

WCM Caching Issue

Problem description:

Content once authored(updated) on the WCM authoring server doesn't get updated on the remote rendering portlets which are placed on four WPS servers those are clustered but does get updated as soon as WCM authoring server is restarted.

Suspected root cause:

Content caching is enabled which doesn't reflect the changes but as soon as cached content gets expired or explicitly server is restarted the cached content flushes.

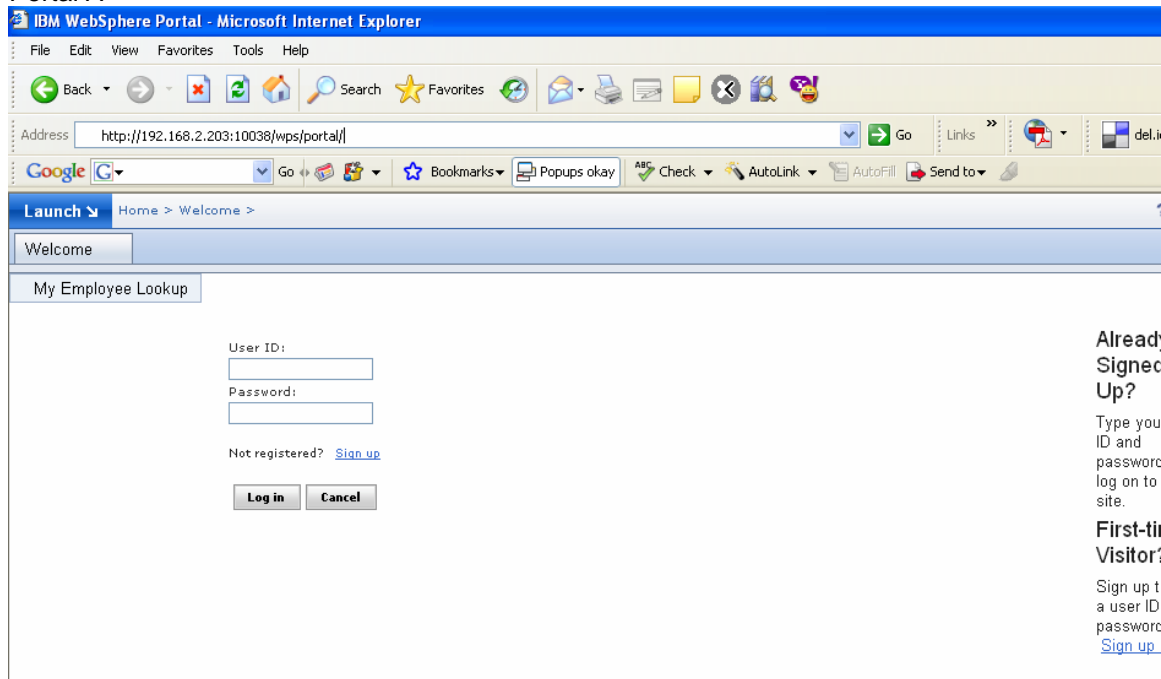
Possible Solution:

Install the **cache monitor application** to monitor cache content and policies on the WAS and on Edge components but cache monitor doesn't show cached WCM content, In order to monitor and flush WCM cached content a specific **jsp component** has been designed to specifically do the job through the web interface and after making changes to the content the specific entry or the whole cache can be manually flushed, WAS cache is also to be flushed and changed/updated content(s) get updated on the remote rendering portlet even remote rendering portlet's cache spec can be changed for further elevating the robustness.

Following is the environment and scenario where I will elaborate this caching issue and it's tested Solution.

Two WPS Portal Clones.

Portal A



The screenshot shows a Microsoft Internet Explorer browser window displaying the IBM WebSphere Portal. The address bar shows the URL <http://192.168.2.203:10038/wps/portal/>. The browser interface includes a menu bar (File, Edit, View, Favorites, Tools, Help), a toolbar with navigation buttons (Back, Forward, Stop, Home, Search, Favorites, Refresh), and a search bar. The portal content area shows a "Welcome" message and a "My Employee Lookup" section. The "My Employee Lookup" section contains a form with the following fields and controls:

- User ID:
- Password:
- Not registered? [Sign up](#)
- Log in Cancel

On the right side of the page, there is a section titled "Already Signed Up?" with the text "Type your ID and password log on to site." Below this, there is a section titled "First-time Visitor:" with the text "Sign up to a user ID password" and a [Sign up](#) link.

Portal B

IBM WebSphere Portal - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Home Search Favorites Refresh Print Mail Stop

Address http://192.168.2.204:10038/wps/portal/ Go Links del.icio.us

Google Go Bookmarks 167 blocked Check AutoLink AutoFill Send to

Launch Home > Welcome >

Welcome

My Employee Lookup

User ID:

Password:

Not registered? [Sign up](#)

Already Signed Up?
Type your ID and password - log on to the site.

First-time Visitor?
Sign up to a user ID & password.
[Sign up now](#)

Portal A and Portal B are vanilla installations of Portal 6.0.0.0.

