## IBM Workload Deployer V3.1

## Virtual application layers



This presentation will cover IBM Workload Deployer V3.1 virtual application layers.

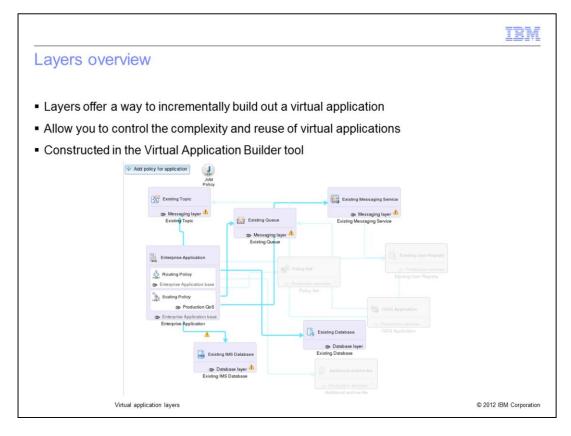
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The presentation will give an in-depth look at layers.

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Section		
	Overview	
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This section covers the overview.

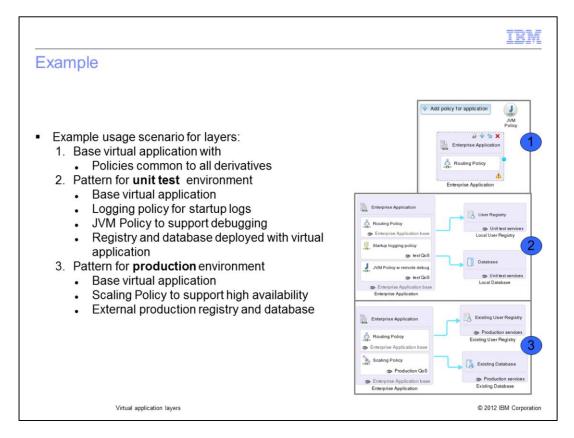


Layers offer a way to incrementally build out your virtual application based on predefined usage scenarios. You construct and apply layers using the Virtual Application Builder tool.

Layers allow you to control the reuse and visual complexity of virtual applications in the virtual application builder. Layers are essentially overlays of additional components, links and policies to meet different usage scenarios.

Layers allow you to control the scope and complexity of what is displayed and editable while editing an application pattern. Disabling a layer makes the items in the layer not editable.

Layers do not impact deployment. All components, links, and policies in the pattern are deployed.

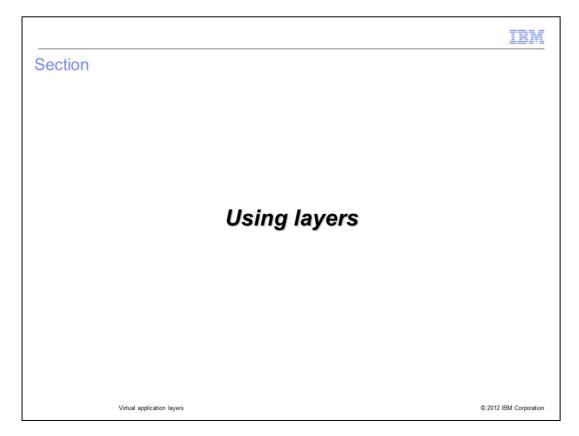


The example on this slide covers two usage scenarios.

The first example is the base virtual application definition with policies and settings that are common to all environments where the application is deployed. Defining the JVM policy at the application level allows it to be overridden in other deployment scenarios. Notice the yellow triangle, it indicates some configuration is incomplete. This pattern is not meant to be deployed; instead it will act as the base layer for the deployment scenarios. Any changes to this pattern are automatically reflected in patterns that use it as a base.

The second example is a pattern that will be deployed internally for development and test where workload demands are known to be even and low. This pattern adds logging and remote debug policies, and includes a database and user registry as virtual machines within the virtual application.

The third example is a pattern that will be deployed in a production environment where workload demands are erratic. This pattern adds a scaling policy which will dynamically scale the VMs up and down based on workload demand; and connects to existing, external database and user registry.



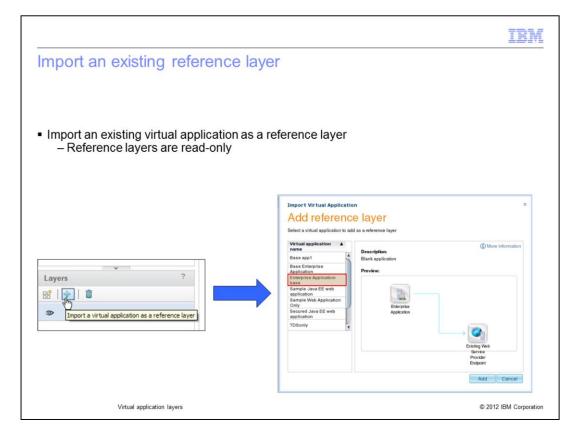
This section will describe how layers can be used in the virtual application builder tool.

