANAGER-7b845c24-9d25-4e Polling interval 30 seconds URL https://wsc3.washington.ibm.com:15446// Apply OK Reset Cancel	e7e-bd5e-ca22942dea9b otis/OMADMServlet	optimization
VUID     default-JOB_MANAGER-7b845c24-9d25-4e     Polling interval     30     Seconds     URL     https://wsc3.washington.ibm.com:15446/     Apply     OK     Reset     Cancel	e7e-bd5e-ca22942dea9b otis/OMADMServlet	
+ UUID default-JOB_MANAGER-7b845c24-9d25-4e Polling interval 30 seconds URL https://wsc3.washington.ibm.com:15446// Apply OK Reset Cancel	e7e-bd5e-ca22942dea9b otis/OMADMServlet	

Once registration is complete you will return to the screen listing the Job managers for which the node is registered. If you click on the UUID of the Job Manager, you'll get a screen showing the details.

Applicat	ion servers					SHARE Technology - Canactions - Result
Appli Use ti chang	cation servers his page to view a list ge the status of a spe eferences w Delete Template	: of the application ser cific application server es Start Stop 1	vers in your environment and  Restart ImmediateStop Ter	d the status of each	n of these servers. You c	an also use this page to
Selec	t Name 🗘	Node 🔿	Host Name 🗘	Version 🖒	Cluster Name 🖒	Status 🖏
You	can administer the fo	llowing resources:	•	•		
	s1sr01c	sinodec	wsc3.washington.ibm.com	ND 7.0.0.13		8
	s1sr02c	sinodec	wsc3.washington.ibm.com	ND 7.0.0.13		*
	s1sr03c	sinodec	wsc3.washington.ibm.com	ND 7.0.0.13	s1sr03	*
	s1sr03d	sinoded	wsc4.washington.ibm.com	ND 7.0.0.13	s1sr03	*
	s1sr04d	sinoded	wsc4.washington.ibm.com	ND 7.0.0.13		*
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Now that we've completed registration, we can actually do something with the Job manager.

To begin, we'll get a list of application servers using the adminconsole for the cell. As you can see, there has yet to be a server named s1sr05c created.



To create a new server, one way would be to use the Job Manager.

To start, in the adminconsole for the Job manager, open up the Jobs section, and click on Submit. On the pane which that opens, select Create application server from the dropdown selection list. Click Next.

On the next panel, select the target node (the deployment manager node for an ND cell), and provide the proper credentials. Click Next.

Submit a job to the job manager	oh. The parameters warv based on the type of foh that you previously selected.
Step 1: Choose a job type Step 2: Choose job targets → Step 3: Specify job Step 4: Schedule the job Step 5: Review the summary and submit the job	Specify job parameters Job type: Create application server  * Server name Clicking on Node name Islag05c D Additional job parameters Server template Template location Port control Generate unique ports Platform specific Specific short name [S15R05C] Generic short name [S15R05] Bit mode
Previous Next Cance	el optimization el

On the next panel you'll need to specify the new server long name (s1sr05c) and the actual appserver node long name (s1nodec).

If you open up the Additional job parameters, you'll be given the opportunity to specify the new server short names (specific and generic), and the bit mode (64bit is the default). Click Next.

			C H A D I
Schedule the job by specifying address is to receive notificatio which the job manager resides.	when the job available, when the job expires, if the job is to rerun after a period of n when the job is done. Jobs are scheduled for availability and expiration relative to	time, and what e-mail the time of the machine on	ЭПАК Technolegy · Connections · Resu
Step 1: Choose a	Schedule the job		
Step 2: Choose job targets	Job type: Create application server Notification E-mail addresses		
Step 3: Specify job parameters	mikeloos@us.ibm.com		
-> Step 4: Schedule the	Initial Availability Specify when this tob is first available.		
job Step 5: Review the summary and submit the job	Make the job available now.     Schedule availability     Date (MM/dd/yyyy)     Time (HH:mm:ss)     Expiration     Specify when this job is no longer available.		
	Obe details scheduler details     Obe details scheduler details	lş	
	Jobs can run repeatedly based on an interval. Specify the interval that the job Availability interval Run once	b is available.	
Previous Next Cance			Driving olegy

The next screen is all about scheduling. You have great flexibility for when the job will run, when it will no longer be available to run, and how often and on what interval it will be run. Since we're just creating a server on a one time basis, taking the default of run once, now, is fine. Click Next.

