



Power Development Program

Versioned WPAR: PDP User Guide

24 December, 2013

Introduction

The following document provides direction on how to create and use Versioned WPAR feature with a PDP system.

Before you begin working with Versioned WPAR on PDP please review the document AIX 5.2 Workload Partitions for AIX 7 to fully understand this technology

http://publib.boulder.ibm.com/infocenter/aix/v7r1/topic/com.ibm.aix.wpar/wpar_pdf.pdf

Keep this document handy while working with Versioned WPAR on your PDP system.

What is AIX 7 Versioned WPAR?

Versioned WPARs are AIX 5.2 WPARs that you create on top of AIX 7.1 base operating system. Applications running in an AIX 5.2 WPAR use AIX 5.2 commands and libraries. If you have applications that have not been certified on newer versions of AIX, the AIX

5.2 commands and libraries provides a way to run them in an AIX 5.2 environment on top of AIX 7.1. Such a setup allows running those applications on currently available hardware that might not support the use of AIX 5.2 as the base operating system. A versioned WPAR is always a system WPAR, and is not shared. Versioned WPARs own writable /opt and /usr file systems. Following are the prerequisites for Versioned WPARs

- Versioned WPARs only support POWER7™ hardware.
- Versioned WPARs can be installed only on an AIX 7.1 operating system.
- The latest available, and supported version of AIX 5.2 is technology level (TL) 10, and service pack (SP) 8. Therefore, any backup image that is used to create an AIX 5.2 WPAR must be from an AIX 5.2 system running the latest version.

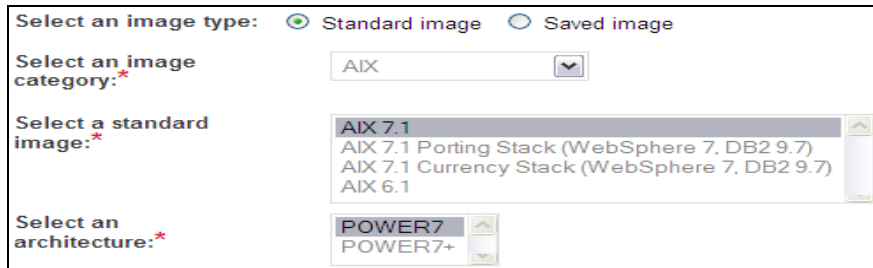
Major steps:

- 1 Create an AIX 7 reservation on POWER7
- 2 Add a Versioned WPAR from PDP website
- 3 Connect to the Versioned WPAR

Step 1: Create an AIX 7 reservation on POWER7

Go to the PDP site to create a New Reservation – www.ibm.com/partnerworld/pdp
(All below screenshot going to replace with new PDP UI)

Start creating a new reservation; on the resource selection page, select the AIX 7 Operating system and POWER7 architecture as shown in the figure below.



Select an image type: Standard image Saved image

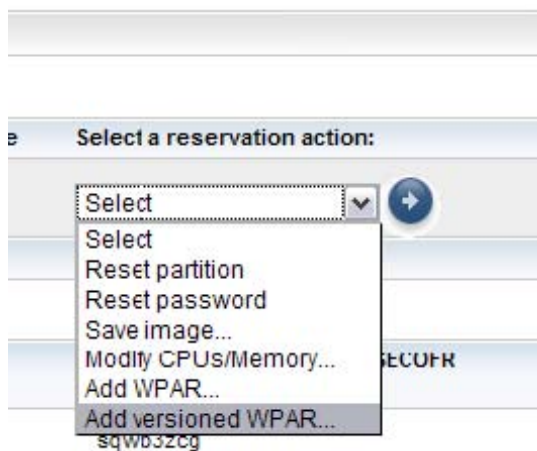
Select an image category:* AIX

Select a standard image:*
AIX 7.1
AIX 7.1 Porting Stack (WebSphere 7, DB2 9.7)
AIX 7.1 Currency Stack (WebSphere 7, DB2 9.7)
AIX 6.1

Select an architecture:*
POWER7
POWER7+

Step 2: Add a Versioned WPAR from PDP Website

Once the reservation state turned *Active* on *Reservations(s) information* table under your project listed on *Reservation management / My reservations* page, select *Add Versioned WPAR* option from the reservation action drop-down menu and click on the arrow button next to it to open the Versioned WPAR creation page.

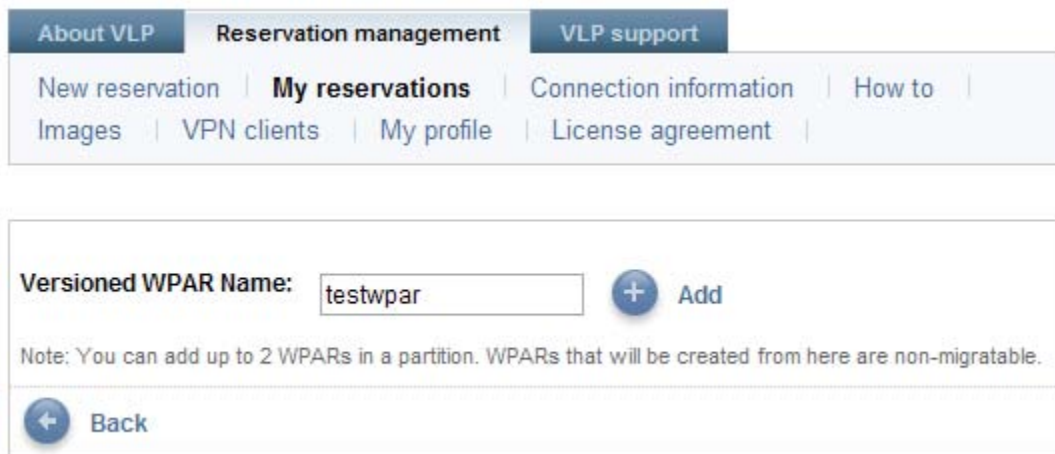


Select a reservation action:

Select

- Select
- Reset partition
- Reset password
- Save image...
- Modify CPUs/Memory...
- Add WPAR...
- Add versioned WPAR...

