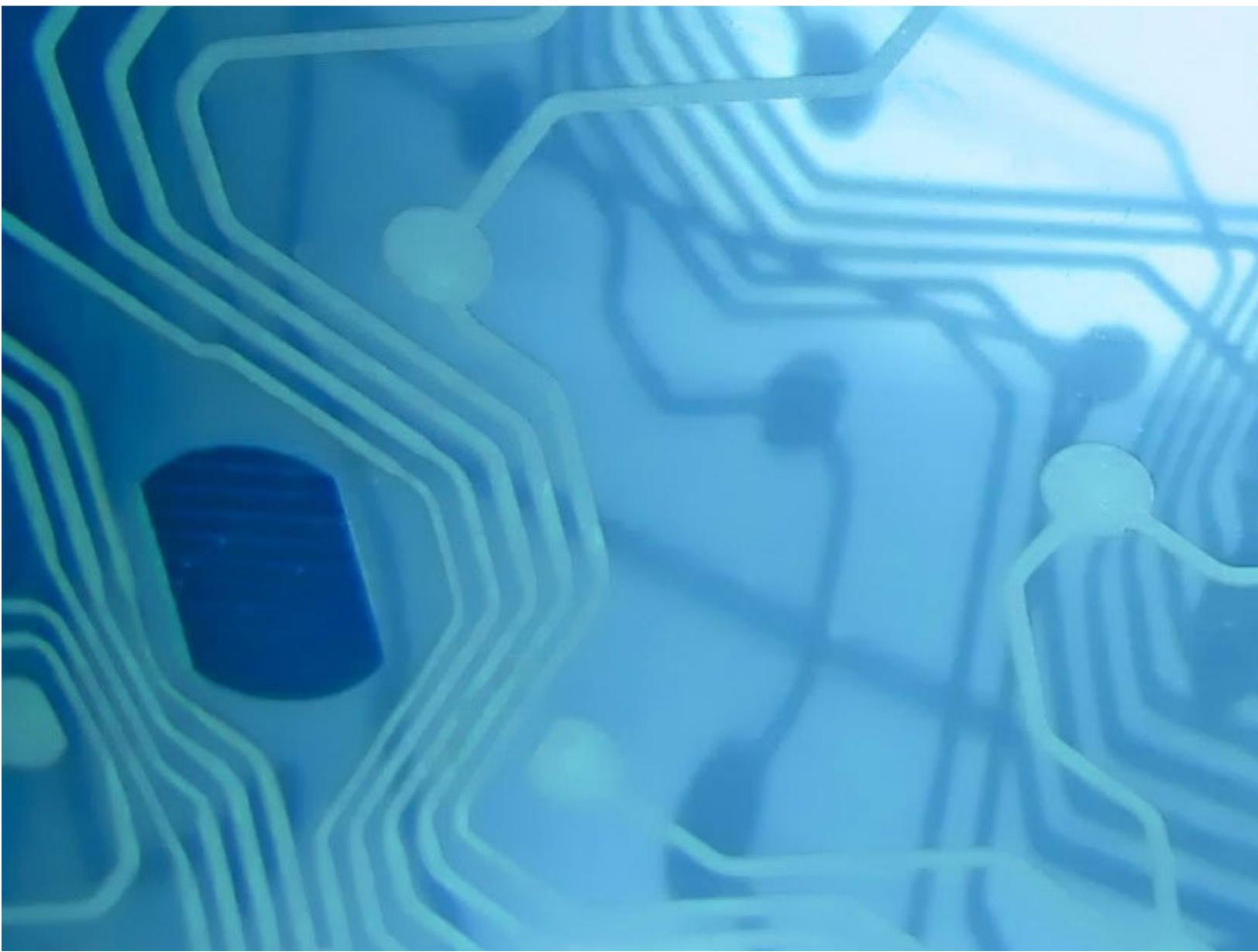




WebSphere Application Server V8.5 for z/OS

WBSR85

Unit 5 - Installation Manager





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Installation Manager Overview

Why Installation Manager?

Using Installation Manager to Install WebSphere on z/OS.

Using Installation Manager to Apply Maintenance to WebSphere on z/OS.

Using Installation Manager to Install the WebSphere Customization Tool (WCT) on Windows.



Why Installation Manager?



Why Installation Manager?

Previous versions of WebSphere products have used a variety of different install and update tools. With WebSphere Application Server Version 8, Websphere-branded products are moving to a single cross-platform installer: IBM Installation Manager.

Moving to a single installer will:

Simplify the overall installation and maintenance process for WebSphere products;

Allow better coordination between base products, stack products, and feature packs;

Provide direct electronic delivery of products and service in a consistent fashion across platforms.

Installation Manager documentation:

<http://publib.boulder.ibm.com/infocenter/install/v1r5/index.jsp>

But what about SMP/E?

SMP/E is a venerable tool which continues to evolve. But for products such as WebSphere Application Server which run on a wide range of platforms, SMP/E installation provides fewer advantages. This is especially true if the products install entirely into Un*x file systems rather than making use of MVS native data sets.

Why should you care? Because the family of WebSphere branded products (on all platforms) will be using this installer in a consistent fashion.