Submit a job t Review the further char	to the job manager options that you enteren nges to the job options.	ed. If you are satisfied with the optic	ons, click Finish to submit the job. Otherwise, click Previo	us to make
Step 1:	Choose a	Review the summary and sub	omit the job	
job type		Summary of actions:		
targets	Choose job	Options	Values	
Step 3:	Specify job	Job type	Create application server	
parame		Description	createApplicationServer	
Step 4:		Node names	s1dmnode	
the job		Notification	mikeloos@us.ibm.com	
→ Step 5:	Review the	Initial Availability	Make the job available now.	
submit	the job	Expiration	Use the default expiration.	
		User name	s1admin	
		Server name	s1sr05c	
		Node name	sinodec	
		Specific short name	S1SR05C	
		Generic short name	S1SR05	
Previous	Finish Cancel			

The next screen is a job summary panel, and if everything looks OK, simply click on Finish and the job will be submitted.

	alue of the W	/ebSphere Ap	oplicatio	on Server Jo	ob Manag	er	1	-
Job stati	us					?	S	HARE
Job st This p	tatus banel shows the status of : v. Set the find parameters	submitted jobs with a status	summary. It p	rovides links to view sta	itus at the target no	des and explore th	e job	ogy · Connections · Results
collect Statu:	tion. s summary key: Succeed	ed Partially succeeded Fa	iled Incomplet	.e				
E Find	d							
Sus	pend Resume Delete							
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Select	t Job ID 🗘	Description 🗘	State 🗘	Activation time 🗘	Expiration time 🗘	Status summary	¢	
	129554327845881071	createApplicationServer	Active	01/20/2011	01/21/2011	1		
Total	11			17107136	1/10/138			
ob statu	5					2	<u> </u>	
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The next screen, the Job status screen will start out with a Status summary of Incomplete (grey in color) and when the job completes will change to Succeeded (green) or one of the less happy colors and statuses.

Use this page to change the state Preferences	o view a list of the app us of a specific applica	lication servers in your environ ation server.	ment and the status of eac	h of these servers. You c	an also use this page to
nange the stati	us or a specific applica	ation server.			
New Delete	Templates Start	Stop Restart ImmediateS	top Terminate		
	2				
Select Name 🛟	Node 🗘	Host Name 🗘	Version 🗘	Cluster Name 🗘	Status ሷ
You can admin	ister the following reso	ources:			
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s1sr02c	s1nodec	wsc3.washington.i	ibm.com ND 7.0.0.13		8
s1sr03c	sinodec	wsc3.washington.i	ibm.com ND 7.0.0.13	s1sr03	*
s1sr03d	sinoded	wsc4.washington.i	ibm.com ND 7.0.0.13	s1sr03	8
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sisr05c	> s1nodec	wsc3.washington.i	ibm.com ND 7.0.0.13		8

If we return to the cells adminconsole and look at the list of application servers, we see that s1sr05c is now there.

If we were to check, the port assignments are all "default" values which don't do us much good on most z/OS systems. Also, nothing has been done to add the http/https ports to the virtual host list for the cell. So, we either have a choice of hand modifying the ports, running a script to modify them, or for purposes of this presentation, we're going to (behind the scenes) delete the server and re-define it using a custom wsadmin script.

Value of th	ne WebSphere	Application Ser	ver Job	Mana	ger SHARE
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:/wasv/conf: -> 11	lg/slcell/sljmg	[rc/JobManager/]	profiles	3/defai	ult/config/temp/JobManager
drwxrwxr-x	2 M.TL.OOS S1	CEG 416	Jan 20	12:16	
-rwxr-xr-x	1 M.TL.OOS S1	CFG 11895	Jan 20	12:16	createNewServerv7 pv
-rwyrwyr-y	1 M.TL.OOS S1	CFG 2215	Jan 12	17:00	appligt py
-rwxrwxr-x	1 MJL005 S1	CFG 1949	Jan 12	16:31	apportlist py
-rwxrwxr-x	1 SIADMIN SI	CFG 2960	Jan 12	15:41	appinfov2 pv
drwxrwx	6 SIADMIN SI	.CFG 384	Jan 12	11:40	
:/wasv7conf:	ig/slcell/sljmg	]rc/JobManager/]	profiles	₃/defaı	ult/config/temp/JobManager
					SHARE

The first thing that needs to happen is that the script needs to be prepositioned into the proper directory of the Job manager file system. As show, we have added a jython script, createNewServerv7.py. This script will create the server and set all values properly (in line with the naming standards we've adopted), set the ports accordingly, and add the proper ports to the virtual host alias list.