Enter the Versioned WPAR name and click *Add* button. Then please go back to the previous page by clicking *Back* button to see the latest state of the Versioned WPAR.



About VLP | Reservation management | VLP support


New reservation | **My reservations** | Connection information | How to |
Images | VPN clients | My profile | License agreement |

Versioned WPAR Name: testwpar + Add


Note: You can add up to 2 WPARs in a partition. WPARs that will be created from here are non-migratable.

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Initially the WPAR state would be *TRANSITIONAL* as shown in the figure below. The only action that you can do on the Versioned WPAR at this point of time is *Refreshing WPAR info*.

WPAR name	WPAR version	WPAR state	Select WPAR action
testwpar	AIX52	TRANSITIONAL	Select 


Select *Refresh WPAR info* from the *Select WPAR action* drop-down and click on the arrow button to refresh the Versioned WPAR state.

WPAR state	Select WPAR action
TRANSITIONAL	Refresh WPAR Info 
WPAR host name	ss

After a few minutes, the WPAR state will change to *Active* once the Versioned WPAR was successfully created on the host partition.

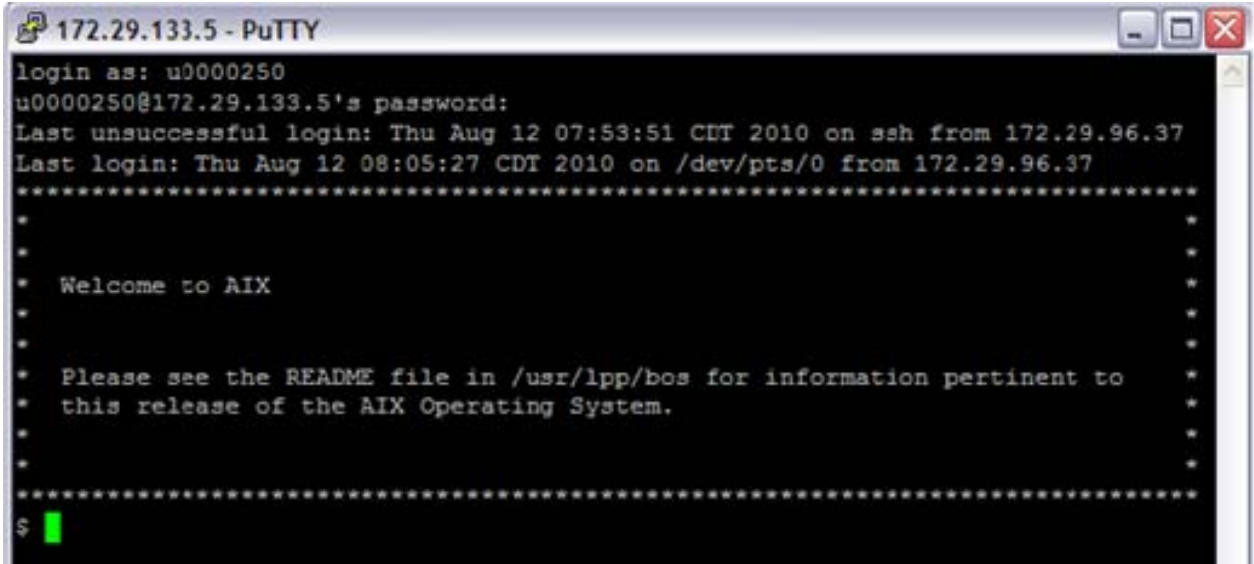
WPAR name	WPAR version	WPAR state	Select WPAR action
testwpar	AIX52	ACTIVE	Select 
WPAR root password	WPAR host name	WPAR IP address	
tzn5uox	testwpar	172.29.133.5	

Once the Versioned WPAR status changed to *Active* you can perform the following actions on it as shown in the figure below.

WPAR name	WPAR version	WPAR state	Select WPAR action
testwpar	AIX52	ACTIVE	Remove WPAR 
WPAR root password	WPAR host name	WPAR IP address	
tzn5uox	testwpar	172.29.133.5	
Last saved image name	Saved image description		

Step 3: Connect to the Versioned WPAR

In order to connect to the Versioned WPAR you created, first you need to connect to the PDP network using CISCO VPN client (Please refer to the user guide -Connecting to Your PDP System -A User Guide v2 -on the PDP website at <https://www-304.ibm.com/partnerworld/wps/mem/systems/PDP/howto>). Then open a PuTTY Session and connect to the WPAR IP address displayed on Reservation Information(s) table on the PDP website. When prompted for the user name and password, enter the same user name and password that you use to login to your reserved system (The host system of the Versioned WPAR). On successful login, you will get a screen similar to the one given below.



```
172.29.133.5 - PuTTY
login as: u0000250
u0000250@172.29.133.5's password:
Last unsuccessful login: Thu Aug 12 07:53:51 CDT 2010 on ssh from 172.29.96.37
Last login: Thu Aug 12 08:05:27 CDT 2010 on /dev/pts/0 from 172.29.96.37
*****
*
* Welcome to AIX
*
* Please see the README file in /usr/lpp/bos for information pertinent to
* this release of the AIX Operating System.
*
*
*****
$ █
```