Portal A has WCM authoring enabled so it would be used as WCM authoring server and Site level Caching enabled with the following sample WCMConfigService.properties file.

```
connect.defaulthost=http://${WCM_HOST}:${WCM_PORT}/${WCM_CONTEXT_ROOT}
connect.defaulturl=http://${WCM_HOST}:${WCM_PORT}/${WCM_WPS_CONTEXT_ROOT}/${WCM_WPS_DEFAULT_HOME}
connect.schedulersleeppperiod=1000
connect.maxconcurrenttasks=20
connect.processcontent=true
connect.logrequestparameters=false
connect.usessl=true
connect.useconnectdecoder=false
connect.defaultservletpath=/connect
connect.secureservletpath=/myconnect
connect.defaultencoding=UTF8
connect.requestusernameparametername=username
connect.requestpasswordparametername=pwd
connect.workmanagerconfig.systemthreadstartuptimeout=30
connect.workmanagerconfig.maxsessionworkers=10
connect.workmanagerconfig.waitinterval=1
connect.workmanagerconfig.maxwaitinterval=10
connect.usermanagement.admingroupcommonname=wcmadmins
connect.usermanagement.groupprefix=cn
connect.usermanagement.loginpagelocation=http://${WCM_HOST}:${WCM_PORT}/${WCM_CONTEXT_ROOT}/webinterface/login/login.jsp
connect.usermanagement.loginservletpath=${WCM_CONTEXT_ROOT}/login
connect.usermanagement.usercommonnameattribute=cn
connect.moduleconfig.ajpe.aptrixhome=../
#getchildren for dependent modules
connect.moduleconfig.ajpe.dependentmodules=ensureusermanagement,syndication,ajperes,default
connect.moduleconfig.ajpe.strategycache.flushexpiredinterval=120
connect.moduleconfig.ajpe.strategycache.writeindexinterval=90
connect.moduleconfig.ajpe.strategycache.cachedir=../ilwcm/system/cache/
connect.moduleconfig.ajpe.strategycache.memcachesize=1000
connect.moduleconfig.ajpe.strategycache.diskcachesize=5000
connect.moduleconfig.ajpe.strategyiteratorcache.flushexpiredinterval=120
connect.moduleconfig.ajpe.strategyiteratorcache.writeindexinterval=90
connect.moduleconfig.ajpe.strategyiteratorcache.cachedir=../ilwcm/system/iterator/cache/
connect.moduleconfig.ajpe.strategyiteratorcache.memcachesize=0
```

```
connect.moduleconfig.ajpe.strategyiteratorcache.diskcachestrategy=none
#connect.moduleconfig.ajpe.contentcache.defaultcontentcache=NONE
connect.moduleconfig.ajpe.contentcache.defaultcontentcache=Site
#connect.moduleconfig.ajpe.contentcache.contentcacheexpires=REL 300s
connect.moduleconfig.ajpe.contentcache.contentcacheexpires=REL 36000s
connect.moduleconfig.ajpe.contentcache.flushexpiredinterval=120
connect.moduleconfig.ajpe.contentcache.writeindexinterval=90
connect.moduleconfig.ajpe.contentcache.cachedir=../ilwwcm/system/contentcache/
connect.moduleconfig.ajpe.contentcache.memcachesize=1000
connect.moduleconfig.ajpe.contentcache.diskcachesize=5000
connect.moduleconfig.syndication.debugmode=false
connect.moduleconfig.syndication.subscriber=com.aptrix.deployment.subscriber.PlutoSubscriberInterface
connect.moduleconfig.syndication.syndicator=com.aptrix.deployment.syndicator.PlutoSyndicatorInterface
connect.moduleconfig.syndication.inittasks=true
connect.moduleconfig.cacher.cacherclass=com.aptrix.cacher.Cacher
connect.moduleconfig.cacher.destdir=${WCM_ILWWCM_HOME}/ilwwcm/cacher
connect.moduleconfig.cacher.tempdir=${WCM_ILWWCM_HOME}/ilwwcm/cacher/temp
connect.moduleconfig.cacher.delay=1
connect.moduleconfig.cacher.busydelay=5
connect.moduleconfig.cacher.busystart=9:00 am
connect.moduleconfig.cacher.busyend=5:00 pm
connect.moduleconfig.cacher.overwritecache=true
connect.moduleconfig.cacher.defaultcontentname=index.html
connect.moduleconfig.cacher.rendereruser=Anonymous
connect.moduleconfig.cacher.task.cacherurl=http://${WCM_HOST}:${WCM_PORT}/${WCM_CONTEXT_ROOT}/connect/
connect.moduleconfig.cacher.task.servletpath=/connect
connect.moduleconfig.cacher.task.sites=[SiteA],[SiteB]
connect.moduleconfig.cacher.task.interval.recurrence=10
connect.moduleconfig.cacher.task.interval.startdelay=1
connect.moduleconfig.cacher.task.scheduled.times=3:00 am
connect.moduleconfig.blwebserver.remoteaccess.html=true
connect.moduleconfig.blwebserver.remoteaccess.wml=true
connect.moduleconfig.blwebserver.remoteaccess.sql=true
connect.moduleconfig.blwebserver.remoteaccess.mail=true
connect.moduleconfig.blwebserver.allowfileprotocol=false
connect.moduleconfig.blwebserver.blwebservercache.flushexpiredinterval=120
connect.moduleconfig.blwebserver.blwebservercache.writeindexinterval=90
connect.moduleconfig.blwebserver.blwebservercache.cachedir=../connect/blweb
connect.moduleconfig.blwebserver.blwebservercache.memcachesize=100
connect.moduleconfig.blwebserver.blwebservercache.diskcachesize=100
connect.moduleconfig.blwebserver.blwebservercache.memcachestrategy=com.presence.connect.cache.MostRecentStrategy
connect.moduleconfig.blwebserver.blwebservercache.diskcachestrategy=com.presence.connect.cache.MostRecentStrategy
connect.moduleconfig.mail.fatalmail.fatalmailmgr=Framework@yourServer.com
connect.moduleconfig.mail.fatalmail.fatalmailfrom=Framework@yourServer.com
connect.moduleconfig.formprocessor.form.basepath=file:///${WCM_WEB_APP_HOME}
connect.moduleconfig.formprocessor.form.admin=http://${WCM_HOST}:${WCM_PORT}/${WCM_CONTEXT_ROOT}/ac_admin/form/admin.jsp
connect.moduleconfig.formprocessor.operator.not=com.presence.connect.validator.rule.Not
connect.moduleconfig.formprocessor.operator.equals=com.presence.connect.validator.rule.Equals
connect.moduleconfig.formprocessor.operator.fieldref=com.presence.connect.validator.rule.ValueRef
connect.moduleconfig.formprocessor.operator.length=com.presence.connect.validator.rule.Length
connect.moduleconfig.formprocessor.operator.value=com.presence.connect.validator.rule.Value
connect.moduleconfig.formprocessor.operator.sum=com.presence.connect.validator.rule.Sum
connect.moduleconfig.formprocessor.operator.lt=com.presence.connect.validator.rule.LessThan
connect.moduleconfig.formprocessor.operator.gt=com.presence.connect.validator.rule.GreaterThan
connect.moduleconfig.formprocessor.operator.lte=com.presence.connect.validator.rule.LessThanEquals
connect.moduleconfig.formprocessor.operator.gte=com.presence.connect.validator.rule.GreaterThanEquals
connect.moduleconfig.formprocessor.operator.multiply=com.presence.connect.validator.rule.Multiply
connect.moduleconfig.formprocessor.operator.null=com.presence.connect.validator.rule.Null
connect.moduleconfig.formprocessor.operator.and=com.presence.connect.validator.rule.And
connect.moduleconfig.formprocessor.operator.or=com.presence.connect.validator.rule.Or
connect.moduleconfig.formprocessor.type.number=com.presence.connect.validator.NumericalValidator
connect.moduleconfig.formprocessor.type.date=com.presence.connect.validator.DateValidator
connect.moduleconfig.formprocessor.type.datetime=com.presence.connect.validator.DateTimeValidator
connect.moduleconfig.formprocessor.type.time=com.presence.connect.validator.TimeValidator
connect.businesslogic.processunknownhosts=false
connect.businesslogic.hosts.[HOST]=true
connect.businesslogic.defaultcacheexpires=REL 3D
```

```
connect.businesslogic.defaultcache=false
connect.businesslogic.moduleresponsecacheconfig.flushexpiredinterval=120
connect.businesslogic.moduleresponsecacheconfig.writeindexinterval=90
connect.businesslogic.moduleresponsecacheconfig.cachedir=./connect/module/
connect.businesslogic.moduleresponsecacheconfig.memcachesize=1000
connect.businesslogic.moduleresponsecacheconfig.diskcachesize=5000
#Children definition for connect.businesslogic.module
connect.businesslogic.module.template.class=com.presence.connect.business.template.DataFormatter
connect.businesslogic.module.template.remoteaccess=true
connect.businesslogic.module.template.autoload=false
connect.businesslogic.module.multi_template.class=com.presence.connect.business.template.MultiDataFormatter
connect.businesslogic.module.multi_template.remoteaccess=true
connect.businesslogic.module.multi_template.autoload=true
connect.businesslogic.module.web.class=com.presence.connect.business.web.BLWebServer
connect.businesslogic.module.web.remoteaccess=true
connect.businesslogic.module.web.autoload=false
connect.businesslogic.module.mail.class=com.presence.connect.business.mail.MailBL
connect.businesslogic.module.mail.remoteaccess=true
connect.businesslogic.module.mail.autoload=false
connect.businesslogic.module.form.class=com.presence.connect.business.form.FormProcessor
connect.businesslogic.module.form.remoteaccess=true
connect.businesslogic.module.form.autoload=false
connect.businesslogic.module.aggregator.class=com.presence.connect.business.web.SubPageAggregator
connect.businesslogic.module.aggregator.remoteaccess=true
connect.businesslogic.module.aggregator.autoload=false
connect.businesslogic.module.default.class=com.aptrix.pluto.renderer.RendererModule
connect.businesslogic.module.default.remoteaccess=true
connect.businesslogic.module.default.autoload=false
connect.businesslogic.module.ajpe.class=com.aptrix.pluto.PlutoModule
connect.businesslogic.module.ajpe.remoteaccess=false
connect.businesslogic.module.ajpe.autoload=true
connect.businesslogic.module.federatedproxy.class=com.aptrix.pluto.resource.FEDResourceServerModule
connect.businesslogic.module.federatedproxy.remoteaccess=true
connect.businesslogic.module.federatedproxy.autoload=false
connect.businesslogic.module.ajpecatselect.class=com.aptrix.pluto.CategoryProfileUpdaterModule
connect.businesslogic.module.ajpecatselect.remoteaccess=true
connect.businesslogic.module.ajpecatselect.autoload=false
connect.businesslogic.module.memberfixer.class=com.aptrix.pluto.security.MemberFixerModule
connect.businesslogic.module.memberfixer.remoteaccess=true
connect.businesslogic.module.memberfixer.autoload=false
connect.businesslogic.module.ajperes.class=com.aptrix.pluto.resource.ResourceServerModule
connect.businesslogic.module.ajperes.remoteaccess=true
connect.businesslogic.module.ajperes.autoload=false
connect.businesslogic.module.versioningenablement.class=com.aptrix.versioncontrol.VersioningEnablementModule
connect.businesslogic.module.versioningenablement.remoteaccess=true
connect.businesslogic.module.versioningenablement.autoload=false
connect.businesslogic.module.workflowenablement.class=com.aptrix.pluto.workflow.WorkflowEnablementModule
connect.businesslogic.module.workflowenablement.remoteaccess=true
connect.businesslogic.module.workflowenablement.autoload=false
connect.businesslogic.module.itemdispatcher.class=com.aptrix.deployment.syndicator.ItemDispatcher
connect.businesslogic.module.itemdispatcher.remoteaccess=true
connect.businesslogic.module.itemdispatcher.autoload=false
connect.businesslogic.module.plutouploadfile.class=com.aptrix.pluto.transfer.PlutoUploadFile
connect.businesslogic.module.plutouploadfile.remoteaccess=true
connect.businesslogic.module.plutouploadfile.autoload=false
connect.businesslogic.module.plutodownloadfile.class=com.aptrix.pluto.transfer.PlutoDownloadFile
connect.businesslogic.module.plutodownloadfile.remoteaccess=true
connect.businesslogic.module.plutodownloadfile.autoload=false
connect.businesslogic.module.ensureusermanagement.class=com.presence.connect.wmmcomms.EnsureUserManagementModule
connect.businesslogic.module.ensureusermanagement.remoteaccess=false
connect.businesslogic.module.ensureusermanagement.autoload=true
connect.businesslogic.module.ensureusermanagement.required=true
connect.businesslogic.module.pdmproxy.class=com.aptrix.pluto.resource.PDMResourceServerModule
connect.businesslogic.module.pdmproxy.remoteaccess=true
connect.businesslogic.module.pdmproxy.autoload=false
connect.businesslogic.module.synd.class=com.aptrix.syndication.business.syndicator.ConnectModule
```