Submit a job to the job manager			SHAR
Choose the type of job that yo	u want to perform. Optionally provide a description for the job.		Technology · Connections · Res
→ Step 1: Choose a job	Choose a job type		
Step 2: Choose job	Distribute file		
targets	Description		
parameters	distributeFile		
Step 4: Schedule the job			
Step 5: Review the			
submit the job			
Submit a job to the job manager			
Step 1: Choose a job type	re entered, the user name of the console user is used to authenticate the job. Choose job targets		
Step 1: Choose a job type → Step 2: Choose job	re entered, the user name of the console user is used to authenticate the job. Choose job targets Job type: Distribute file		
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Step 1: Choose a job type → Step 2: Choose job targets Step 3: Specify job parameters Step 4: Schedule the job	re entered, the user name of the console user is used to authenticate the job. Choose job targets Job type: Distribute file Groups of nodes The groups - M Node names	A A	
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Now that the script is properly pre-positioned we can "distribute" it. This puts a copy of it into a pre-defined directory in the deployment manager file system.

To start, we go into the submit job dialog and select Distribute file from the dropdown selection list. Click Next.

On the next panel we select the target node and provide credentials. Click Next.

Submit a job to the job man	ager	<b></b>	m A n E
Enter the parameters for	he job. The parameters vary based on the format for the previously selected.	100	inong) contoining inor
Step 1: Choose a	Specify tob parameters Source is a file		
job type			
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targets	file:/createNewServerv7.py		
Step 3: Specify job parameters	* Destination		
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Step 1: Choose a job type Step 2: Choose job	Schedule the job Job type: Distribute file Nutrification		
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On the next screen we have to specify the URL of the file in the Job manager file system, and give it a name to be used at the destination.

On the next screen we can do scheduling. Same as before. Default is right now.

									-	
Submit	t a job to the job	manager						5	SHAF	2 1
Revi furth	iew the options ther changes to th	nat you ent e job optio	ared. If you are satis	fied with the option	ns, click Finish to submit t	he job. Otherwise, cli	ck Previous to m	ake	Technology · Connections	r • Resu
	Step 1: Choose i		Review the su	mmary and sub	mit the job					
			Summary of a	ctions:						
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			Description		distributeFile					
			Node names		sidmnode					
			Notification		mikeloos@us.ibm.	com				
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	submit the job		Expiration		Use the default ex	piration.				
			User name		siadmin					
			Source		file:/createNewServ	erv7.py				
			Destination		createNewServerv7	-py				
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Summary screen, click Finish.

Status screen, wait for successful completion.



As you can see, the script has now been downloaded to the deployment managers node file system. We're ready to run...

	J II A II
Choose the type of job that you Step 1: Choose a job	want to perform. Optionally provide a description for the job. Technology Connections Res. Choose a job type
Step 2: Choose job	Run vsadmin script
Step 3: Specify job parameters	Description IrunWsadminScript
Step 4: Schedule the job	
Step 5: Review the summary and	
Next Cancel	
bmit a job to the job manager	
Enter the parameters for the j	ob. The parameters vary based on the type of job that you previously selected.
Step 1: Choose a	Specify job parameters script we
Job type	Job type: Run wsadmin so
Step 2: Choose job targets	Barlipt file location
→ Step 3: Specify job	createNewServerv7.px
	Profile location The parameters for this script are: new
	Script parameters server longname, node long name, and
Step 4: Schedule	low part number
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Step 4: Schedule the job Step 5: Review the summary and	low port number.
Step 4: Schedule the job Step 5: Review the summary and submit the job	Istar05c s1modec 15540 low port number.
Step 4: Schedule the job Step 5: Review the summary and submit the job Previous Next Cance	low port number.
Step 4: Schedule the job Step 5: Review the summary and submit the job Previous Next Cance	el

This time when we get to the Job submit dialog, we select Run wsadmin script. Click Next.

