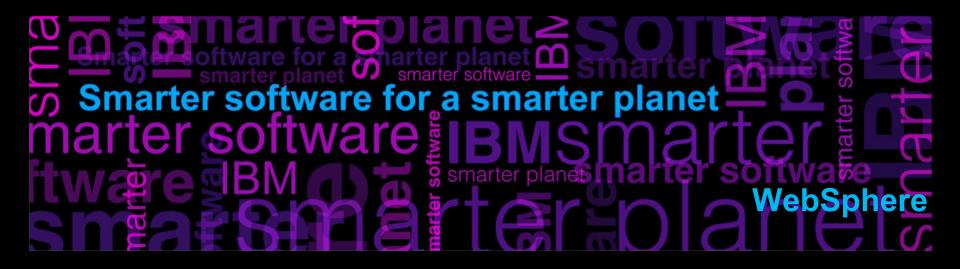


VISUAL CONFIGURATION EXPLORER



EXAMPLE A CONTRACTOR OF A CON

Agenda

- Motivation for Visual Configuration Explorer (VCE) ?
- Value of VCE
- IBM Support Assistant
- VCE Overview
 - Search
 - Compare
 - Validate
 - Headless Operation
 - Diagrams
- VCE Terminology
- Architecture
- Demo
- Questions

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Motivation for Visual Configuration Explorer?

Free Tool (Tech Preview)

- Reduce time to understand System Configuration
- Quicker navigation to specific pieces of configuration data
- Quickly validate configuration (comparison/validation rules)

Increase Customer Satisfaction

- Help IBM Support reduce time needed to solve customer problems
- Make it easier for customers to solve configuration related issues

Other VCE Benefits

- Use in other tools : Headless script operation
- Use in Testing (functional, performance..), Deployments etc.

Fixing problems ...

... is much easier with the right tool for the job!

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Value of VCE

- Uniform Visualization of Multiple Product Configuration information
- Compact, complete, and logical structure of the data (topology objects, relationships, properties)
- Cross-product relationships
- Sophisticated exploration aids diagramming, searching, comparing and validating
- Extensible drawing aids templates
- Automation Framework Headless CLI-based automation of VCE function

Software for a smarter planet Construction

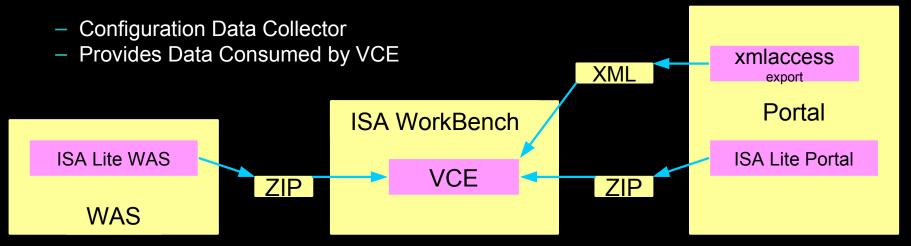


IBM Support Assistant

ISA Workbench

- Provides the "toolbox" in which analysis tools reside (e.g. VCE)
- The place to go for Serviceability Tools across product families
- Assist with opening PMRs and working with IBM Support
- Product information to locate APARs and fixes
- Search feature to query IBM and non-IBM knowledge banks

ISA Lite



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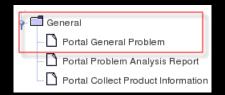


IBM Support Assistant

- Configuration Data Collection Tools
 - WebSphere Portal
 - ISA Lite for WebSphere Portal v6.x v7.x
 - ISA Data Collector for WebSphere Portal v8.x
 - xmlaccess export

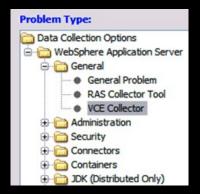
- WebSphere Application Server

- ISA Lite for WAS v6.x v7.x v8.0
- ISA Data Collector for WAS v6.x v7.x v8.0
- Data Collection Tools for WAS 8.5
- "collector" for WAS deprecated as of WAS v7



(OK for VCE) (?) (OK for VCE)

(OK for VCE) (?) (incompatible with VCE) (incompatible with VCE)



