./manageprofiles.sh \ -create \ -profileName dmgr \ -profilePath /usr/WebSphere/AppServer/profiles/dmgr \ -templatePath /usr/WebSphere/AppServer/profileTemplates/management \ -serverType DEPLOYMENT\_MANAGER \ -cellName TEST \ -hostName goxsd750.fpl.com \ -nodeName goxsd750Manager \ -startingPort 10000

./manageprofiles.sh \

-create -profileName Custom01 \

-profilePath /usr/WebSphere/AppServer/profiles/Custom01 \

-templatePath /usr/WebSphere/AppServer/profileTemplates/managed \

-nodeName goxsd750Node01

A WAS cell consists of 3 types of machine nodes:

* Deployment manager (dmgr)
* Managed node (customNode)
* IHS node (IBM Http Server with WebSphere Plugin)

In other words, a machine node could be in dmgr, customNode, or IHS role, or a mix of all 3 roles.

This document describes how existing WAS cells and Liberty servers are installed in corresponding environments.

Topology

Sandbox (1 WAS cell)

Dev, Test, QA, QA DR (2 WAS cells)

Servers > Server Types > **Web servers**

System administration > Cell > **Local Topology**

System administration > **Deployment manager**

System administration > **Nodes**

System administration > **Node agents**

System administration > Cell > **Local Topology**

Prod (2 WAS cells)

Prod DR (2 WAS cells)

Liberty

Common Software Requirements

Note: Please provide the following information.

* OS name and version (e.g., Red Hat Enterprise Linux 8.6): AIX
* OS user for installing IBM Installation Manager (root or a specific OS user): su -
* remote login user: **wsadmin**
* OS user for installing WAS software (root or a specific OS user): su -
* remote loginuser: **wsadmin**
* Any other?

WAS Version

The following table illustrate WAS environments with their corresponding WAS version and number of WAS nodes. Usually, the number of deployment manager (DM) node represents the number of WAS cells. Thus, the number of WAS cells to be built is 7.

Note: Please specify target WAS version for each environment.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  |  | **Version** | **Node** |  |  |  |
|  |  |  | **DM** | **Managed** | **IHS** | **Liberty** |
| Environment | **Sandbox** | NONE | 1 | 1 | 1 |  |
|  | **Dev, Test, QA, QA DR** | 8.5.5.11 | 2 | 8 | 24 |  |
|  | **Prod** | 8.5.5.11 | 2 | 4 | 4 |  |
|  | **Prod DR** | 8.5.5.11 | 2 | 3 | 6 |  |
|  | **Liberty** | 16.xxx |  |  |  | 6 |
|  |  |  |  |  |  |  |
|  | **Total** |  | **7** | **16** | **35** | **6** |

Refer to [Recommended updates for WebSphere Appl HYPERLINK "https://www.ibm.com/support/pages/recommended-updates-websphere-application-server" HYPERLINK "https://www.ibm.com/support/pages/recommended-updates-websphere-application-server" HYPERLINK "https://www.ibm.com/support/pages/recommended-updates-websphere-application-server"i HYPERLINK "https://www.ibm.com/support/pages/recommended-updates-websphere-application-server" HYPERLINK "https://www.ibm.com/support/pages/recommended-updates-websphere-application-server" HYPERLINK "https://www.ibm.com/support/pages/recommended-updates-websphere-application-server"cation Server](https://www.ibm.com/support/pages/recommended-updates-websphere-application-server) for WAS latest version information, e.g., WAS-ND 9.0.5.16, WAS-ND 8.5.5.24, and WebSphere Liberty - Continuous Delivery 23.0.0.7.

WAS (Dmgr, Managed) Node Software Requirements

Note: Please provide the following information. If empty, default will be used.

* INSTALL\_ROOT (/opt/IBM/WebSphere/AppServer): /usr/WebSphere/AppServer (want to keep)
* Profile naming pattern
* Dmgr profile (Dmgr0N, N starts from 1, e.g., Dmgr01): Dmgr01 or dmgr (prefer dmgr)
* Managed node profile (AppSrv0N, N starts from 1, e.g., AppSrv01): Custom01 - Custom0N
* Coexistence of Dmgr and Managed node profile (Yes or No): Yes
* Profile path (/opt/IBM/WebSphere/AppServer/profiles/$PROFILE\_NAME): /usr/WebSphere/AppServer/profiles/$PROFILE\_NAME
* cellName (HostnameCell0N, N starts from 1, e.g., HostnameCell01): system genereated
* nodeName (HostnameNode01, N starts from 1, e.g., HostnameNode01): system genereated
* Number of managed nodes on managed node machine (e.g., 1): 1
* Default and recommendation: 1.

Note: A WAS node can have multiple WAS installations and each WAS installation can have multiple profiles.

IHS node

Note: Please provide the following information. If empty, default will be used.

* IBM Http Server
* INSTALL\_ROOT (/opt/IBM/HTTPServer): /usr/WebSphere/IHS
* JDK (/opt/IBM/HTTPServer/java): /usr/WebSphere/IHS/java
* Web server naming pattern (webserverN, N starts from 1, e.g., webserver1): try to co-relate app server naming and web server naming to facilitate map modules to target operation. On the other hand, totally customized.
* WebSphere Plugin
* INSTALL\_ROOT (/opt/IBM/HTTPServer): /usr/WebSphere/Plugins (preferred)
* Number of web server definitions on IHS node machine (e.g., 1): N
* Default and recommendation: 1.
* Web server managment type: unmanaged
* Remote Web server management
* user: wasadmin (default is admin)
* port: 8000 (default is 8008)
* Http/Https port (e.g., 80/443): > 8000
* Note: non-administrator user install can not use port < 1024.

Note: A IHS node can have multiple web server configurations.

Liberty

* INSTALL\_ROOT (/opt/IBM/WebSphere/Liberty):