

This presentation shows how to install version 7.1.1 of the ITCAM for J2EE Agent on a UNIX[®] or Linux[®] operating system. You will also learn how to check the prerequisites before you install the agent. The entire installation takes no more than few minutes to complete on any supported UNIX or Linux operating system.

	IBM
Overview of the installation process	
 Pre-requisite steps 	
 Installation steps 	
 Verifying the installation is complete 	
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The products that are used here are ITCAM for Transaction Tracking and ITCAM for Application Diagnostics V7.1 or ITCAM for WebSphere[®] V6.1. The steps that are outlined here show ITCAM for Application Diagnostics version 7.1, but will also work if you are using ITCAM for WebSphere V6.1, although the directory paths will be different. The configuration and tracing steps that are shown here are meant to be done on the Data Collector.

	IBM
Prerequisite steps	
 Check for supported operating system software here: <u>http://www-969.ibm.com/software/reports/compatibility/clarity/index.html</u> Click "Detailed System Requirements" on the left and verify that your OS is supported 	
 Check system environment, including memory, disk space, version of Java[™], and so on. Following screen captures show the commands that you use to check basic system environm before you install the agent. 	ent
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Before you install the ITCAM for J2EE Agent v7.1.1 component, verify that you are using a supported operating system. Click the link that is shown here and select Detailed System Requirements on the left. From there, you can generate a report on the website and verify the OS requirements. After you verify that you have a supported operating system, then run some basic commands to verify disk and memory requirements, version of Java, and so on.

	IBM
Prerequisite steps	
Step 1: Check Java version, OS level, and system environment	
🚱 953.116.102 - PuTTY	
rool@nc9053116102 fp ≱ pwd /tmp/fp root@nc9053116102 fp \$ java -version java version "1.5.0"	
Java(TM) 2 Runtime Environment, Standard Edition (build pap32devifx-2013070 2 (SR16 FP3)) TEM JR VM (build 2.3 J2RE 1.5.0 JEM JR 2.3 ATX ppc-32 jstmap3223ifx-201306	
13 (JIT enabled)	
JIT - 20121221_30553_r6	
$GC = 20120911_AA)$ JCL = 20130702	
root@nc9053116102 fp 3 uname -a AIX nc9053116102 1 7)0F75D4B4200	
root@nc9053116102 fp \$	
7100-03-00-0000	
root@nc9053116102 fp \$	
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This example uses IBM AIX[®] 7.1 with Maintenance Level 03 applied. You can use any supported flavor of UNIX or Linux. If you are using Linux, some commands that are shown here might not apply to the Linux OS. You can use either the IBM or the Sun Java SDK; both will work. You have to install the product either as 'root' or the IBM Tivoli[®] Monitoring administrative user if you have one created.

							IBM
Prerequisite steps							
Step 2: Check disk space, file size, and check sum							
₽ 953.116.102 - PuTTY	🧬 9.53.116.102 - Pu	TTY	-			U 0	
oulgne9053116102 [p 3 1s -al otal 890344 rwwr-wr-y 2 root swstem 4096 Ang 23 09:37	Filesystem	MB blocks	-m Free 2346 88	SUsed	Iused	%Iused Mount	ted on
wxrwxrwt 20 bin bin 4096 Aug 23 11:20	/dev/hd2	4096.00	2026.25	51%	44811	9% /usr	
w-rr 1 root system 455843840 Aug 23 09:35 ITCAM_AGT_FOR_J2EE	/dev/hd9var	3072.00	2687.79	13%	7062	2% /var	
/.1.1.0, AIX, tar	/dev/hd3 /dev/hd1	6144.00	4078.53	34%	135	1% /tmp	
505 445160 ITCAM AGT FOR J2EE V/.1.1.0, AIX,.tar	/dev/hd11admin	128.00	127.63	18	257	1% /adr	nin
ot@nc9053116102 fp \$	/proc	_	_	-	_	- /pros	_
յենսութ053116102 քը ֆ 🗧	/dev/hd10opt	7040.00	1901.80	738	12052	3% /opt	
	/dev/livedump	256.00	255.64	18	4	1% /var	adm/ras/livedur
	/aha root@nc905311	- 5102 fp 3				1% /aha	
	1			-			

Check the disk space in the default /opt directory by using the "df –m" command. If you are installing to a different directory, check space in that directory. You would need a bare minimum of at least 3 - 5 GB to start to install the basic files and do basic logging. Before you install, check the file size and check sum on the file to be sure that it is not corrupted. Use the commands that are shown here.