connect.businesslogic.module.synd.remoteaccess=true
connect.businesslogic.module.synd.autoload=false
connect.businesslogic.module.subs.class=com.apatrix.syndication.business.subscriber.ConnectModule
connect.businesslogic.module.subs.remoteaccess=true
connect.businesslogic.module.subs.autoload=false
connect.businesslogic.module.syndication.class=com.apatrix.syndication.SyndicationModule
connect.businesslogic.module.syndication.remoteaccess=true
connect.businesslogic.module.syndication.autoload=false
connect.businesslogic.dataproviders.sql=com.presence.connect.business.template.provider.SQLDataProvider
connect.businesslogic.formaction.validate=com.presence.connect.business.form.FormValidator
connect.businesslogic.formaction.reenter=com.presence.connect.business.form.FormReentry
connect.businesslogic.formaction.sql=com.presence.connect.business.form.action.SQLAction
connect.businesslogic.formaction.mail=com.presence.connect.business.mail.MailBL
connect.businesslogic.formaction.html=com.presence.connect.business.web.BLWebServer
connect.businesslogic.formaction.admin=com.presence.connect.business.admin.ConnectAdmin
connect.businesslogic.formaction.clear=com.presence.connect.business.form.ClearFormData
connect.contentmergerconfig.text/html=com.apatrix.pluto.PlutoContentMerger
connect.proxyhost=localhost
connect.proxyport=8081
connect.connector.mailconnector=defaultsmtpserver,defaultfromaddress,defaultreplytoaddress
connect.connector.mailconnector.defaultsmtpserver=mail.yourmailserver.com
connect.connector.mailconnector.defaultfromaddress=admin@yourmailserver.com
connect.connector.mailconnector.defaultreplytoaddress=admin@yourmailserver.com
connect.connector.mailconnector.connectionmanager.maxconnectionpools=1000
connect.connector.mailconnector.connectionmanager.maxconnectionsperpool=64
connect.connector.httpconnector=maxconnectattempts,timeoutperiod,defaultcacheexpires,defaultcache,denyunknownhosts
connect.connector.httpconnector.maxconnectattempts=5
connect.connector.httpconnector.timeoutperiod=30
connect.connector.httpconnector.defaultcacheexpires=REL 3D
connect.connector.httpconnector.defaultcache=false
connect.connector.httpconnector.denyunknownhosts=false
connect.connector.httpconnector.httpresponse.301=com.presence.connect.connector.http.HttpResponseHandler_301
connect.connector.httpconnector.httpresponse.302=com.presence.connect.connector.http.HttpResponseHandler_302
connect.connector.httpconnector.httpresponse.401=com.presence.connect.connector.http.HttpResponseHandler_401
connect.connector.httpconnector.hosts.[HOST].defaultcacheexpires=REL 2h
connect.connector.httpconnector.hosts.[HOST].defaultcache=true
connect.connector.httpconnector.servertypes.domino.overridecacheexpiryheaders=true
connect.connector.httpconnector.servertypes.domino.defaultcacheexpires=REL 6h
connect.connector.httpconnector.servertypes.domino.defaultcache=true
connect.connector.httpconnector.servertypes.domino.httpresponse.404=com.presence.connect.connector.http.HttpResponseHandler_Domino404
connect.connector.ldapconnector=defaulthost,defaultport,defaultscope,defaultversion,defaultbasearchdn,defaultauthdn,defaultauthpwd,defaulttimeout,usessl
connect.connector.ldapconnector.defaulthost=localhost
connect.connector.ldapconnector.defaultport=389
connect.connector.ldapconnector.defaultscope=SUBTREE
connect.connector.ldapconnector.defaultversion=3
connect.connector.ldapconnector.defaultbasearchdn=o=your_org.com
connect.connector.ldapconnector.defaultauthdn=cn=yourDefaultId
connect.connector.ldapconnector.defaultauthpwd=password
connect.connector.ldapconnector.defaulttimeout=1000
connect.connector.ldapconnector.connectionmanager.maxconnectionpools=1000
connect.connector.ldapconnector.connectionmanager.maxconnectionsperpool=64
connect.connector.ldapconnector.usessl=false
connect.connector.sqlconnector=defaulthost,defaultusername,defaultretries,defaulttimeout,defaultcache
connect.connector.sqlconnector.defaulthost=
connect.connector.sqlconnector.defaultusername=
connect.connector.sqlconnector.defaultretries=1
connect.connector.sqlconnector.defaulttimeout=1000
connect.connector.sqlconnector.defaultcache=true
connect.connector.sqlconnector.connectionmanager.maxconnectionpools=1000
connect.connector.sqlconnector.connectionmanager.maxconnectionsperpool=64
connect.connector.sqlconnector.databases.[JDBC_URL].driver=com.ibm.db2.jdbc.app.DB2Driver
connect.connector.sqlconnector.databases.[JDBC_URL]
connect.connector.cm8connector.connectionmanager.maxconnectionpools=1000
connect.connector.cm8connector.connectionmanager.maxconnectionsperpool=64