_ayer operations		
1.Create	Assets	
<ul> <li>Build a layer from scratch</li> </ul>	Asset name	3030
2.Import	Service Provider Endpoin	t
<ul> <li>Import an existing virtual application as a layer</li> </ul>	Policy Set	
3.Delete – Delete an existing layer	Web Application WebSphere Application Server	
Delete all existing layer	► Database Components	
	Messaging Components	٦.
	OSGi Components	
	Transaction Processing Components	
	User Registry Components	
	Other Components	~
	Layers	?
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The virtual application builder tool provides three layering options. You can create a layer from scratch, import an existing virtual application pattern and use that as a reference layer, and delete an existing layer.

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Create a layer	
<ul> <li>Click create a new layer icon</li> </ul>	
<ul> <li>Provide a descriptive name for the new layer</li> </ul>	
Layers Click text ?	
Layers ?	
Production QoS	
Create a new layer Enterprise Application base	
Production services	
Click eye to enable	
or disable layer	
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The first step to create a layer is to click the "Create a new layer" icon. This will result in a new layer being created with a default name "layer". You can then click the text of the layer and provide a descriptive name. At this point you have a layer by name only; it is not associated with any components, links or policies. Notice the eye icon located to the left of each layer, clicking this icon will toggle the layer on and off.



To import a virtual application as a reference layer, click the blue plus sign icon. This will bring up a panel which allows you to choose which virtual application you want to reference. From initial appearances this type of layer looks no different than one created from scratch, but there is a key difference: this is a reference to an existing virtual application pattern. This layer is read-only. You can add additional layers on top, but you cannot modify the reference layer. If the referenced virtual application pattern changes then your reference layer changes.

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Component and policy	layer assignme	ent	
<ul> <li>Components and policies can</li> </ul>	be assigned to a lay	er	
Messaging Components     OSGi Components     Transaction Demonstration     Layers     Production QoS     Enterprise Application base     Production services     C	Enterprise Application	Existing Web Service Provider Endpoint Control Endpoint Existing Web Service Provider Endpoint Existing User Registry Existing User Registry Priduction services Pride Production Services Control Endpoint	
	Enterprise Application	Production Database	
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To configure a layer you first need to have a baseline virtual application built. Second, assign each component and policy to the layer that you want. This can be done by clicking the Layer icon located at the bottom of each component and policy. Note, this layer icon does not exist if your virtual application contains only one layer.

	IBN
Enable and disable layers	
- Frankla and disable individual layer	-
<ul> <li>Enable and disable individual layer</li> </ul>	IS
<ul> <li>Cannot modify disabled layers</li> </ul>	
Messaging Components	
OSGi Components     Transaction Procession Components	Existing Web Service Provider Endpoint
Layers ?	Enterprise Application
88   🗢   🛢	Existing Web Service Provider Endpoint
Production QoS	Routing Policy
Enterprise Application base	Senterprise Application base
Production services	Scaling Policy
4	Production QoS     Production User Registry
	Enterprise Application base Existing Database
Click eye to enable	as Productor services
or disable layer	Production Database
	Disabled layer
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Each layer can be enabled and disabled independently of the other layers. To enable or disable a layer click the layer icon under the Layers column on the left side of the screen. When a layer is disabled the icon and associated components, links and policies located in the canvas are not available.

Layers are defined and assigned at design time. What this means is that you must build out your virtual application including any layers and save before deployment.

Layers allow you to control the scope complexity of what is displayed and editable while editing an application pattern. Disabling a layer makes the items in the layer not editable. It does not impact deployment; all components, links, and policies in the pattern are deployed.

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Section			
	Sumi	mary	
Virtual application la	1075		© 2012 IBM Corporation

This section will give a brief summary.

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Summary	
<ul> <li>Layers allow you to incrementally build out a virtual application</li> </ul>	
<ul> <li>Allow you to control the complexity and reuse of virtual applications</li> </ul>	
<ul> <li>Constructed in the Virtual Application Builder tool</li> </ul>	
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The key to understanding layers, is that layers are a way to incrementally build out a virtual application based on some predefined usage scenario. Layers allow you to take a single baseline structure and incrementally build upon it which results in reduced development time and consistent build outs.

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