	IBM
nstallation steps (1 of 6)	
Step 1: Bun the install sh command and install to local host	
-rwxrwxrwx 1 root system 6921 Jul 10 22:11 silent_config.txt -rwxrwxrwx 1 root system 3528 Jul 10 22:11 silent_install.txt drwxrwxrwx 5 root system 4096 Jul 10 22:11 unix root@nc9053116102 fp \$./install.sh	
Enter the name of the IBM Tivoli Monitoring directory [default = /opt/IBM/ITM]:	
"/opl/IBM/ITM" does not exist Try to create it [1-yes, 2-no; "1" is default]? 1	
Select one of the following:	
 Install products to the local host. Install products to depot for remote deployment (requires TEMS). Install TEMS support for remote seeding Exit install. 	
Please enter a valid number: 1	
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Extract your .tar file and run the install.sh script. You will install to the local host by default until you want to install to the depot for remote deployment.

	IBM
Installation steps (2 of 6)	
Step 2: Select the product to install and press Enter	
🕞 9.53.116.102 - PuTTY	
R7.1 (64 bit)	
All agents require that application support files that contain agent-specifi c information be installed on the Tivoli Enterprise Monitoring Server that t he agents will connect to, Tivoli Enterprise Portal Server and Tivoli Enterp rise Portal desktop and browser client. Install application support before s tarting to install any Tivoli Enterprise Monitoring Agents.	
The following products are available for installation:	
 IBM Tivoli Composite Application Manager Agent for J2EE V07.11.00.00 all of the above 	
Type the numbers for the products you want to install, type "b" tc change op erating system, or type "q" to quit selection. If you enter more than one number, separate the numbers by a comma or a spac e.	
Type your selections here: 1	
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After you accept the agreement and press enter for the encryption key, you will be prompted to select the product. Choose 1 here and install. The code detects the correct operating system.



If your selection is correct, press Enter. You will see the installing message.

	IBM
Installation steps (4 of 6)	
Step 4: Choose "2" when prompted to install additional packages	
🗗 953.116.102 - PUTTY	
The following products will be installed:	
IBM Tivoli Composite Application Manager Agent for J2EE V07.11.00.00	
Are your selections correct [1=Yes, 2=No ; default is "1"] ? 1	
installing "IBM Tivoli Composite Application Manager Agent fcr J2EE VO 7.11.00.00 for AIX R5.3, R6.1, R7.1 (64 bit)"; please wait.	
=> installed "IBM Ti/oli Composite Application Manager Agent for J2EE V07. 11.00.00 for AIX R5.3, R6.1, R7.1 (64 bit)".	
Initializing component IBM Tivoli Composite Application Manager Agent fo	
IBM Tivoli Composite Application Manager Agent for J2EE V07.11.00.00 fo r AIX R5.3, R6.1, R7.1 (64 bit) initialized.	
Do you want to install additional products or product support packages [1=x es, 2=No ; default is "2"] ? 2	
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After the installation is complete, you will be prompted if you want to install additional products. Choose option "2" and press Enter.



You will now be prompted if you want to secure the installation. Choose option "2" and press Enter.



You will now return back to the command-line prompt. Run *echo* \$? and observe the return code; it should be zero. If it is not zero, the installation failed. Check the logs, as shown in the next slides.