connect.connector.federatedconnector=defaultserveralias,defaultusername,defaultpassword,connectionstring,maxresultsetreturned,connectiontimeout

connect.connector.federatedconnector.defaultserveralias=
connect.connector.federatedconnector.defaultusername=
connect.connector.federatedconnector.defaultpassword=
connect.connector.federatedconnector.connectionstring=
connect.connector.federatedconnector.maxresultsreturned=100
connect.connector.federatedconnector.connectiontimeout=300
connect.connector.contentmodelconnector=defaultlibrary,defaultusername,defaultpassword
connect.connector.contentmodelconnector.defaultlibrary=DM
connect.connector.contentmodelconnector.defaultusername=[PortalAdminId]
connect.connector.contentmodelconnector.defaultpassword=[PortalAdminPwd]
connect.connector.contentmodelconnector.connectionmanager.maxconnectionpools=1000
connect.connector.contentmodelconnector.connectionmanager.maxconnectionsperpool=64
connect.htmlelement.img=com.presence.connect.data.xml.html.HTMLImage
connect.htmlelement.a=com.presence.connect.data.xml.html.HTMLAnchor
connect.htmlelement.applet=com.presence.connect.data.xml.html.HTMLApplet
connect.htmlelement.area=com.presence.connect.data.xml.html.HTMLArea
connect.htmlelement.br=com.presence.connect.data.xml.html.HTMLNoEndTag
connect.htmlelement.frame=com.presence.connect.data.xml.html.HTMLFrame
connect.htmlelement.body=com.presence.connect.data.xml.html.HTMLBody
connect.htmlelement.form=com.presence.connect.data.xml.html.HTMLForm
connect.htmlelement.link=com.presence.connect.data.xml.html.HTMLLink
connect.htmlelement.connect=com.presence.connect.data.xml.html.HTMLConnect
connect.htmlelement.connectexclude=com.presence.connect.data.xml.html.HTMLConnectExclude
connect.htmlelement.meta=com.presence.connect.data.xml.html.HTMLMeta
connect.htmlelement.resultset=com.presence.connect.data.xml.html.HTMLResultSet
connect.htmlelement.iresultset=com.presence.connect.data.xml.html.HTMLEmbeddedResultSet
connect.htmlelement.field=com.presence.connect.data.xml.html.HTMLField
connect.htmlelement.option=com.presence.connect.data.xml.html.HTMLOption
connect.htmlelement.select=com.presence.connect.data.xml.html.HTMLSelect
connect.htmlelement.input=com.presence.connect.data.xml.html.HTMLInput
connect.htmlelement.table=com.presence.connect.data.xml.html.HTMLTable
connect.htmlelement.td=com.presence.connect.data.xml.html.HTMLTableCell
connect.htmlelement.script=com.presence.connect.data.xml.html.HTMLScript
connect.htmlelement.br=com.presence.connect.data.xml.html.HTMLNoEndTag
connect.htmlelement.empty=com.presence.connect.data.xml.html.HTMLResultSetEmpty
connect.htmlelement.notempty=com.presence.connect.data.xml.html.HTMLResultSetNotEmpty
connect.htmlelement.loop=com.presence.connect.data.xml.html.HTMLResultSetLoop
connect.htmlelement.br=com.presence.connect.data.xml.html.HTMLNoEndTag
connect.htmlelement.iresultset=com.presence.connect.data.xml.html.HTMLEmbeddedResultSet
connect.htmlelement.p=com.presence.connect.data.xml.html.HTMLNoEndTag
connect.xmllelement.connect=com.presence.connect.data.xml.html.HTMLConnect
connect.xmllelement.connectexclude=com.presence.connect.data.xml.html.HTMLConnectExclude
connect.xmllelement.resultset=com.presence.connect.data.xml.html.HTMLResultSet
connect.xmllelement.field=com.presence.connect.data.xml.html.HTMLField
connect.xmllelement.skip=com.presence.connect.data.xml.html.HTMLResultSetSkip
connect.xmllelement.empty=com.presence.connect.data.xml.html.HTMLResultSetEmpty
connect.xmllelement.notempty=com.presence.connect.data.xml.html.HTMLResultSetNotEmpty
connect.xmllelement.loop=com.presence.connect.data.xml.html.HTMLResultSetLoop
connect.xmllelement.iresultset=com.presence.connect.data.xml.html.HTMLEmbeddedResultSet
connect.sessioncacheconfig.memcachesize=1000
connect.sitecacheconfig.flushexpiredinterval=120
connect.sitecacheconfig.writeindexinterval=90
connect.sitecacheconfig.cachedir=./connect/cache/
connect.sitecacheconfig.memcachesize=1000
connect.sitecacheconfig.diskcachesize=50000
connect.threadpoolconfig.threadsperpool=10
connect.threadpoolconfig.totalthreads=200
connect.threadpoolconfig.threadfinishwaittime=40
connect.processableobjectfactory.text/html=com.presence.connect.data.xml.html.HTMLDocument
connect.processableobjectfactory.text/xml=com.presence.connect.data.xml.XMLDocument
connect.mimetype.default=com.presence.connect.data.BinaryMime
connect.mimetype.text/html=com.presence.connect.data.TextMime
connect.mimetype.text/xml=com.presence.connect.data.TextMime
connect.mimetype.image/gif=com.presence.connect.data.BinaryMime
connect.mimetype.image/jpeg=com.presence.connect.data.BinaryMime
defaultLibrary=Web Content
default.system-email=admin@server1.com
default.site=Site