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VCE OVERVIEW - Search

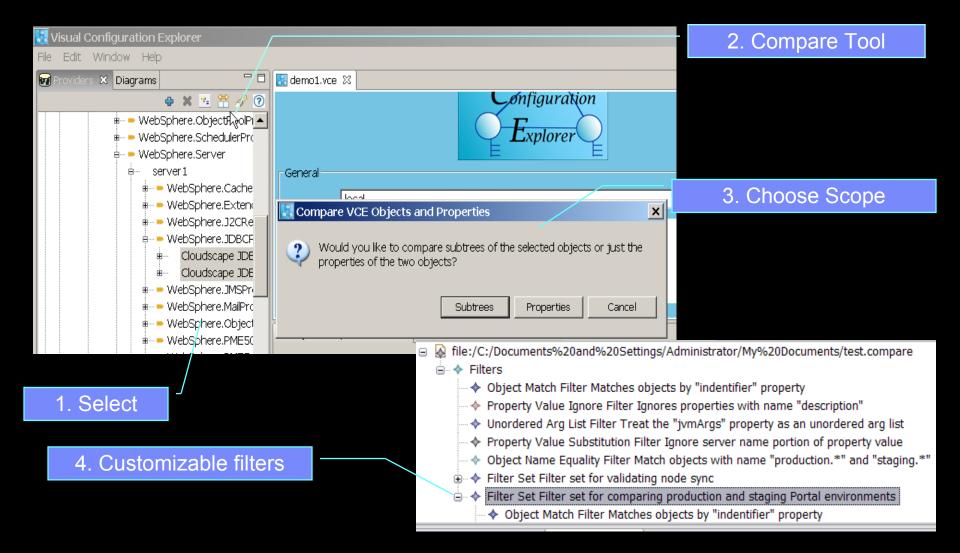
Powerful Scoped Searching

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<u>F</u> ile <u>E</u> dit <u>W</u> indow <u>H</u> elp				
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 New Providers Alias-[WebSphere] cell=WPS61RC-ND7CELL: CH1-[WebSphere] techchp1.rtp.raleigh.ibm.com (1/25/08 5: CH2-[WebSpherePortal] techchp1.rtp.raleigh.ibm.com (1/25/08 5:57 PM) CH3-[TDS] techchp1.rtp.raleigh.ibm.com (1/25/08 5:57 PM) { CH4-[MQ] techchp1.rtp.raleigh.ibm.com (1/25/08 5:57 PM) { CH5-[IHS] techchp1.rtp.raleigh.ibm.com (1/25/08 5:57 PM) { CH6-[DB2] techchp1.rtp.raleigh.ibm.com (1/25/08 5:57 PM) { 			isual Configuration Explorer	
		Properties Sea	rch Settings	
	Object	Search string	.*heapsize.*	
<	Case s	ensitive	Regular expression	
🗄 Outline 🛛 🖓 🖓	Prope Search	n property node names	Search property names	
An outline is not available.		n property values		
	maxin			
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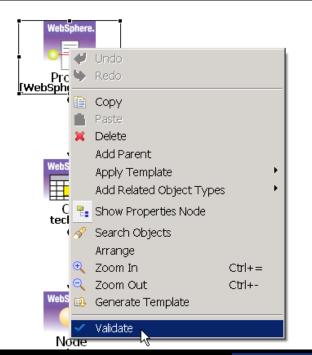
VCE OVERVIEW - Compare



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VCE OVERVIEW - Validate



Validation Results 🗙				
				-
Severity	Rule Name	Target	Message	
🗉 🕭 Warning	Non Default Log Level D	server1	The log level detail has a non-default value	
			** services[2]::startupTraceSpecification: *=all=disabled	
🗆 🛈 Info	Verbose mode garbage c	server1	Verbose mode garbage collection is recommended for serviceability	
			jvmEntries[0]::verboseModeGarbageCollection: false	
🗉 🕭 Warning	Non Default Log Level D	WebSphere_Portal	The log level detail has a non-default value	
			*= services[2]::startupTraceSpecification: *=all=disabled	
🗉 🚺 Info	Verbose mode garbage c	WebSphere_Portal	Verbose mode garbage collection is recommended for serviceability	