Using Installation Manager to Install WebSphere on z/OS.



Multi-part Process.

Use SMPE to install the Installation Manager Install Kit.

Use SMPE to install the WebSphere on z/OS repository.

Use the Installation Manager Install Kit to create the Installation Manager.

Create the filesystem components for WebSphere on z/OS V8 and mount them at /Service.

Use Installation Manager to populate the filesystem components.

Talk about maintenance.

The first two steps are SMPE steps and everyone that needs to be should already be familiar with that process. At any rate, SMPE education is WAY beyond our scope here.

The Installation Manager Install Kit is used to create a working copy of the Installation Manager.

Regular Unix tools are used to create the filesystem components needed to get a working copy of WebSphere on z/OS. We'll discuss the creation of these at the /Service mountpoint as if we were working on a "real" system.

The Installation Manager we created is then used to "load" the WebSphere on z/OS filesystem from the repository (and/or) the remote IBM based repository.

After it is loaded, we can then maintain it, also using Installation Manager.



Creating an Installation Manager

A word about “mode”.

- Admin mode.
 - Uid=0
 - One per system.
- User mode.
 - Only the creating user.
 - One per userid.
- **Group mode.**
 - **Any userid connected to the group.**
 - **As many as you want per system.**

Security setup.

- One User and one Group.
- Access to the following:
 - FACILITY:
 - BPX.FILEATTR.APF READ
 - BPX.FILEATTR.PROGCTL READ
 - BPX.FILEATTR.SHARELIB READ
 - UNIXPRIV:
 - SUPERUSER.FILESYS.CHOWN READ
 - SUPERUSER.FILESYS.CHANGEPERMS READ

Installation Manager mode selection.

The Installation Manager may be created in any of three possible modes: admin, user, or group.

Admin mode: You must be in uid=0 to run in admin mode. A file in /etc/.ibm/registry points to the Installation Manager binaries, so there can only be one admin mode Installation Manager per system. Any user ID with uid=0 can invoke this Installation Manager.

User mode: The userid used when creating the Installation Manager is the only userid that may ever use it. A file in the \$HOME/.ibm/registry points to the binaries, so there can only be one user mode Installation Manager per user.

Group mode: A group mode Installation Manager may be invoked by any userid connected to the USS group that owns the Installation Manager files. There can be any number of group mode Installation Managers and there can be any number of userids connected to the group.

Since many (most) installations restrict the assignment of uid=0 to actual z/OS users, admin mode is probably not the mode of choice for most installations.

The restriction to only one user using a user mode Installation Manager makes that mode undesirable for most z/OS installations.

That leaves us with group mode as the probable choice.

(notes continue on the next page)

Setup of the Security System.

The setup of the security system is simple. It involves setting up one userid connected to one new group. The userid, or more likely the group, needs to have access to certain profiles in the RACF FACILITY and UNIXPRIV classes with the stated level of access.

The following JCL fragment (which is available in the GIN.SGINJCL dataset member GIN2ADMN) contains a sample set of commands to accomplish the required setup.

```
//RACF      EXEC PGM=IKJEFT01,DYNAMNBR=20,REGION=0M
//SYSTSPRT DD  SYSOUT=*
//SYSTSIN  DD  *
ADDGROUP IMGROUP OMVS(GID(gid))
ADDUSER IMADMIN DFLTGRP(IMGROUP) OMVS(UID(uid) HOME('/u/imadmin') +
PROGRAM('/bin/sh')) NOPASSWORD
PERMIT BPX.FILEATTR.APF          CL(FACILITY) ID(IMADMIN) ACCESS(READ)
PERMIT BPX.FILEATTR.PROGCTL      CL(FACILITY) ID(IMADMIN) ACCESS(READ)
PERMIT BPX.FILEATTR.SHARELIB     CL(FACILITY) ID(IMADMIN) ACCESS(READ)
PERMIT SUPERUSER.FILESYS.CHOWN   CL(UNIXPRIV) +
ID(IMADMIN) ACCESS(READ)
PERMIT SUPERUSER.FILESYS.CHANGEPERMS CL(UNIXPRIV) +
ID(IMADMIN) ACCESS(READ)
SETR RACLIST(FACILITY) REFRESH
SETR RACLIST(UNIXPRIV) REFRESH
/*
```



Creating an Installation Manager

Creating the filesystem.

Mountpoint: /Service/InstallationManager

Filesystem: WAS800.GRPMODE.GINHFS.ZFS

JOB: GIN.SGINJCL(GIN2CFS)

```
//SYSTSIN DD *
BPXBATCH SH +
  /usr/lpp/InstallationManager/V1R5/tools/zCreateFileSystem.sh      +
    -name WAS800.GRPMODE.GINHFS.ZFS                               +
    -type ZFS                                                       +
    -volume NGIV8A                                                  +
    -cylinders 2500 250                                             +
    -mountpoint /Service/InstallationManager                       +
    -owner IMADMIN                                                  +
    -group IMGROUP
```

We need to create a filesystem and mount it before we can create the Installation Manager. The default mountpoint is at /InstallationManager but we will be doing all of our work in the /Service directory so our mountpoint will be /Service/InstallationManager. The JCL fragment (which is available in the GIN.SGINJCL dataset member GIN2CFS) will create the required filesystem, mountpoint, set the permissions and ownership properly, and mount the filesystem at the mountpoint.



