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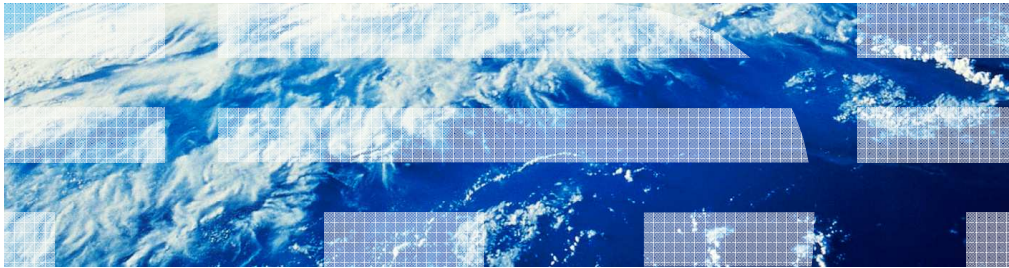
Business Process Management
IBM Business Process Manager V7.5

BPM Standard architecture

This presentation provides a quick overview of the architecture for the Standard configuration of IBM Business Process Manager.

The purpose is to highlight the relationships between the servers, databases and administration tools.

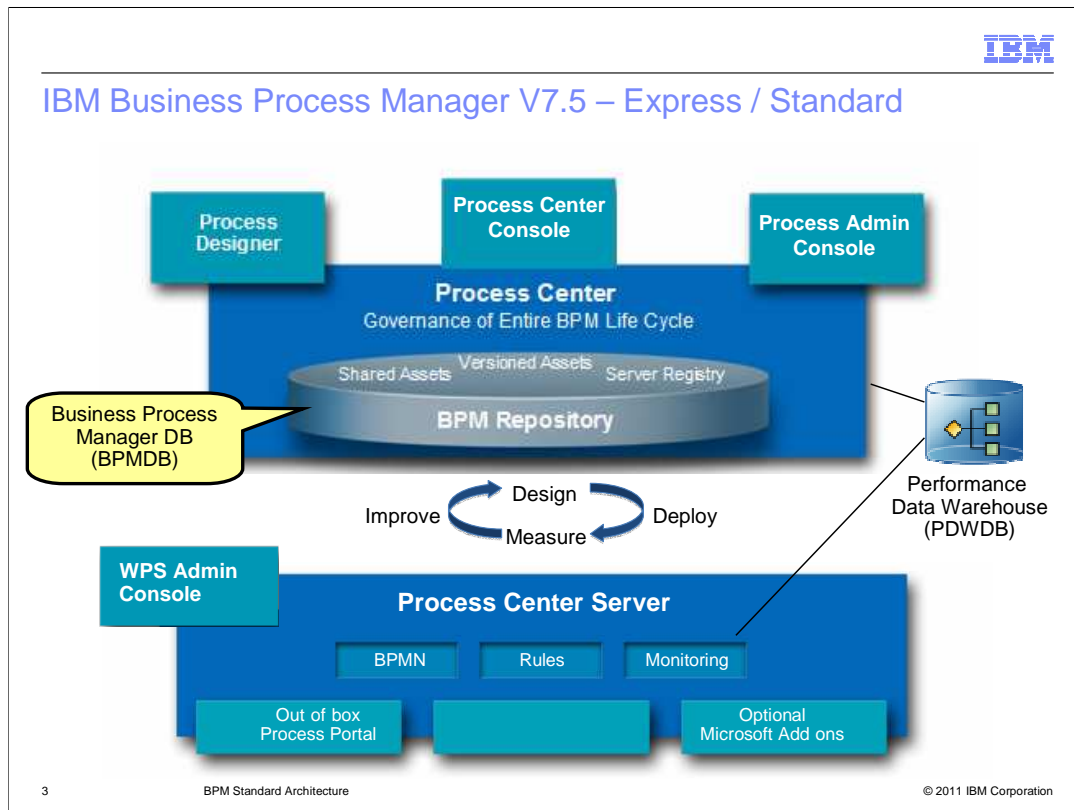Everything presented here applies to BPM Express with the exception of the server clustering.

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BPM Standard Architecture
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There are three perspectives that are discussed.

The Process Center view, the server environments and their databases and then, server clustering with BPM Standard.

The heart of the IBM Business Process Manager V7.5 is the Process Center and Process Center Server. The Process Center constitutes all the tools and interfaces for creating and managing the business process and servers, while the Process Center Server is the runtime component where the business processes run.