resource.nonsecure.retrieveFromWebDir=true

resource.nonsecure.useCachedSourceUrl=true
resource.resourceServerModuleName=AJPERES
resourceserver.maxCacheObjectSize=10240
resourceserver.cacheExpiryDate="REL 1M"
filesystem.updateInterval=60
data.dir=ilwwcm/data
transfer.holdingPath=ilwwcm/system/holding
system.dir=ilwwcm/system
web.path=\${WCM_WEB_APP_HOME}
control.Content=com.aptrix.pluto.workflow.WorkflowControl,com.aptrix.pluto.taxonomy.ProfileControl
control.Style=
control.Template=
control.Taxonomy=
control.Category=
control.Site=
control.SiteArea=
control.Cmpnt=
deployment.itemDispatcherUrl=http://\${WCM_HOST}:\${WCM_PORT}/\${WCM_CONTEXT_ROOT}/connect/?MOD=ItemD
ispatcher
deployment.syndicatorUrl=http://\${WCM_HOST}:\${WCM_PORT}/\${WCM_CONTEXT_ROOT}/connect/?MOD=Synd
deployment.subscriberUrl=http://\${WCM_HOST}:\${WCM_PORT}/\${WCM_CONTEXT_ROOT}/connect/?MOD=Subs
deployment.itemChangedTaskDelay=30
deployment.subscriberOnly=false
deployment.recentSyndicatorErrorsSize=10
deployment.recentSyndicatorDocumentErrorsSize=100
deployment.recentSubscriberErrorsSize=10
deployment.recentSubscriberDocumentErrorsSize=100
wcm.servlet.url.prefix=http://\${WCM_HOST}:\${WCM_PORT}/\${WCM_CONTEXT_ROOT}/connect
wcm.secure.servlet.url.prefix=http://\${WCM_HOST}:\${WCM_PORT}/\${WCM_CONTEXT_ROOT}/myconnect
wcm.server.base.url=http://\${WCM_HOST}:\${WCM_PORT}
wcm.context.path=\${WCM_CONTEXT_ROOT}
wcm.servlet.path=/connect
wcm.authoringui.url=http://\${WCM_HOST}:\${WCM_PORT}/\${WCM_WPS_CONTEXT_ROOT}/\${WCM_WPS_PERSONA
LIZED_HOME}/wcmAuthoring
wcm.authoringui.relative.url=\${WCM_WPS_CONTEXT_ROOT}/\${WCM_WPS_PERSONALIZED_HOME}/wcmAuthoring
wcm.searchseed.context.path=\${WCM_SEARCHSEED_CONTEXT_ROOT}
renderer.disableRecursiveCmpntRefRefererListGen=false
renderer.disableRecursiveCmpntDetection=false
strategy_cache_jndi = services/cache/iwk/strategy
global_cache_jndi = services/cache/iwk/global
module_cache_jndi = services/cache/iwk/module
processing_cache_jndi = services/cache/iwk/processing
site_cache_jndi = services/cache/iwk/site
session_cache_jndi = services/cache/iwk/session
summary_cache_jndi = services/cache/iwk/summary
menu_cache_jndi = services/cache/iwk/menu
nav_cache_jndi = services/cache/iwk/nav
abs_path_cache_jndi = services/cache/iwk/abspath
abs_path_reverse_cache_jndi = services/cache/iwk/abspathreverse
Cache.checkKeySerializability = true
editors.richtext = [IBM ODC Rich Text:OdcEditor.jsp]
mimetype.list=extensiontype.gif,extensiontype.jpeg,extensiontype.jpe,extensiontype.jpg,extensiontype.jfif,extensiontype.p
ng,extensiontype.mp3,extensiontype.html,extensiontype.stm,extensiontype.htm,extensiontype.*,extensiontype.bin,extensi
ontype.class,extensiontype.exe,extensiontype.dms,extensiontype.lha,extensiontype.lzh
extensiontype.gif=image/gif
extensiontype.jpeg=image/jpeg
extensiontype.jpe=image/jpeg
extensiontype.jpg=image/jpeg
extensiontype.jfif=image/jpeg
extensiontype.png=image/png
extensiontype.mp3=audio/mpeg
extensiontype.html=text/html
extensiontype.stm=text/html
extensiontype.htm=text/html
extensiontype.*=application/octet-stream
extensiontype.bin=application/octet-stream
extensiontype.class=application/octet-stream
extensiontype.exe=application/octet-stream
extensiontype.dms=application/octet-stream
extensiontype.lha=application/octet-stream

extensiontype.lzh=application/octet-stream
enableThumbnailPreview=true
contentServiceCache.enable=true
summary.cache.enable = true
menu.cache.enable = true
menu.cache.max.items = 300
menu.cache.pages = 2
menu.cache.encyclopedia.cutoff = 25
absPath.cache.enabled = true
nav.cache.enable = true
eventLog.schema=\${WCM_SCHEMA}
wcm.authoringui.lock.taxonomies = false
wcm.authoringui.lock.categories = false
wcm.authoringui.lock.sites = false
wcm.authoringui.lock.siteareas = false
search.max.results = 1000
iterator.pagesize = 250