Creating an Installation Manager

Creating the Installation Manager.

Command: `groupinstc`

`installationDirectory: /Service/InstallationManager/bin`

`dataLocation: /Service/InstallationManager/appdata`

`JOB: GIN.SGINJCL(GIN2INST)`

```
//SYSTSIN DD *
BPXBATCH SH +
  /usr/lpp/InstallationManager/V1R5/groupinstc          +
  -installationDirectory /Service/InstallationManager/bin +
  -dataLocation          /Service/InstallationManager/appdata +
  -acceptLicense
/*
```

Creating the Installation Manager.

We're now ready to create the Installation Manager that we will use for all further tasks involved with creating and maintaining the WebSphere on z/OS V8 binaries. We had previously decided to use group mode, so the sample jcl provided in the `GIN.SGINJCL` dataset member `GIN2INST` may require some editing.

The userid created previously should be used to run this job, so the job card will need to be modified appropriately.

The command that will be used determines the mode:

`installc` Admin mode

`userinstc` User mode

`groupinstc` Group mode

So the command will have to be changed from `installc` to `groupinstc`.

The paths specified for the `-installationDirectory` and `-dataLocation` arguments will need to be changed to reflect the pathname we created in the previous step.



Installing WebSphere on z/OS V8 using the Installation Manager

Creating the filesystem.

Mountpoint: /Service/usr/lpp/zWebSphere/V8R0FP02

Filesystem: WAS800.V8R0FP02.SBBOHFS

JOB: BBO.SBBOJCL(BBO1CFS)

```
//SYSTSIN DD *
BPXBATCH SH +
  /Service/InstallationManager/bin/eclipse/tools/+
  zCreateFileSystem.sh                               +
  -name WAS800.V8R0FP02.SBBOHFS                    +
  -type ZFS                                          +
  -volume WASV8A                                    +
  -cylinders 3360 336                               +
  -mountpoint /Service/usr/lpp/zWebSphere/V8R0FP02 +
  -owner IMADMIN                                    +
  -group IMGROUP                                    +
/*
```

We now need to create a filesystem to contain the WebSphere on z/OS V8 binaries at a mountpoint contained within the /Service mountpoint. This process is nearly identical to that which we used to create the filesystem for Installation Manager. The following JCL fragment (which is available in the BBO.SBBOJCL dataset member BBO1CFS) will create the required filesystem, mountpoint, set the permissions and ownership properly, and mount the filesystem at the mountpoint.

Note the name of the filesystem, WAS800.V8R0FP02.SBBOHFS. The middle qualifier is used to tie the hfs to the level of WebSphere installed, in this case the base level of the product (keep in mind that all of this is being done in the /Service directory). Also, the last directory in the mountpoint is a match for the middle qualifier of the filesystem dataset name. These names will become more important when we start to apply maintenance to the product.



Installing WebSphere on z/OS V8 using the Installation Manager

A side discussion on repositories.

Local Repository: `/usr/lpp/InstallationManagerRepository/HBBO800`

IBM Hosted Repository:

<http://www.ibm.com/software/repositorymanager/com.ibm.websphere.zOS.v80>

Need for a userid/password to access.

Use the `saveCredential` Installation Manager command to create a “keyring”.

Note that you may need to add `repository.config` to the end of the url and change `http` to `https` for the `saveCredential` command.

```
:/Service/InstallationManager/bin/eclipse/tools.
/imutilsc saveCredential -keyring /u/mjloos/imkeyring -url
https://www.ibm.com/software/repositorymanager/com.ibm.websphere.z
OS.v80/repository.config -userName mikeloos@us.ibm.com
-userPassword ***** -proxyHost your.proxy.hostname -proxyPort
yourproxyportnumber -proxyUsername yourproxyuserid -proxyUserPassword
*****
Successfully saved the credential to the keyring.
:/Service/InstallationManager/bin/eclipse/tools
```

Setup work to Use the IBM Hosted Repository.

Accessing the IBM repository requires that you have an ID and password. This is the same IBM ID that you would use to download things from developerworks, alphaworks, and access other parts of the IBM network. They are freely available and easy to obtain.

You also need the correct URL. The URL can be found in the WebSphere V8 InfoCenter. It is:

<http://www.ibm.com/software/repositorymanager/com.ibm.websphere.zOS.v80>

Since you probably don't want to specify your IBM ID and password in batch jobs, you'll need to set up a “keyring” for Installation Manager use. This is very easy to do. From a telnet, ssh, or OMVS shell:

```
:/Service/InstallationManager/bin/eclipse/tools.
/imutilsc saveCredential -keyring /u/mjloos/imkeyring -url
https://www.ibm.com/software/repositorymanager/com.ibm.websphere.zOS.v80/repository.config -userName
mikeloos@us.ibm.com -userPassword *****
```

Successfully saved the credential to the keyring.

```
:/Service/InstallationManager/bin/eclipse/tools
```

The `imutilsc saveCredential` command can be used to create a keyring for use with Installation Manager. The parameters necessary are:

- a path to a keyring file,
- a url for which it will be used,
- a username
- and a password.

