



Maximo 7.5 Installation



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Agenda

- Architecture
- Overview
- What's New
- Installation Options and Settings
- TaskRunner
- Deployment Engine
- Logs
- Concerns
- Troubleshooting
- Resources
- Q&A







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Architecture

- Application Server
 - WebSphere Application Server 7.0.0.15 (runs support of WebSphere 8)
 - Oracle WebLogic Server 11g Release 1 (10.3.3) and future fix packs
- Database
 - Oracle 10g Release 2 10.2.0.4, Oracle 11g Release 1, Oracle 11g Release 2
 - Microsoft SQL Server 2008, Microsoft SQL Server 2008 R2, Microsoft SQL Server 2008 SP1
 - DB2 Enterprise Server Edition 9.5.0.7 and future fix packs, DB2 Enterprise Server Edition 9.7.0.3 and future fix packs, DB2 9.8 PureScale
- Directory Server
 - Microsoft Active Directory 2008 R2
 - Tivoli Directory Server v6.3



Architecture

- Middleware Installer
 - Microsoft Windows Server 2003 SP2, Microsoft Windows Server 2003 R2 SP2
 - Microsoft Windows Server 2008 SP1, Microsoft Windows Server 2008 R2
 - SUSE Linux Enterprise Server SP2 10.0
 - SUSE Linux Enterprise Server 11.0
 - Red Hat Enterprise Linux v5 U2
 - Red Hat Enterprise Linux v6
 - AIX 6.1
 - AIX 7.1
- Solaris and HP-UX is a manual install of middleware



Architecture

- Administrative workstation
 - Windows Server 2003, Windows Server 2003 R2
 - Windows Server 2008, Windows Server 2008 R2
 - Windows Vista
 - Windows XP SP2
 - Windows 7

Browser

- Internet Explorer 7,8
- Firefox 3.6

Java

- Java version 1.6.0 SR8 FP1



Architecture

Windows 2008 Server Notes

- Security changes to be made prior to installing Maximo
 - · Create a local administrator account and use that account to install
 - Disable the Windows Firewall Service during the Maximo install
 - Turn off User Account Control (UAC)
 - Turn off Data Execution Prevention (DEP)
- Launch any executable, command file, etc.
 - Right-click and select "Run as administrator"



Architecture

- For optimal application performance, plan on one JVM for every 40 users (32- bit OS). The installation program sets maximum memory to 1.5 GB for 32-bit platforms and 4 GB for 64-bit platforms if automatic configuration for WebSphere is selected
- Note: Every implementation is different. 40 users per JVM is a guideline. Real World load testing must be done in each implementation to determine that number



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Overview

- Middleware
- process automation engine (Maximo)
- Process Solution Installer (PSI)
- Deployment Engine (DE)
- Fix Pack





Middleware

- IBM middleware components installed automatically via middleware installer
 - Download middleware package(s)
 - Extract all to same location
- Non IBM middleware components must be installed manually before Maximo installation

Middleware

- Database
 - Enable Text Searching
 - Storage
 - User(s) and rights
 - Oracle
 - CURSOR_SHARING=FORCE





Middleware

- J2EE Server
 - Enable Administrative Security if using WebSphere
 - Middleware installer enables
 - Do not configure Application Server Security during Maximo installation. Configure Application Server Security after the installation
 - Remove Program Files from all directory paths if installing on Windows



process automation engine

- Maximo installed on Windows administrative machine
- Contains common functionality Tivoli process automation engine
- Launchpad option Maximo Asset Management
- Multiple Maximo installations on one administrative machine



Process Solution Installer (PSI)

- Used to install the different components
- PSI provides a common deployment mechanism for Process Solutions
- PSI supports deployment of both Process Manager Products (PMPs) and Integration Modules (IMs)



Deployment Engine (DE)

- PSI is based around a common component called Autonomic Deployment Engine (DE) which defines an installable package format and provides a set of runtime services used to install those packages
- In order to be installed via PSI, an installable package must adhere to the DE packaging structure
- DE database contains information regarding products installed (c:\ibm\smp\ctg_de\acsi)



Fix Packs

- Collection of APAR fixes
- Uses PSI to install

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What's New

- Multiple Maximo installs on same administrative machine as same admin user
 - Install location panel during 7.5 installation