Following is the sample cachespec.xml that has been used in the scenario.

```
<?xml version="1.0" ?>  
<!DOCTYPE cache SYSTEM "i:\ibm\websphere\appserver\properties\cachespec.dtd">  
<cache>  
<cache-entry>  
<class>servlet</class>  
<name>com.presence.connect.ConnectServlet.class</name>  
<property name="store-cookies">>false</property>  
<property name="save-attributes">>true</property>  
<property name="consume-subfragments">>true</property>  
<cache-id>  
<component id="CACHEID" type="parameter" >  
<required>>true</required>  
</component>  
<component id="" type="servletpath" >  
<required>>false</required>  
<value>/connect</value>  
</component>  
<timeout>10000</timeout>  
</cache-id>  
<cache-id>  
<component id="" type="pathinfo">  
<required>>true</required>  
</component>  
<component id="cmpntid" type="parameter">  
<required>>false</required>  
</component>  
<component id="version" type="parameter">  
<required>>false</required>  
</component>  
<timeout>30000</timeout>  
</cache-id>  
<cache-id>  
<component id="MOD" type="parameter">  
<required>>true</required>  
<not-value>Subs</not-value>  
<not-value>Synd</not-value>  
<not-value>ItemDispatcher</not-value>  
<not-value>Syndication</not-value>  
<not-value>MemberFixer</not-value>  
<not-value>VersioningEnablement</not-value>  
<not-value>WorkflowEnablement</not-value>  
<not-value>PlutoUploadFile</not-value>  
<not-value>PlutoDownloadFile</not-value>  
<not-value>AJPECatSelect</not-value>  
<not-value>Template</not-value>  
</component>  
<timeout>14400</timeout>  
</cache-id>
```

</cache-entry>
</cache>

After implementing caching on **Portal A**, install remote rendering portlet on **Portal B** and configure it to use content from the remote WCM authoring server connect using credential vault entry. Sample remote rendering configuration.

Ok Cancel Apply Reset Help

Edit preferences

Content

Content Item Component Element

Content:
/Remote Library/newsSite/newsSiteArea/crudeoil

Alternate Presentation Template:
None

Menu Override Settings

Categories:
None

Site Areas:
None

Links

Broadcast Links To:
 None This page Another page

Select a target portal page
Home

Receive Links From:
 None This portlet Other portlets and this portlet

Credential

Use LTPA Use Credential Vault Slot

Credential Vault Slot Name:

Settings

Web Content Management Server Host:

Web Content Management Context Path:

Web Content Management Servlet Path:

Web Content Management Authenticated Servlet Path:

Fully qualify URLs generated by Web Content Management Server:

Portlet Display Title (Optional):

Ok Cancel Apply Help

Remote Rendering portlet showing the selected content.

The screenshot shows a Microsoft Internet Explorer browser window displaying the IBM WebSphere Portal. The address bar shows a URL starting with http://192.168.2.204:10038/wps/myportal/. The browser's navigation bar includes buttons for Back, Forward, Stop, and Refresh, along with a search field and a Favorites icon. Below the browser window, the portal's navigation bar is visible, with tabs for Welcome, Getting Started, My Page, and Remote Rendering. The main content area displays a portlet titled "Remote Web Content Viewer". The portlet content includes a news item with the headline "Crude Oil Prices Sear Near \$60 a Barrel" and a sub-headline "Mon 1:38PM EDT". The main text of the news item reads: "With oil prices marching to new heights of close to \$60 a barrel, the president of OPEC said Monday the group will consider raising its output ceiling by half a million barrels as early as this week." Below the text, there is a section for an "Associated image:" which displays a thumbnail for "WebSphere Application Server V6.0" with a "Download now and get started today." link. At the bottom of the page, there is a navigation bar with links for Home, Administration, Documents, Messaging, and Site Map.

Make changes to the content change the color of the text.

The screenshot shows a WYSIWYG editor interface for editing a news item. The editor has a title bar "News Body" and a toolbar with various editing tools such as Bold, Italic, Underline, Text Color, Background Color, Bulleted List, Numbered List, Indent, Outdent, Undo, and Redo. Below the toolbar, the text of the news item is displayed in red: "Mon 1:38PM EDT" and "With oil prices marching to new heights of close to \$60 a barrel, the president of OPEC said Monday the group will consider raising its output ceiling by half a million barrels as early as this week." Below the text area, there is a section for "News Image" which includes an "Image:" label, a text input field containing "Surprise.bmp", and a "Delete" button. Below this, there is a section for "Upload an image file:" with a text input field and a "Browse..." button.

Confirm changes on the Local rendering portlet at the authoring server and you will see the changes.