You'll note that it may be necessary to add `/repository.config` to the end of the url and to specify `https` in place of `http` on the `saveCredential` command.

If the password and/or the userid gets changed, simply delete the keyring file and recreate it.



Use of Proxy Servers

If your installation requires that you go through a proxy server, you'll have to add the following entries after the `-preferences` keywork on the `imcl` command.

```
com.ibm.cic.common.core.preferences.http.proxyEnabled=True,  
com.ibm.cic.common.core.preferences.http.proxyHost=<proxyName>,  
com.ibm.cic.common.core.preferences.http.proxyPort=<proxyPort>
```

As well as having the following on the `imutilsc saveCredential` command to get the proper entries stored on your keyring.

```
-userName youruserid  
-userPassword *****  
-proxyHost your.proxy.hostname  
-proxyPort yourproxyportnumber  
-proxyUsername yourproxyuserid  
-proxyUserPassword *****
```



Installing WebSphere on z/OS V8 using the Installation Manager

Let's see what's available.

IBM Hosted Repository:

```
http://www.ibm.com/software/repositorymanager/com.ibm.websphere.zOS.v80
```

Keyring: /u/mjloos/imkeyring

Use the listAvailablePackages Installation Manager command to see which fix packs are available.

```
:/Service/InstallationManager/bin/eclipse/tools
-> ./imcl listAvailablePackages -long -repositories
/usr/lpp/InstallationManagerRepository/HBBO800,+
http://www.ibm.com/software/repositorymanager/com.ibm.websphere.zOS.v80 -keyring
/u/mjloos/imkeyring
```

Partial output:

Fix Pack 1

```
http://www.ibm.com/software/repositorymanager/com.ibm.websphere.zOS.v80 :
com.ibm.websphere.zOS.v80_8.0.1.20110829_1901 : IBM WebSphere Application Server for
z/OS : 8.0.0.1
```

Fix Pack 2

```
http://www.ibm.com/software/repositorymanager/com.ibm.websphere.zOS.v80 :
com.ibm.websphere.zOS.v80_8.0.2.20111202_1716 : IBM WebSphere Application Server for
z/OS : 8.0.0.2
```

Getting a list of available fix packages.

The Installation Manager command “listAvailablePackages” can be used to determine which fix packs are available in a repository (or set of repositories). The -long option give a more readable name for each package.

The partial output from the command at the time it was issued indicates that the most current fix pack available was fix pack 2 (8.0.0.2).



Installing WebSphere on z/OS V8 using the Installation Manager

version 8.5 Update.

```
//SYSTSIN DD *
BPXBATCH SH +
  /Service/InstallationManager/bin/eclipse/tools/imcl           +
  listAvailablePackages -long -features                       +
  -repositories                                               +
  /shared/InstallationManagerRepository/HBBO850,+
  http://www.ibm.com/software/repositorymanager+
  /com.ibm.websphere.zOS.v85                               +
  -keyring /u/mjloos/imkeyring
/*
```

Output:

```
/shared/InstallationManagerRepository/HBBO850 : com.ibm.websphere.IHS.zOS.v85_8.5.0.20120501_1121 :
IBM HTTP Server for WebSphere Application Server for z/OS : 8.5.0.0 : core.feature

/shared/InstallationManagerRepository/HBBO850 : com.ibm.websphere.NDDMZ.zOS.v85_8.5.0.20120501_1118
: DMZ Secure Proxy Server for IBM WebSphere Application Server for z/OS : 8.5.0.0 :
core.feature,thinclient

/shared/InstallationManagerRepository/HBBO850 : com.ibm.websphere.PLG.zOS.v85_8.5.0.20120501_1122 :
Web Server Plug-ins for IBM WebSphere Application Server for z/OS : 8.5.0.0 : core.feature

/shared/InstallationManagerRepository/HBBO850 : com.ibm.websphere.zOS.v85_8.5.0.20120501_1118 : IBM
WebSphere Application Server for z/OS : 8.5.0.0 :
core.feature,ejbdeploy,thinclient,embeddablecontainer,samples,liberty
```

Getting a list of available fix packages.

The Installation Manager command “listAvailablePackages” can be used to determine which fix packs are available in a repository (or set of repositories). The -long option give a more readable name for each package.

The partial output from the command at the time it was issued indicates that the most current fix pack available was fix pack 2 (8.0.0.2).



Installing WebSphere on z/OS V8 using the Installation Manager

Finally, let's install.