堰 Maximo Asset Management	
	Choose installation folder
· _ ·	Select the installation location you wish to work with from the drop-down box. If the location is not listed, or if this deployment is a new installation, you can enter the location or browse to select one.
	C:\IBM\SMP
	Description for this installation.
	Edit description
InstallAnywhere	
Cancel	Previous <u>Next</u>
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What's New

- No Global Deployment Engine (DE) or local user DE
- Deployment Engine (DE) private to Maximo install (ibm\smp\ctg_de folder)
 - New DE version 1.4
 - No DE service running (ADE engine)
- Middleware DE is installed inside MWI workspace under DE folder
- DE updated prior to updatedb and EAR deploy



What's New

New installation logs

CTGSummary00.log

- Contains the message entries plus a subset of the information currently traced in the trace log
- Cluttering reduced by eliminating the java class full qualified names and the method names.
- Timestamp of entries from the new trace can be used to locate detailed logging in the full trace file

CTGError.log

- Captures only failure output containing
 - · Logs to identify run dates and installer version information
 - Any trace with an exception/throwable
 - Severe level traces



What's New

New installation logs

Notes:

- While the CTGInstallMessage00.log is about 1% of the messages from the trace, the new CTGSummary00.log trace will contain about 10% of the traced entries
- The data that goes into the CTGInstallMessage00.log and CTGInstallTrace00.log has not changed



What's New

- Language Pack installation now part of Maximo 7.5 install
 - Base language selected
 - Additional language(s)
- Pre-req checker
 - Middleware pre-req checker
 - Option on launchpad
 - Optional
 - Command line option
 - Inputs through properties file or interactive mode
 - Check middleware products one by one or all together
 - Status report



What's New	
🕘 Maximo Asset Management	
Maximo Asset Manageme	ent Select a language: English OK
Welcome Installation Planning Install Product Information Center Exit	IBM Maximo Asset Management 7.5 Installation 1. Install the middleware (Optional) Click on this link to verify that you meet the requirements to install the Middleware. (@) Verify installation requirements Select the Optional Middleware Link first only if you want to have the DB2 Database, the IBM WebSphere Application Server or the Tivoli Directory Server Installed and Configured. All other databases and Web Applications servers (e.g. BEA Weblogic, Oracle, SQL Server) must be installed manually prior to the installation of IBM Maximo Asset Management. (@) Middleware 1. Install IBM Maximo Asset Management 7.5 (Required) Select Maximo Asset Management 7.5 (Required) Select Maximo Asset Management below to launch the installation.
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What's New

Pre-req checker

C:\Windows\system32\cmd.exe network.availablePorts.j2ee9201 FAIL 80,135,445,11 9201 network.availablePorts.j2ee9202 FAIL 80,135,445,11 9202	×			
network.availablePorts.j2ee9201				
network.availablePorts.j2ee9353 FAIL 80,135,445,11 9353 network.availablePorts.j2ee9405 FAIL 80,135,445,11 9405 network.availablePorts.j2ee9406 FAIL 80,135,445,11 9406 network.availablePorts.j2ee9443 FAIL 80,135,445,11 9443 network.availablePorts.ihs FAIL 80,135,445,11 80 network.availablePorts.ihs FAIL 80,135,445,11 80 network.availablePorts.ihsAdmin FAIL 80,135,445,11 8008 Disk#6 (C:\Program Files\IBM\WebS PASS 161.53GB 1.32GB Disk#7 (C:\Program Files\IBM\WebS PASS 161.53GB 477MB Disk#8 (C:\Program Files\IBM\HTTP PASS 161.53GB 1.02GB				
ALL COMPONENTS : Property Result Found Expected ======= ==== ===== ===== C: PASS 161.53GB 6.46GB				
Prereq Scanner Overall Result: FAIL CTGIN8118I : The Tivoli Pre-requisite Scanner exited with the return code "1" CTGIN8126I : To start the prerequisite verification utility in interactive mode or add additional parameters and custom values to the verification process, star t the utility from the command line: C:\MX75IN~1\mx75\Install\MWI\SystemRequirements\tpae_req_check.bat Press any key to continue				

What's New

Install validation

• Middleware

o Validates the health of the middleware components

o Command line option

• Maximo

o Validates the health of the product installation

o Command line option





What's New

- WebSphere Network Deployment v7
 - Migration option to migrate v6.1 profile to v7
 - Manual install of v7 on same machine as v6.1
 - Migration tool
 - V6.1 no longer useable
 - -MWI
- WebSphere configuration settings to be inline with performance best practices with WebSphere automated configuration