The Process Center uses the BPM repository to store the business process definitions and all the related assets. The stored assets are automatically versioned for you. The repository uses an SQL database with a default name of BPMDB, for common database.
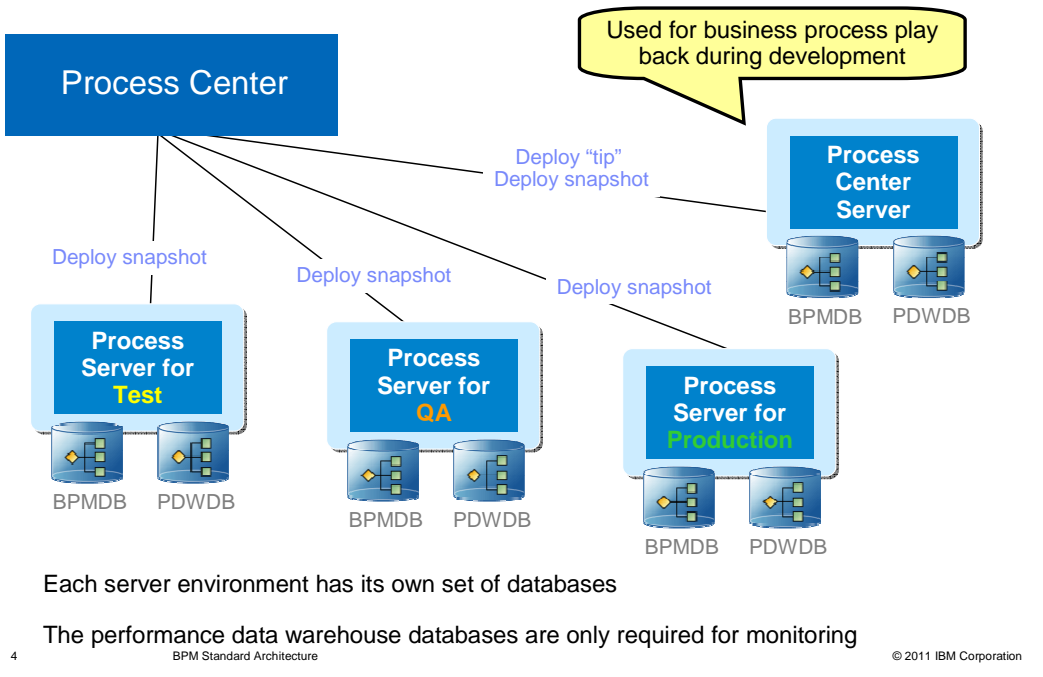
There is an additional database that is optional but is necessary for monitoring. It is called the performance database warehouse. The default name is PDWDB.

You interact with the Process Center through the Process Designer, the Process Center console and the Process Administration console.

The Process Designer is a full function, Eclipsed based application used for creating and editing business processes and managing the server environments.

The Process Center console is a browser based application that lets you manage assets, servers and relationships, but does not provide the capability for creating and editing the business processes.

The Process Administration console is also a browser based application that lets you manage server runtime features such as caches, variables, and events, as well as users
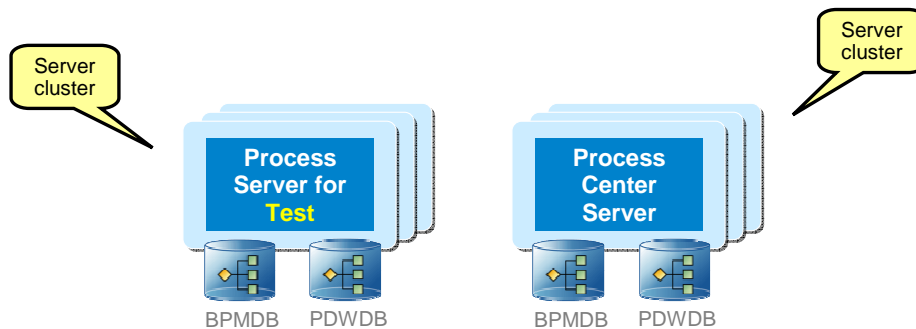
Server environments and databases

As mentioned in the previous slide, the Process Center server is the runtime component for the Process Center. When working with the Process Designer you can run the current version of your business process in the Inspector. When you do this, you are running the tip in the Process Center server.

As your development progresses, you will need to deploy your business process applications to different environments. First, to the test environment, then the quality assurance environment and finally the production environment. Each environment will have its own set of databases.

Server clustering with BPM Standard

- Server clustering is <u>not</u> available for the BPM <u>Express</u> environment
- With BPM Standard…
  - Both horizontal and vertical scaling are supported
  - Process Center Server can be clustered
  - Process Servers can be clustered

Clustering theory and concepts - V6.1

It is important to note that the main distinction between the Express and the Standard environments is the ability to cluster the servers.

The next thing to take away from this slide is that the database sets are for the clusters.

The clustering support is provided by the base WebSphere Application Server framework. To learn more about it, see the

Clustering Theory and concepts - V6.1 presentation. Although this was written for V6.1 the theory and concepts are still applicable.

Summary

- Architecture
  - Process Center view
    - Single point of governance
    - Has a Process Center Server for the development runtime
  - Server environments and databases
    - Each server environment has its own set of databases.
    - With BPM Standard there are two databases
  - Server clustering with BPM Standard
    - The Standard and the Express configurations are the same with the exception of clustering.
      - Server clustering is not available with the Express configuration

This has been a very brief overview of the architecture for the Business Process Manager Standard configuration.

The key things to take away from this presentation are:

The Process Center provides a single point of management for development and runtime and there is a special process server, called the Process Center Server, that is part of the Process Center.

Each server environment requires its own set of databases.

And the Express configuration does not support server clustering.

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