On the next panel we specify the name of the script (as it was downloaded) and any parameters necessary to run it. For this script the parameters are: new server long name, target node long name, and low port number for the server. Click Next.

histor, Set the find parameters to limit the search results for submitted jobs. The results of the job search are displayed in the following Status summary key: Succeeded Partially succeeded Failed Incomplete Find Preference Suspend Resume Delete Select Job ID © Description © State © Activation time © Expiration time © Status summary © 129555710982381085 runWsadminScript Active 01/20/2011 20:58:29 01/21/2011 1 Total 1	Value of the WebS hold status Job status This speed shore the status of a	phere Applica	ation Serv	er Job Mana	ger	S H Trebuky	A R E Connections - Results
Select Job ID O       Description O       State O       Activation time O       Expiration time O       Status summary O         129555710982381085       runWsadminScript       Active       01/20/2011 20:58:29       01/21/2011       1         Total 1       Status Summary O       Image: Status Summary Summary Summary Summary Summary	history. Set the find parameters collection. Status summary key: Succeede D Find D Preferences Suspend Resume Delete	to limit the search result	s for submitted job	s. The results of the jol	o search are display(	ed in the following	
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	<u>129555710982381085</u>	runWsadminScript	Active	01/20/2011 20:58:29	01/21/2011 20:58:29	1	
	Total 1						
Slide 33	Slide 33				SHAF	Optim Influence Computing Last price Volume Area Volume Area Volume Volume Area Volume Volume Volume Volume Volume Volume Volume Volume Volume Volume Volume Volume Volume Volume Volume Volume Volume Volume Volume Volume Volume Volume Volume Volume Volume Volume Volume Volume Volume Volume Volume Volume Volume Volume Volume Volume Volume Volume Volume Volume Volume Volume Volume Volume Volume Volume Volume Volume Volume Volume Volume Volume Volume Volume Volume Volume Volume Volume Volume Volume Volume Volume Volume Volume Volume Volume Volume Volume Volume Volume Volume Volume Volume Volume Volume Volume Volume Volume Volume Volume Volume Volume Volume Volume Volume Volume Volume Volume Volume Volume Volume Volume Volume Volume Volume Volume Volume Volume Volume Volume Volume Volume Volume Volume Volume Volume Volume Volume Volume Volume Volume Volume Volume Volume Volume Volume Volume Volume Volume Volume Volume Volume Volume Volume Volume Volume Volume Volume Volume Volume Volume Volume Volume Volume Volume Volume Volume Volume Volume Volume Volume Volume Volume Volume Volume Volume Volume Volume Volume Volume Volume Volume Volume Volume Volume Volume Volume Volume Volume Volume Volume Volume Volume Volume Volume Volume Volume Volume Volume Volume Volume Volume Volume Volume Volume Volume Volume Volume Volume Volume Volume Volume Volume Volume Volume Volume Volume Volume Volume Volume Volume Volume Volume Volume Volume Volume Volume Volume Volume Volume Volume Volume Volume Volume Volume Volume Volume Volume Volume Volume Volume Volume Volume Volume Volume Volume Volume Volume Volume Volume Volume Volume Volume Volume Volume Volume Volume Volume Volume Volume Volume Volume Volume Volume Volume Volume Volume Volume Volume Volum	Antipation Biogeographics and a second secon

You'll see the same panels as before and fill them out in the same fashion and eventually you'll get to the successful completion Job status panel.

Where did the output go?



Since we didn't specify anything different, anything which would have been directed to STDOUT will go to the deployment manager servant SYSPRINT and STDERR to SYSOUT ddnames.

![](_page_34_Picture_0.jpeg)

![](_page_35_Figure_0.jpeg)

What if we want the output to go elsewhere? Any option that you can use with jython/python will work. Here is one possibility that causes the print statement to redirect to file prtout, which has been opened for output, and sent to location /tmp/listServerToFile.out.

Basically this script will print out a list of servers in a cell. Let's run it.

We would do the same type of function as we just previously did for the createNewServerv7.py script. Load the script into the Job manager file system, submit a job to distribute the file to the deployment manager file system, and then submit a job to run the wsadmin script.

Value of the W	/ebSphere Application Server Job Manag	er
Note that th	e output file will be in ASCII.	SHARE Technology - Connections - Results
VIEW Command ***** 3000001 3000002 3000003 3000005 3000005 3000005 3000007 3000007 3000007 3000009 3000010 3000011 3000012 *****	<pre>/SYSC/tmp/listServersTo d ===&gt; **********************************</pre>	File.out ************************************
Slide 37	© 2011, IBM Corporation	Comparison of the second secon

The output looks like this (it will be in ASCII).

![](_page_37_Picture_0.jpeg)

Q and A?

![](_page_38_Picture_0.jpeg)

Q and A?