What's New

- Performance Enhancement on Deployment
 - Update of the database (updatedb) is only run once at the end of the install(s)
 - Build and deploy of EAR files task is only run once at the end of the install(s)
 - Both tasks of updating the database and deploy of EAR happens after installation of components are complete. (i.e. after the DE registered the packages)





Installation Options and Settings



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Installation Options and Settings

- Use Middleware Installer for IBM middleware components (DB2, WebSphere, Tivoli Directory Server)
- Remote access to all servers at the Administrator level
- Local Administrator/User to server (not Domain user)
- Maximo must be installed on Windows
- Disable Firewall
- Select Configure manually later when presented

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Maximo Installation

 Follow through the screens to the Choose installation folder dialog

V Maximo Asset Management	
	Choose installation folder
	Select the installation location you wish to work with from the drop-down box. If the location is not listed, or if this deployment is a new installation, you can enter the location or browse to select one.
•=	C:\IBM\SMP
	Description for this installation.
	Default location
	Edit description
Installâmurkara	
Cancel	Previous <u>Next</u>

Select installation location



Maximo Installation

 Once install has passed the Location Validation Panel you cannot go back and choose a new installation location without exiting and restarting the installation



Maximo Installation

 Follow through the screens to the Import Middleware Configuration Information dialog

Naximo Asset Management	
	Import Middleware Configuration Information
	If the middleware installation program was not used to install and configure the middleware, click Next. Check this box to import the configuration information recorded by the middleware installation program. Provide the information for the server where the middleware installation workspace is located. Enter a fully qualified host name or IP address. The user ID must have remote access privileges to the server. Import middleware configuration information Host name User ID Administrator Password Confirm password Workspace location C: \bm\\tivoli\mwi\workspace
Cancel	Previous Next

 Recommendation - Do not select Import middleware configuration information

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Maximo Installation

 Follow through the screens filling in the correct data to the Automate Database Configuration Information dialog



- Select Automate database creation and configuration If only the database was created
- Select The database has already been created and configured If database, tablespaces, users, etc. were created
- Recommendation Manually configure the database and select The database has already been created and configured

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Maximo Installation

 Follow through the screens filling in the correct data to the Application Server Type, if using WebSphere

🐙 Maximo Asset Management	
	Application Server Type
	Select the application server type. The WebSphere Application Server can be configured automatically but the WebLogic Server requires manual configuration. IBM WebSphere Application Server If you would like to automate the configuration steps, the server must have a remote access protocol enabled. For UNIX servers, the ssh or rsh rexec protocol is required. For Windows servers, the ssh or SMB protocol is required. If you choose not to have this installation program automatically configure WebSphere, you must configure WebSphere manually before running this installation. Configuration tasks include creating a profile, copying the WebSphere keystore file to the administrative workstation, setting up JMS queues, and so on. Refer to the installation guide for details on manually configuring the WebSphere server. Automate WebSphere configuration
InstallAnywhere	C Oracle WebLogic Server
Cancel	Previous Next

- Select Automate If MXServer and JMS Queues configuration has not been done
- Select Do not automate If MXServer and JMS Queues configuration has manually been done
- Recommendation Select Automate WebSphere configuration

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Maximo Installation

Follow through the screens filling in the correct data to the Security dialog

🐙 Maximo Asset Management	
	Security
-	• Use application server and LDAP for authentication and user/group management With this option, you create all your users and security groups in your directory (LDAP) server. The information from the directory server is updated in your Maximo database by using a cron task. With this option, you can create additional security groups and assign group memberships in Maximo. All users must be added in the directory - adding users is not allowed in Maximo. Information entered in Maximo is never propagated to your directory. This option requires application security to already be enabled in WebSphere.
	 Use application server and LDAP for authentication only With this option, you can create your users and groups in the directory (LDAP) server or in Maximo. The information from the directory server is updated in your Maximo database by using a cron task. With this option, you can create additional users, security groups and assign group memberships in Maximo. Information entered in Maximo is never propagated to your directory. This option requires application security to already be enabled in WebSphere. Use Maximo internal authentication
	With this option, a directory server is not required. You create and manage users and groups in the Users and Security Groups applications, separately from any corporate user data you might have.
InstallAnywhere Cancel	Previous Next