Local Repository: /usr/lpp/InstallationManagerRepository/HBBO800

IBM Hosted Repository:

http://www.ibm.com/software/repositorymanager/com.ibm.websphere.zOS.v80

Keyring: /u/mjloos/imkeyring

Installation Directory: /Service/usr/lpp/zWebSphere/V8R0FP02

JOB: BBO.SBBOJCL(BBO1INST)

Use the install command to cause Installation Manager to populate the target filesystem.

```
/SYSTSIN DD *
BPXBATCH SH +
  /Service/InstallationManager/bin/eclipse/tools/imcl           +
  install com.ibm.websphere.zOS.v80_8.0.2.20111202_1716      +
  -installationDirectory /Service/usr/lpp/zWebSphere/V8R0FP02 +
  -sharedResourcesDirectory                                  +
  /Service/InstallationManager/sharedResources                +
  -repositories /usr/lpp/InstallationManagerRepository/HBBO800,+
  http://www.ibm.com/software/repositorymanager/com.ibm.websphere.zOS.v80 +
  -preferences com.ibm.cic.common.core.preferences.preserveDownlo+
  adedArtifacts=false -keyring /u/mjloos/imkeyring           +
  -acceptLicense
/*
```

Installation of the Code at the fix pack 2 level.

The package name that we are installing: `com.ibm.websphere.zOS.v80_8.0.2.20111202_1716` is the “fully qualified” package name, including the product level. The package name without the product level would have been: `com.ibm.websphere.zOS.v80` which would have caused the product to be installed at the most current level available in the repository (in this case the same level, fix pack 2). Since we wanted to demonstrate selection of the fix pack 2 level of the product, we specified the fully qualified package name.

The execution of this job may take quite a while. Since most of the work will be done by USS processes that are “spawned” off of the main task, the main task may be in a wait state for a time which could exceed your installation’s SMF JWT value. This suggests that it may be a good idea to include the parameter, `TIME=1440` or `TIME=NOLIMIT` on the job card.

Since the Installation Manager we are using is a group mode Installation Manager, this job must be run either by a userid which is connected to the Installation Manager group (IMGROUP) or by the Installation Manager userid (IMADMIN).

You’ll note that we specified both the SMPE installed local repository and the IBMhosted repository. The local repository is specified to “prove” that we are licensed for the product. The IBM hosted repository actually holds all of the code we need for the install.



Installing WebSphere on z/OS V8.5 using the Installation Manager (including Liberty feature)

Finally, let's install.

Local Repository: /usr/lpp/InstallationManagerRepository/HBBO850

IBM Hosted Repository:

<http://www.ibm.com/software/repositorymanager/com.ibm.websphere.zOS.v85>

Keyring: /u/mjloos/imkeyring

Installation Directory: /Service/usr/lpp/zWebSphere/V8R5BASE

JOB:

```
//SYSTSIN DD *
BPXBATCH SH +
/Service/InstallationManager/bin/eclipse/tools/imcl +
install com.ibm.websphere.zOS.v85,core.feature,liberty,+ +
ejbdeploy,thinclient,+ +
embeddablecontainer,samples +
-installationDirectory /Service/usr/lpp/zWebSphere/V8R5BASE +
-sharedResourcesDirectory +
/Service/InstallationManager/sharedResources +
-repositories +
/shared/InstallationManagerRepository/HBBO850,+ +
http://www.ibm.com/software/repositorymanager+ +
/com.ibm.websphere.zOS.v85 +
-preferences com.ibm.cic.common.core.preferences.preserveDownlo+ +
adedArtifacts=false +
-acceptLicense -keyring /u/mjloos/imkeyring
/*
```

Installation of the Code at the fix pack 2 level.

The package name that we are installing: `com.ibm.websphere.zOS.v80_8.0.2.20111202_1716` is the “fully qualified” package name, including the product level. The package name without the product level would have been: `com.ibm.websphere.zOS.v80` which would have caused the product to be installed at the most current level available in the repository (in this case the same level, fix pack 2). Since we wanted to demonstrate selection of the fix pack 2 level of the product, we specified the fully qualified package name.

The execution of this job may take quite a while. Since most of the work will be done by USS processes that are “spawned” off of the main task, the main task may be in a wait state for a time which could exceed your installation’s SMF JWT value. This suggests that it may be a good idea to include the parameter, `TIME=1440` or `TIME=NOLIMIT` on the job card.

Since the Installation Manager we are using is a group mode Installation Manager, this job must be run either by a userid which is connected to the Installation Manager group (IMGROUP) or by the Installation Manager userid (IMADMIN).

You’ll note that we specified both the SMPE installed local repository and the IBMhosted repository. The local repository is specified to “prove” that we are licensed for the product. The IBM hosted repository actually holds all of the code we need for the install.



Installing WebSphere on z/OS V8.5 Adding Java 7.

Finally, let's install.

Local Repository: /usr/lpp/InstallationManagerRepository/HBJA700

IBM Hosted Repository:

http://www.ibm.com/software/repositorymanager/com.ibm.websphere.IBMJAVA.v70

Keyring: /u/mjloos/imkeyring

Installation Directory: /Service/usr/lpp/zWebSphere/V8R5BASE

JOB:

```
//SYSTSIN DD *
BPXBATCH SH +
 /Service/InstallationManager/bin/eclipse/tools/imcl +
  install com.ibm.websphere.IBMJAVA.v70_7.0.1000.20120424_1539 +
  -installationDirectory /Service/usr/lpp/zWebSphere/V8R5BASE +
  -sharedResourcesDirectory +
  /Service/InstallationManager/sharedResources +
  -repositories +
  /shared/InstallationManagerRepository/HBJA700,+
  http://www.ibm.com/software/repositorymanager+
  /com.ibm.websphere.IBMJAVA.v70 +
  -preferences com.ibm.cic.common.core.preferences.preserveDownlo+
  adedArtifacts=false +
  -acceptLicense -keyring /u/mjloos/imkeyring
/*
```

Installation of the Code at the fix pack 2 level.