	IBM
Verifying the installation is complete	
 To be sure that your installation of the agent is complete, check these things: Check return code, it should be zero Check the files under the /opt/IBM/ITM directory Check the version of the product installed Check the installation log files 	
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Here you see the four checks that you can do to verify that the installation completed successfully.



When you finish installing, check the return code immediately after you come back to the command-line prompt by running *echo* \$?. If the return code is not zero, you have to check the logs under the /opt/IBM/ITM/logs directory for more information.

			IBM
erification options ((2 of 4)		
Option 2: Check installed	d files under the /opt/IE	3M/ITM directory	
P 9.53.116.102 - Pi	PUTTY		
Local Que:905311	16102 TTM S UNIT		
/opt/IBM/ITM	IOIOZ IIM Ş pwd		
root@nc905311	16102 ITM \$ cd aix533/vi		
root@nc905311	16102 vi 3 pwd		
/opt/IBM/ITM/	/aix533/yj		
root@nc905311	16102 yj ș is -ai		
total 8			
drwxrwxrwx	8 root system	256 Aug 23 11:24 .	
drwxrwxrwx	3 root system	256 Aug 23 11:24	
drwxrwxrwx	2 root system	256 Aug 23 11:24 bin	
drwxrwxrwx	2 root system	256 Aug 23 11:24 config	
drwxrwxrwx	2 root system	256 Aug 23 11:24 hist	
drwxrwxrwx	3 root system	256 Aug 23 11:24 j2eedc	
drwxrwxrwx	2 root system	4096 Aug 23 11:24 lib	
drwxrwxrwx	4 root system	256 Aug 23 11:24 tables	
rootenc905311	16102 Y] ş		
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Check the files under the directory that is shown here. If you do not find these subdirectories, check the logs for more information.



Check the version.properties file under the directory that is shown here. If it does not show that the version is 7.11, check the logs for more information.

			IBM
Verification options (4 c	of 4)		
	/		
Option 4: Check the installation	log files		
	sense where we wanted to be a set		1
6- 9.53.110.102 - PUTTY			
root@nc9053116102	logs \$ pwd		
root@nc9053116102	logs \$ ls -ltr		
total 120			
-rwxrwxrwx 1 ro	oot system 26133	Aug 23 11:24 install_plugin_tra	
ce_verfiles.log			
-rwxrwxrwx 1 ro	oot system 1947	Aug 23 11:24 itm_install_output	
-rwyrwyrwy 1 ro	oot system 3995	Aug 23 11:24 itm install trc	
-rwxrwxrwx 1 ro	ool system 1851	Aug 23 11:24 itm install.log	
-rwxrwxrwx 1 rc	oot system 0	Aug 23 11:24 itm_synclock.trc	
-rwxrwxrwx 1 ro	oot system 0	Aug 23 11:24 itm_synclock.log	
-rwxrwxrwx 1 rc	oot system 0	Aug 23 11:24 itm_config.trc	
-rwxrwxrwx 1 ro	oot system 0	Aug 23 11:24 itm_config.log	
	Soc System 10516	Aug 23 11:24 Candle_Installatio	
-rw-rw-rw- 1 rc	oot system 164	Aug 23 11:24 itmsecure 08231411	
2445.log			
-rw-rw-rw- 1 rc	oot system 546	Aug 23 11:24 UpdateAutoRun.log	
root@nc9053116102	logs Ş	-	•
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The log files are in the /opt/IBM/ITM/logs directory. The two installation logs are itm_install.trc and itm_install.log.

	IBM
More installation information	
One installation script installs both the DC and TEMA on the same host	
 Compatible with IBM Tivoli Monitoring 6.2.3 and IBM Tivoli Monitoring 6.3. 	
 Recommended IBM Tivoli Monitoring level is IBM Tivoli Monitoring 6.2.3.4 or higher 	
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Here is some additional information for the installation process. The installation process installs both the Data Collector and Tivoli Enterprise Monitoring Agent in version 7.1.1; no additional installations are required.

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Unix/Linux OS

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