 Select Use Maximo internal authentication (Configure Application Server Security after the installation)

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Maximo Installation

 Follow through the screens filling in the correct data to the Run Configuration Step dialog

Naximo Asset Management	
	Run Configuration Step
	Decide how you would like to deploy the product. If you do not select any of these options, the installation program deploys the product automatically and perform configuration.
:= ■	Select this option if you would like to copy files from the installation source to the administrative workstation and perform the configuration step at a later time. You might choose this option if you intend to change the system before running the configuration step. You must use the TASKRUNNER utility to complete the configuration step and conclude the deployment.
	Copy files now, but perform the installation configuration step later
	Select this option if you would like to manually deploy application files to WebSphere. Application EAR files are created, but they are not automatically deployed. You must manually deploy them at a later time. You might choose this option if you intend to install more than one ISM product. Application files are rebuilt during each product installation. Using this option, you can defer deploying application files until they are finalized.
	Deploy application files manually later
	Select this option if you would like to manually run the database update task for the product deployment. You must manually run the updatedb command to write data to the Maximo database in order to complete the deployment. The installation program is limited to copying files to the administrative system and registering product process solution packages. This option can be used in cases where there is a fix pack available that addresses known issues with the updatedb script. In this scenario, you would chose the Defer the update of the Maximo database option, apply the fix pack, and then run the updatedb command manually. This option also requires that you deploy the EAR files manually later.
	Defer the Update of the Maximo Database
InstallAnywhere	Previous

- Select Copy files now, but perform the installation configuration step later
- Select Deploy application files manually later





A moment to talk about TaskRunner



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TaskRunner

- Runs the configuration and creates the Maximo objects in the database
- From Command Prompt ibm\smp\scripts (open with "Run as administrator") – taskrunner.bat CONTINUE STOPONERROR
- Can restart and will start from last completed step



TaskRunner

Administrator: cmd - Shortcut
TaskID: ProcessManagerPackage TaskAction: runConfigurationStep ReturnCode: 0 Completion Message: CTGIN2253I: CmnReportAction completed successfully.
TaskID: ProcessManagerPackage TaskAction: verifyCompletion ReturnCode: 0 Completion Message: CTGIN2379I: Maximo Database configurat ion is verified successfully.
TaskID: J2eeDeployment TaskAction: runConfigurationStep ReturnCode: 0 Completion Message: CTGIN2208I: runConfigurationStep compl eted successfully.
TaskID: J2eeDeployment TaskAction: verifyCompletion ReturnCode: 0 Completion Message: CTGIN2211I: verifyCompletion completed successfully. Deleting task store file C:\IBM\SMP\etc\CCMDBTaskRunnerStore
Configuration completed at Thu 06/09/2011 16:41:54.76
ERRORLEVEL was 0 from command.
Exiting taskrunner at Thu 06/09/2011 16:41:54.76 with ERRORLEVEL 0
C:\ibm\SMP\scripts>_



Build EAR Files

- From command prompt change to ibm\smp\maximo\deployment (open with "Run as administrator")
 - Run buildmaximoear
 - Run buildmxiehsear

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Deploy EAR Files

Deploy EAR files (WebSphere)

- Log into the WebSphere Integrated Solutions Console
- Expand Applications
- Expand Application Types
- Click WebSphere enterprise applications
- If the Maximo and MXIEHS applications are listed o Select both and click Uninstall
- Click Install
- Browse to location of the EAR files (ibm\smp\maximo\deployment\default)
- Click Next
- Click Next
- Click Next
- Click Next
- Select all modules and select MXServer and webserver1 and click Apply
- Click Next



Deploy EAR Files

- Deploy EAR files (WebSphere)
 - Select the maximo_host virtual host for each module
 - Click Next
 - Click Finish
 - When EAR is deployed click Save to Master Configuration
 - Repeat deploy process for Maximo Help EAR





Deployment Engine



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Deployment Engine

- Installed to c:\ibm\smp\ctg_de\acsi
- Backup/restore

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Deployment Engine

- View contents of DE
 - Run Listiu
 - Command prompt change to Program files\ibm\smp\ctg_de\acsi
 o Run setenv
 - Change to bin folder
 - o Run listiu