The package name that we are installing: `com.ibm.websphere.zOS.v80_8.0.2.20111202_1716` is the “fully qualified” package name, including the product level. The package name without the product level would have been: `com.ibm.websphere.zOS.v80` which would have caused the product to be installed at the most current level available in the repository (in this case the same level, fix pack 2). Since we wanted to demonstrate selection of the fix pack 2 level of the product, we specified the fully qualified package name.

The execution of this job may take quite a while. Since most of the work will be done by USS processes that are “spawned” off of the main task, the main task may be in a wait state for a time which could exceed your installation’s SMF JWT value. This suggests that it may be a good idea to include the parameter, `TIME=1440` or `TIME=NOLIMIT` on the job card.

Since the Installation Manager we are using is a group mode Installation Manager, this job must be run either by a userid which is connected to the Installation Manager group (IMGROUP) or by the Installation Manager userid (IMADMIN).

You’ll note that we specified both the SMPE installed local repository and the IBMhosted repository. The local repository is specified to “prove” that we are licensed for the product. The IBM hosted repository actually holds all of the code we need for the install.



Installing WebSphere on z/OS V8 using the Installation Manager

Next step...put it into use.

Currently mounted at /Service.

Unmount and remount at the “standard” location.

```
/usr/lpp/zWebSphere/V8R0FP02
```

Or, simply copy the filesystem to a newname, and mount it in the “standard” location.

If this is just the beginning of your use with V8, it would be appropriate to begin configuration processes.

If this is an “upgrade” to a new maintenance level, then it is time to start changing the intermediate symlinks as discussed earlier.



Using Installation Manager to Apply Maintenance to WebSphere on z/OS.



A little bit about maintenance.

- Maintenance.
 - Fix packs is installed as we have already shown
 - iFixes (similar to APARFIX)
 - Only in the /Service area.
- listAvailableFixes Installation Manager Command.

```
:/Service/InstallationManager/bin/eclipse/tools
-> ./imcl listAvailableFixes com.ibm.websphere.zOS.v80_8.0.2.20111202_1716
-long -repositories /usr/lpp/InstallationManagerRepository/HBBO800,+
http://www.ibm.com/software/repositorymanager/con.ibm.websphere.zOS.v80
-keyring /u/mjloos/imkeyring -preferences +
com.ibm.cic.common.core.preferences.http.proxyEnabled=True,+
com.ibm.cic.common.core.preferences.http.proxyHost=<proxyName>,+
com.ibm.cic.common.core.preferences.http.proxyPort=<proxyPort>

http://www.ibm.com/software/repositorymanager/com.ibm.websphere.zOS.v80 :
8.0.0.2-WS-WAS-IFPM53930_8.0.2.20120112_0922 : recommended=true
```

Maintenance in the form of Fix packs is installed as we have already showed. Basically it is a full replacement of the filesystem, and the steps above can simple be repeated.

Maintenance in the form of an iFix can either be applied directly to any of the existing copies of the filesystem mounted in the /Service directory.

Installation Manager will only apply maintenance to copies about which it already knows. So if it was built in /Service, it must be maintained in /Service.

You can get a list of iFixes available for a particular package version (fix pack level) with the Installation Manager Command: listAvailableFixes.

The output from the command shows one available iFix:

```
8.0.0.2-WS-WAS-IFPM53930_8.0.2.20120112_0922
```



Installing the iFix.

- A Sample Job.

```
//SYSTSIN DD *
BPXBATCH SH +
  /Service/InstallationManager/bin/eclipse/tools/imcl           +
  install 8.0.0.2-WAS-WAS-IFPM53930_8.0.2.20120112_0922      +
  -installDirectory /Service/usr/lpp/zWebSphere/V8R0FP02      +
  -repositories /usr/lpp/InstalallationManagerRepository/HBBO800,+
  http://www.ibm.com/software/repositorymanager/+
  com.ibm.websphere.zOS.v80                                   +
  -preferences ce.zOS.v80c.common.core.preferences.preserveDownlo+
  adedArtifacts=false,+
  com.ibm.cic.common.core.preferences.http.proxyEnabled=True,+
  com.ibm.cic.common.core.preferences.http.proxyHost=<proxyName>,+
  com.ibm.cic.common.core.preferences.http.proxyPort=<proxyPort> +
  -keyring /u/mjloos/imkeyring                                 +
  -acceptLicense
/*
```

This sample job will install the iFix: **8.0.0.2-WAS-WAS-IFPM53930_8.0.2.20120112_0922** onto the filesystem mounted at: `/Service/usr/lpp/zWebSphere/V8R0FP02` from the IBM hosted repository.