But there are no changes on the remote rendering portlet

Now make a **jsp component** on the WCM authoring server with the following JSP file.

```
<%@ page import="java.util.*,
                                java.lang.*,
                                java.io.*,
                                java.net.URLDecoder,
                                java.net.URLEncoder,
                                javax.naming.InitialContext,
                                com.ibm.websphere.cache.DistributedMap,
                                com.ibm.websphere.cache.DynamicCacheAccessor"%>

<%!
String s_defaultCache = "Servlet Cache";

List s_registeredCacheNames = null;

List getRegisteredCacheNames()
{
    if (s_registeredCacheNames == null)
```

```

        {
            // Public Caches
            s_registeredCacheNames = new ArrayList();
            s_registeredCacheNames.add("WCM Advanced Cache");
            s_registeredCacheNames.add("WCM Session Cache");
        }

        return s_registeredCacheNames;
    }

    Map s_registeredCaches = null;

    Map getRegisteredCaches()
    {
        if (s_registeredCaches == null)
        {
            s_registeredCaches = new HashMap();
            // Public Caches
            s_registeredCaches.put("WCM Advanced Cache", "services/cache/iwk/processing");
            s_registeredCaches.put("WCM Session Cache", "services/cache/iwk/session");
        }

        return s_registeredCaches;
    }
}
%>
<%
response.getWriter().println("<h1>Dynacache Viewer</h1>");

// Get selected cache
String selectedCacheEnc;
String selectedCache = request.getParameter("cache");
if (selectedCache == null)
{
    selectedCache = s_defaultCache;
}
selectedCacheEnc = URLEncoder.encode(selectedCache);

// Display Cache Selection List
printCacheSelectionList(selectedCache, response);

// Retrieve Chosen Cache
DistributedMap map = getCache((String)getRegisteredCaches().get(selectedCache));

// Handle flushCache Command
boolean flushCache = new Boolean(request.getParameter("flushCache")).booleanValue();
if ((flushCache) && (map != null))
{
    map.clear();
    response.getWriter().println("<br>INFO: Cache flushed<br>");
}

// Handle RemoveEntry Command
String removeEntry = request.getParameter("removeEntry");
if ((removeEntry != null) && (map != null))
{
    map.invalidate(removeEntry);
    response.getWriter().println("<br>INFO: Removed Entry [" + removeEntry + "]<br>");
}

if ((map != null) && (!map.isEmpty()))
{
    Set cacheKeys = map.keySet();
    Iterator cacheKeyIterator = cacheKeys.iterator();
    response.getWriter().println("<table border=1><tr><td><b>" + selectedCache + " Entries</b></td></tr>");
    while (cacheKeyIterator.hasNext())
    {
        String currentKey = cacheKeyIterator.next().toString();
        response.getWriter().println("<tr><td>" + currentKey + "</td><td><a href=?cache=" +
selectedCacheEnc + "&removeEntry=" + URLEncoder.encode(currentKey) + ">Remove</a></td></tr>");
    }
}

```

```

response.getWriter().println("<br></table>");

response.getWriter().println("<br>Total Items=" + cacheKeys.size());
response.getWriter().println("<a href=?cache=" + selectedCacheEnc + ">Refresh</a>");
response.getWriter().println("<a href=?cache=" + selectedCacheEnc + "&flushCache=true>Flush Cache</a>");
}
else
{
response.getWriter().println("<br><i>Cache is empty</i>");
response.getWriter().println("<br><br><a href=?cache=" + selectedCacheEnc + ">Refresh</a>");
}
}
%>
<%!

```

```

DistributedMap getCache(String cacheKey)

```

```

{
    DistributedMap cache = null;
    if (cacheKey != null)
    {
        InitialContext initialContext = null;
        try
        {
            initialContext = new InitialContext();
            cache = (DistributedMap) initialContext.lookup(cacheKey);
        }
        catch (Exception e)
        {
            // Do Nothing
        }
        finally
        {
            if (initialContext != null)
            {
                try
                {
                    initialContext.close();
                }
                catch (Exception e2)
                {
                    // Do Nothing
                }
            }
        }
    }

    return cache;
}

```

```

void printCacheSelectionList(String selectedCache, HttpServletResponse response)
throws IOException

```

```

{
    response.getWriter().println("<form name=\"CacheSelectionForm\">Selected Cache: <select
name=\"cache\">");
    Iterator registeredCacheNameIterator = getRegisteredCacheNames().iterator();
    while (registeredCacheNameIterator.hasNext())
    {
        String currentCacheName = registeredCacheNameIterator.next().toString();
        response.getWriter().println("<option>");
        if (currentCacheName.equalsIgnoreCase(selectedCache))
        {
            response.getWriter().println(" SELECTED");
        }
        response.getWriter().println("value=\"" + currentCacheName + "\">" + currentCacheName);
        response.getWriter().println("</option>");
    }
    response.getWriter().println("</select>&nbsp;&nbsp;<input type=submit value=Update></form>");
}

```

%>

Create a new page under home named WCM Cache Viewer page , place a local rendering portlet and select your just created jsp component. It will look like the following after selecting WCM Advanced Cache and press **update** it will show the cached entries in advanced WCM cache.

Cache Viewer

Dynacache Viewer

Selected Cache: **WCM Advanced Cache**

WCM Advanced Cache Entries	
[PROCESSED:http://192.168.2.203:10038/wps/wcm/myconnect/Remote%20Library/newsSite/newsSiteArea/crudeoil?WCMUrlPrefix=@WCMFullyQualifyURLs=true]	Remove
{MOD=AJPERS, REQUESTURI=http://192.168.2.203:10038/wps/wcm/myconnect/1df837804540b3d088a8af35403353de/MGMgrand.jpg}	Remove
{MOD=AJPERS, REQUESTURI=http://192.168.2.203:10038/wps/wcm/myconnect/08046a004540b40488caaf35403353de/tigerWood.jpg}	Remove
{MOD=AJPERS, REQUESTURI=http://192.168.2.203:10038/wps/wcm/myconnect/c4056b004540b3eb88bbaf35403353de/Eagles.jpg}	Remove
[PROCESSED:http://portal.ibm.com:10038/wps/wcm/myconnect/Remote Library/newsSite/Cache Viewer Site Area?cmpntid=385e60045471c1c8942af35403353de&source=library&SRV=cmpnt]	Remove
[08046a004540b40488caaf35403353de]	Remove
[3b065e0045479e3fb0b9fe3f9ba6f7d8]	Remove
[1df837804540b3d088a8af35403353de]	Remove
{MOD=AJPERS, REQUESTURI=http://192.168.2.203:10038/wps/wcm/myconnect/3b065e0045479e3fb0b9fe3f9ba6f7d8/Surprise.bmp}	Remove
[c4056b004540b3eb88bbaf35403353de]	Remove

Total Items=10 [Refresh](#) [Flush Cache](#)

Now press the link **Flush Cache** all the cached contents will wipe except for one or two but still you wouldn't see changes on the remote rendering.

Cache Viewer

Dynacache Viewer

Selected Cache: **WCM Advanced Cache**

WCM Advanced Cache Entries	
[PROCESSED:http://portal.ibm.com:10038/wps/wcm/myconnect/Remote Library/newsSite/Cache Viewer Site Area?cmpntid=385e60045471c1c8942af35403353de&cache=WCM Advanced Cache&flushCache=true&source=library&SRV=cmpnt]	Remove

Total Items=1 [Refresh](#) [Flush Cache](#)

Remote rendering still unchanged.