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Deployment Engine

- IU UUID: DDCE934782398B3E81431666515AC8B5 Name: DE Extensions Interfaces CLI IU Version: 1.4.0.13
- IU UUID: C37109911C8A11D98E1700061BDE7AEA Name: Deployment Engine IUVersion: 1.4.0.13
- IU UUID: 39BC4EED169A46BCBABE2CF84E9B92F4 Name: MAM71_PACKAGE_IU Version: 7.5.0.0
- IU UUID: 3D2FFFEAA4C34409A21320BD5593574A Name: MADT_Install_Files Version: 7.5.0
- IU UUID: 443D6188FFFFBEEFBABEAB257CFFFFFF Name: CCMDB Log Trace Analyzer PM Language Support IU Version: 7.5.0.0
- IU UUID: 0794CE26E761421987D484491844F7DF Name: LTA_WAR_Package_IU Version: 7.5.0.0
- IU RootIU UUID: 167210CE0B3E47D395F906A9C939E9DB Name: MADT_RootIU Version: 7.5.0
- IU RootIU UUID: 56CB9E49C593486BBE0B140FC9796034 Name: LTA_WAR_Package Version: 7.5.0.0
- IU RootIU UUID: 70E41B7F4A204AB9B0131EB6E28E80AA Name: EAM711Package Version: 7.5.0.0
- IU RootIU UUID: D94240D11C8B11D99F2D00061BDE7AEA Name: Install IU Version: 1.4.0.13

Feature (RootIU UUID: 56CB9E49C593486BBE0B140FC9796034 Name: Log Trace Analyzer

PM Language Support Feature)Feature Name:Log Trace Analyzer PM Language Support Feature



Deployment Engine

- View contents of DE
 - Run Solutioninstaller
 - Command prompt change to ibm\smp\bin
 - o Run solutioninstaller -action showinstalled -type all

 $C:\!\!\mathsf{ibm}\\!\mathsf{SMP}\\!\mathsf{bin}\!\!\mathsf{solution}\\!\mathsf{installer}\\!\mathsf{-action}\\!\mathsf{show}\\!\mathsf{installed}\\!\mathsf{-type}\\!\mathsf{all}$

CTGIN0055I: The process solution installation client received the following command: "-action showinstalled -type all ".

CTGIN0054I: The command is correctly formed and will be sent to the process solution installation service.

CTGIN0059I: There are currently "3" installed process solution element packages that matched the specified criteria.

Name	Version	Solution Type	Package Type	Unique Identifier	
	=====				
Application Deployment Toolkit 7.5.0 Process Manager Product Full Update 167210CE0B3E47D395F906A9C939E9DB					
Maximo Asset Management Package 7.5.0.0 Process Manager Product Full Update 70E41B7F4A204AB9B0131EB6E28E80AA					
process automation engine Package 56CB9E49C593486BBE0B140F	e 7.5.0.0 C979603	Process Manager Produc 4	ct Full Update		
				IDM Cofficience Crossing Timeli Cofficience	



Deployment Engine

- Backup DE
 - From command prompt change to c:\ibm\smp\ctg_de\acsi
 - Run setenv
 - Change to bin folder
 - Run backupdb <backupfile>
 - i.e. backupdb c:\ibm\smp\de_backups\maximo75



Deployment Engine

- Restore DE
 - From command prompt change to c:\ibm\smp\ctg_de\acsi
 - Run setenv
 - Change to bin folder
 - Run restoredb <backupfile>
 - i.e. restoredb c:\ibm\smp\de_backups\maximo75





Logs

- DE Runtime Trace Logs (Maximo Admin Machine)
 - C:\ibm\smp\ctg_de\acsi\logs\<userid>
 - de_trace.log
 - de_install.log
 - de_msg.log
- Install Trace Logs (Maximo Admin Machine)
 - ibm\smp\logs\CTGInstallTracenn.log
 - ibm\smp\logs\ CTGInstallMessagenn.log
 - ibm\smp\logs\ CTGSummarynn.log
 - ibm\smp\logs\ CTGErrornn.log
- WebSphere Server Trace Logs (WebSphere Machine)
 - $-\ ibm \ websphere \ profiles \ maximoprofile-name \ logs \ mxserver \ folder$
 - SystemOut.log
 - SystemErr.log
 - Trace.log