The filesystem would then be ready for remounting or copying and mounting into the testing area.



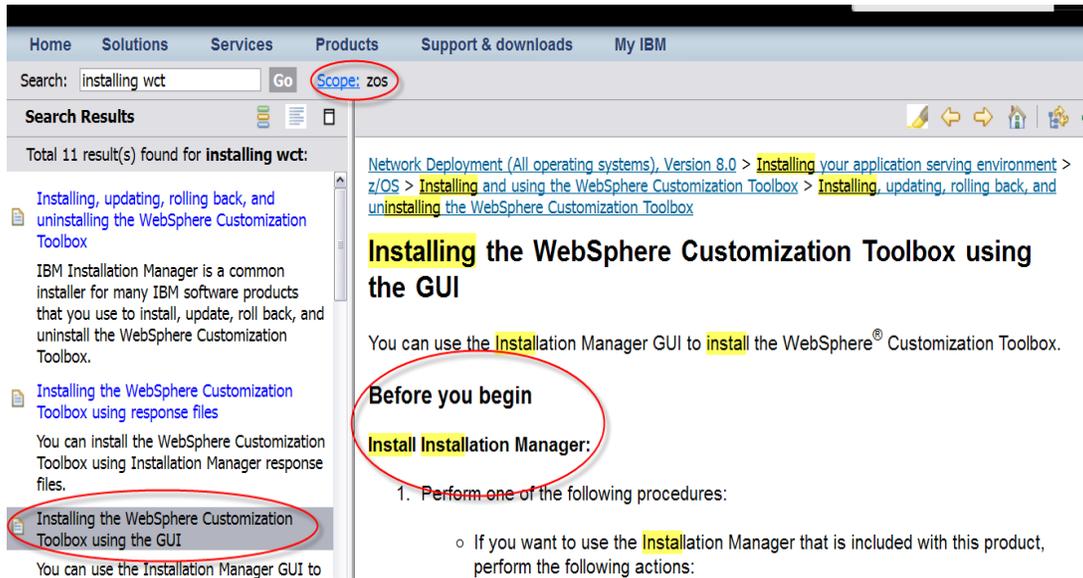
Using Installation Manager to Install the WebSphere Customization Tool (WCT) on Windows.

Installing Installation Manager for Windows

First you have to find it...

Start with the WebSphere V8 Infocenter.

http://publib.boulder.ibm.com/infocenter/wasinfo/v8r0/index.jsp?topic=/com.ibm.websphere.zseries.doc/info/zseries/ae/welcome_zseries.html



Home Solutions Services Products Support & downloads My IBM

Search: installing wct Go Scope: zos

Search Results

Total 11 result(s) found for **installing wct**:

- Installing, updating, rolling back, and uninstalling the WebSphere Customization Toolbox
- Installing the WebSphere Customization Toolbox using response files
- Installing the WebSphere Customization Toolbox using the GUI**

Network Deployment (All operating systems), Version 8.0 > Installing your application serving environment > z/OS > Installing and using the WebSphere Customization Toolbox > Installing, updating, rolling back, and uninstalling the WebSphere Customization Toolbox

Installing the WebSphere Customization Toolbox using the GUI

You can use the Installation Manager GUI to install the WebSphere® Customization Toolbox.

Before you begin

Install Installation Manager:

- Perform one of the following procedures:
 - If you want to use the Installation Manager that is included with this product, perform the following actions:

To Install the WebSphere Customization Toolbox on your Windows machine, you first have to install a copy of Installation Manager.

A good starting point for all of this work is the WebSphere V8 Infocenter. The url is (all on one line)

[http://publib.boulder.ibm.com/infocenter/wasinfo/v8r0/index.jsp?](http://publib.boulder.ibm.com/infocenter/wasinfo/v8r0/index.jsp?topic=/com.ibm.websphere.zseries.doc/info/zseries/ae/welcome_zseries.html)

[topic=/com.ibm.websphere.zseries.doc/info/zseries/ae/welcome_zseries.html](http://publib.boulder.ibm.com/infocenter/wasinfo/v8r0/index.jsp?topic=/com.ibm.websphere.zseries.doc/info/zseries/ae/welcome_zseries.html)

(If using PDF, the link is [here](#).)

Once in the infocenter you should set your “scope” to the z/OS topics only. Then you can search on the string: “installing wct” or something fairly close to that. Next click on the link in the navigation pane for “Installing the WebSphere Customization Toolbox using the GUI”.

Now you're ready to start.



Installing Installation Manager for Windows

Browsing down you'll find instructions.

- **Access the live repositories, and use web-based installation**

If you have a Passport Advantage ID and password, you can install the product from the web-based repositories.

- i. Install Installation Manager on your system.

You can install Installation Manager using the product media, using a file obtained from the Passport Advantage site, or using a file containing the most current version of Installation Manager from the [IBM Installation Manager download website](#).