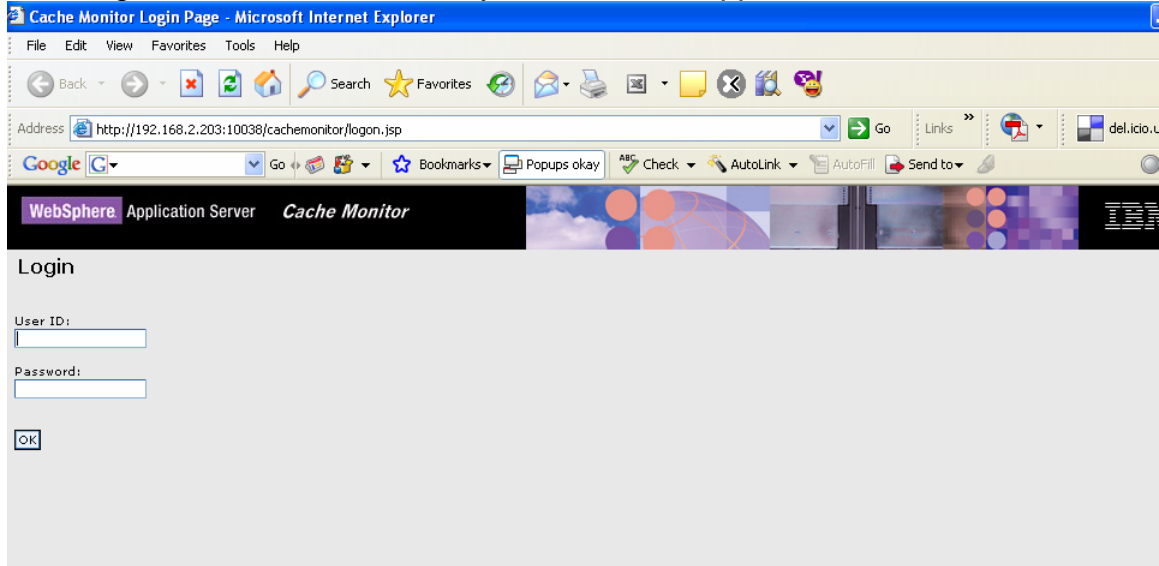
Remote Web Content Viewer

Crude Oil Prices Soar Near \$60 a Barrel
Max 1:38PM EDT
With oil prices marching to new heights of close to \$60 a barrel, the president of OPEC said Monday the group will consider raising its output ceiling by half a million barrels as early as this week.

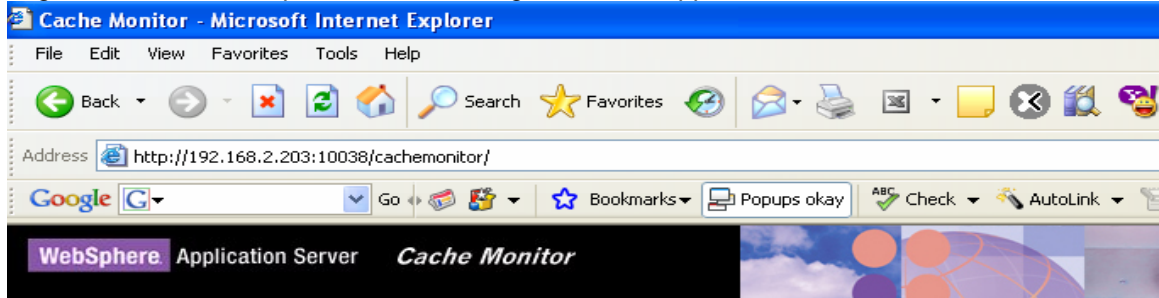
Associated image:

Download now and get started today.

Because cached content is still in WAS cache. There is enterprise application available by the name of cache monitor within the installable apps of WAS so install this application and the following screen could be seen If you access the application.



Login with WAS id and password. Following screen will appear.



Cache instance

Refresh Instances

baseCache

- [Cache Statistics](#)
- [Edge Statistics](#)
- [Cache Contents](#)
- [Dependency IDs](#)
- [Disk Offload](#)
- [Cache Policies](#)

Cache Statistics

Statistic	Value
Cache Size	2000
Used Entries	11
Cache Hits	30
Cache Misses	17
LRU Evictions	0
Explicit Removals	6
Default Priority	1
Servlet Caching Enabled	Yes
Disk Offload Enabled	No

IBM WebSphere Portal - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Refresh Home Search Favorites Print Mail Stop

Address http://192.168.2.204:10038/wps/myportal/tut/p/c1/04_588k8xLLM9M5SpPy8x8z9CP0os_JAE8Dd293QwMLN0cDayMzT7Ng10K3IwN31688pFm8n79RqJujp6GhhZmrIVDew6TJ3wyc Go Links

Google Go Bookmarks 167 blocked Check AutoLink AutoFill Send to


Launch Home > Remote Rendering > Search: All Sources

Welcome Getting Started My Page Remote Rendering

Remote Web Content Viewer

Crude Oil Prices Soar Near \$60 a Barrel
Mon 1:38PM EDT
With oil prices marching to new heights of close to \$60 a barrel, the president of OPEC said Monday the group will consider raising its output ceiling by half a million barrels as early as this week.

Associated image:



Download now and get started today. >

Home Administration Documents Messaging Site Map

Royal Cyber Inc
<http://www.websphereportalguru.com>



© Copyright IBM Corporation 2010
IBM Global Services
Route 100
Somers, NY 10589
U.S.A.
Produced in the United States of America
08-10
All Rights Reserved

IBM, the IBM logo, ibm.com, Lotus®, Rational®, Tivoli®, DB2® and WebSphere® are trademarks or registered trademarks of International Business Machines Corporation in the United States, other countries, or both. If these and other IBM trademarked terms are marked on their first occurrence in this information with a trademark symbol (® or ™), these symbols indicate U.S. registered or common law trademarks owned by IBM at the time this information was published. Such trademarks may also be registered or common law trademarks in other countries. A current list of IBM trademarks is available on the Web at "Copyright and trademark information" at ibm.com/legal/copytrade.shtml Other company, product and service names may be trademarks or service marks of others. The information contained in this documentation is provided for informational purposes only. While efforts were made to verify the completeness and accuracy of the information contained in this documentation, it is provided "as is" without warranty of any kind, express or implied. In addition, this information is based on IBM's current product plans and strategy, which are subject to change by IBM without notice. IBM shall not be responsible for any damages arising out of the use of, or otherwise related to, this documentation or any other documentation. Nothing contained in this documentation is intended to, nor shall have the effect of, creating any warranties or representations from IBM (or its suppliers or licensors), or altering the terms and conditions of the applicable license agreement governing the use of IBM software. This document illustrates how one organization uses IBM products. Many factors have contributed to the results and benefits described; IBM does not guarantee comparable results elsewhere.