Logs

- Maximo Logs (Maximo Admin Machine)

 ibm\smp\maximo\tools\maximo\log
- Package-Specific Action Trace Logs (Maximo Admin Machine)
 - ibm\smp\solutions\logs\<package-name>
- LogZipper
 - Zips related log files
 - ibm\smp\scripts
- In temp folder during the installation before ibm\smp\logs folder created



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Concerns

- Multiple versions of installer
- Installer lays down a file with the build number
 - Build number in file build.name (ibm\smp\logs)
 - Build number 201104152149 7.5 GA level (April 2011 release)
 - Build number 201104151659 7.5 Refresh #1 level (May 2011)



Concerns

- Properties are stored in the Maximo database, and in ibm\smp\maximo\applications\maximo\properties\maximo.pro perties and ibm\smp\etc\install.properties
 - maximo.properties precedes database value
 - Product installations look at both properties files
 - Properties and values in the maxprop and maxpropvalues tables



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- Gather the logs via logzipper
- Connectivity test tools
 - Remote connectivity TestRXA
 - ibm\smp\scripts folder
 - Testrxa <hostname> <username> <password>
 - WebSphere connectivity Thinwsadmin
 - Ibm\smp\wasclient folder
 - Thinwsadmin –username <username> -password <password>
 - Verify values in the thinwsadmin are correct for WebSphere environment
- Properties in maximo.properties, install.properties and maxpropvalues
 - Maximo.properties ibm\smp\maximo\applications\maximo\properties
 - $\ Install. properties ibm \ smp \ etc$
 - Maxpropvalues table





- Errors during the taskrunner process
 - Gather the logs via logzipper
 - Review the CTGSummary00.log and CTGError00.log in the ibm\smp\logs folder
 - The last error in the log may not be the issue. Search up from that error
 - Ac.si errors are typically DE errors
 - Review the de_trace.log in the C:\ibm\smp\ctg_de\acsi\logs\<user>
 folder



- Errors during a solution install step during taskrunner
 Review the solution logs in the ibm\smp\solutions\logs\<solution> folder
- Errors during update database step during taskrunner
 - Review the updatedb.log in the ibm\smp\maximo\tools\maximo\logs folder



- Once errors are addressed taskrunner can be started again
 - From command prompt change to ibm\smp\scripts
 - o taskrunner CONTINUE STOPONERROR



- Summary
 - Review the solution installer and DE logs
 - Verify install related properties in the maximo.properties file, maxprop table, maxpropvalue table, and install.properties
 - Verify Deployment Engine status
 - LogZipper to send logs to IBM Maximo Support



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Resources

- Maximo Info Center
 - <u>http://publib.boulder.ibm.com/infocenter/tivihelp/v49r1/index.jsp?topic=/</u> <u>com.ibm.mam.doc/welcome.html</u>
- Maximo 7.5 What's New
 - <u>http://publib.boulder.ibm.com/infocenter/tivihelp/v49r1/index.jsp?topic=/com.ibm.mam.doc/overview/whatsnewmam75.html</u>
- System Requirements
 - <u>http://www.ibm.com/developerworks/wikis/display/maximo/System+Req</u> uirements+for+Version+7.5+Maximo+Products
- Maximo 7.5 Packaging
 - https://www-304.ibm.com/support/docview.wss?uid=swg21498420
- Maximo Asset Management 7.5

 https://www-304.ibm.com/support/docview.wss?uid=swg24029458
- Configuration Maxtrix
 - https://www-304.ibm.com/support/docview.wss?uid=swg27014419

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Resources

- WebSphere Settings
 - https://www-304.ibm.com/support/docview.wss?uid=swg21498645
- Pre-Req Checker
 - https://www-304.ibm.com/support/docview.wss?uid=swg21498097
- process automation engine wiki
 - <u>https://www.ibm.com/developerworks/wikis/display/tivolispa/Home</u>
- Performance Best Practices White Paper
 - https://www-304.ibm.com/support/docview.wss?uid=swg21440192
- Windows 2008 command prompt
 - https://www-304.ibm.com/support/docview.wss?uid=swg21458965
- Installation of Maximo 7.x on Windows 2008
 - https://www-304.ibm.com/support/docview.wss?uid=swg21502398
- Multiple Environments on one Administrative Machine
 - https://www-304.ibm.com/support/docview.wss?uid=swg21498585

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Q&A

Questions

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