- ii. Use Installation Manager to install the product from the web-based repository located at

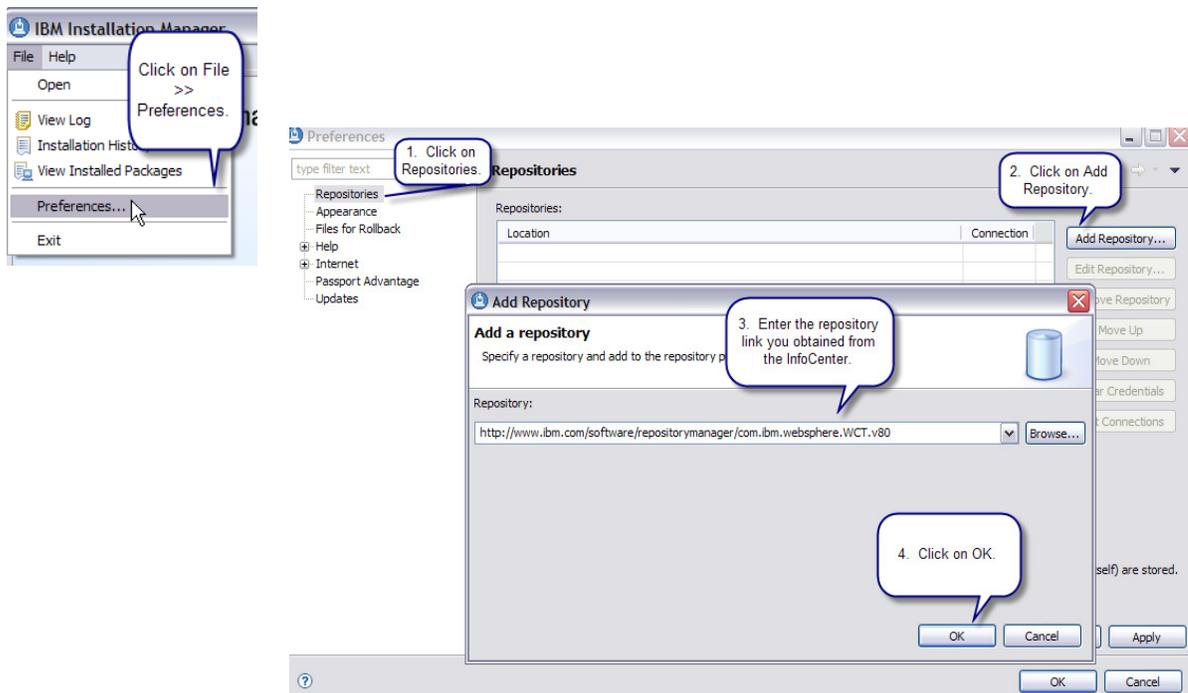
```
http://www.ibm.com/software  
/repositorymanager  
/com.ibm.websphere.WCT.v80
```

Using the link in step one, and your IBM ID and password, you can download and (following the standard instructions) install the IBM Installation manager on your desktop.

Next use the Installation Manager GUI and the link in the gray box to install the WCT.

Installing Installation Manager for Windows

After starting and opening the Installation Manager on your Desktop...



Once the Installation Manager GUI is started, click on File >> Preferences. On the next panel, select Repositories, and click on Add Repository. On the prompt panel enter the URL from the InfoCenter. Click OK.

Installing Installation Manager for Windows

Respond to the password prompt with your IBM ID and password.



Password Required

Credentials are required to connect to the IBM download site. Enter IBM ID and password.

User name:

Password:

Save password

 Saved passwords are stored on your computer in a file which is difficult, but not impossible, for an intruder to read.

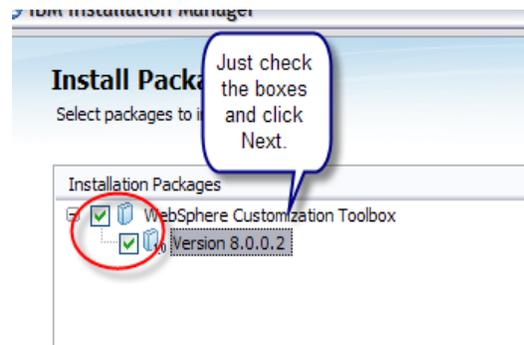
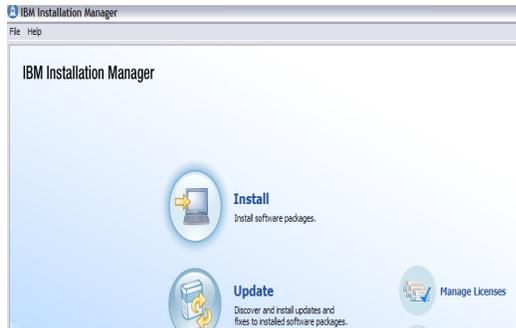
[Forgot your IBM ID?](#) [Forgot your password?](#) [IBM ID help and FAQ](#)

OK Cancel

The next prompt will be for a user name and password. This is your IBM ID and password which will be used to access the repository.

Installing Installation Manager for Windows

Now you're ready to install..



Once you are back to the main GUI screen, you can click on Install. The Installation Manager will search the repositories for available packages and then prompt you for selection. On the selection screen check the boxes to indicate what you want installed. Click Next, follow the remaining prompts, and the WCT will be installed.