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VCE OVERVIEW - Headless

Headless Runtime can be installed directly on target systems

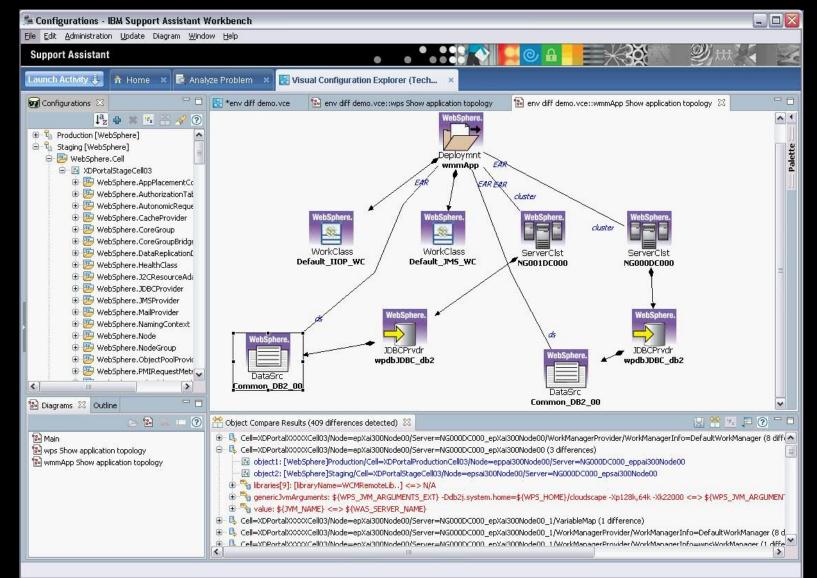
- -ANT-based scripting drives VCE function from CLI
- -Allows integration with other roll-your-own or formal systems management infrastructures

```
</description>
         <!-- Default main target for automation-example. -->
         <target name="main" depends="initProps" description="Main target for automation-example.">
                  <!--Call the WebSphere Exporter-->
                  <ant antfile="wasexporter\wasexport.xml" />
                  <antcall target="createWorkspace" />
                  <antcall target="createProviders" />
                  <antcall target="exportConfig" />
                  <antcall target="createAppServerDiagram" />
                  <antcall target="validateConfig" />
                  <vce.saveWorkspace workspace="ws1" />
         </target>
                           createWorkspace:
                           [echo] Creating workspace foo.vce
[vce.createWorkspace] File model 'ws1' exists -- overwriting it.
                           createProviders:
                                [echo] Creating providers from c:\bofa\vce\wasconfigs\foo.configuration using current
                           [vce.createProviders] Creating provider at relative path ${workspace.path}/wasconfigs/foo.configuration
                           exportConfig:
                           [vce.query] Query found 237 objects
                           [vce.query] Query results written to C:\bofa\vce\foo.export.xml
                           createAppServerDiagram:
                           [vce.createDiagram] Adding 3 objects to diagram.
                           validateConfig:
                           [vce.validate] Wrote validation results to file C:\bofa\vce\foo.validate.xml
                           BUILD SUCCESSFUL
                           BUILD SUCCESSFUL
                           Iotal time: 2 minutes 56 seconds
```

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VCE OVERVIEW - Diagrams



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VCE TERMINOLGY

VCE Workspace

- A local file for caching, saving and personalizing information
- The VCE client allows the user to create/open multiple workspaces

Provider

- Source of topology and configuration data
- Currently WAS, Portal and xmlaccess export supported well
- Out of date? : DB2, IBM Tivoli Directory Server, IHS, and WebSphere MQ
- The user adds one or more providers to a workspace
- Next release: wimconfig.xml support, Connections Provider ?

Topology Objects and Relationships

- Normalized representation of configuration data - Created by providers

Properties

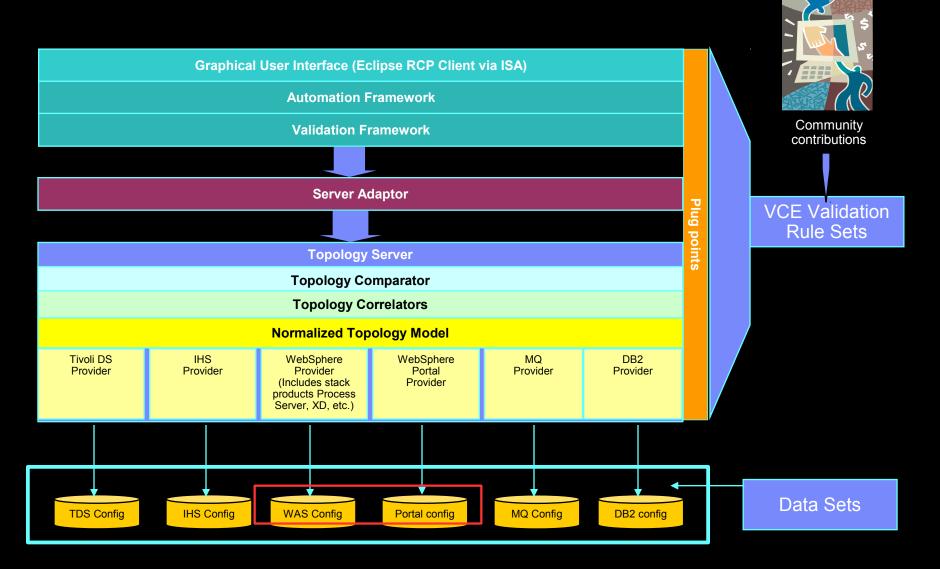
- Detailed information for a topology object instance; Conceptually a tree of tables

Diagrams

Visualization of topology objects and relationships

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ARCHITECTURE





Demonstration

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Where to find more information

VCE Community on developerWorks

https://ibm.biz/BdxZxq

■ IBM Support Assistant – WorkBench (→ VCE Tool Download)

http://www.ibm.com/software/support/isa

IBM Support Assistant (ISA) Lite for WebSphere Portal

http://www.ibm.com/support/docview.wss?uid=swg24008662

 IBM Support Assistant (ISA) Lite for WebSphere Application Server http://www.ibm.com/support/docview.wss?uid=swg24020502



Any Questions ?