

## [DocV1.Monitor the state of the deployed eXo Platform services through the JMX console](#)

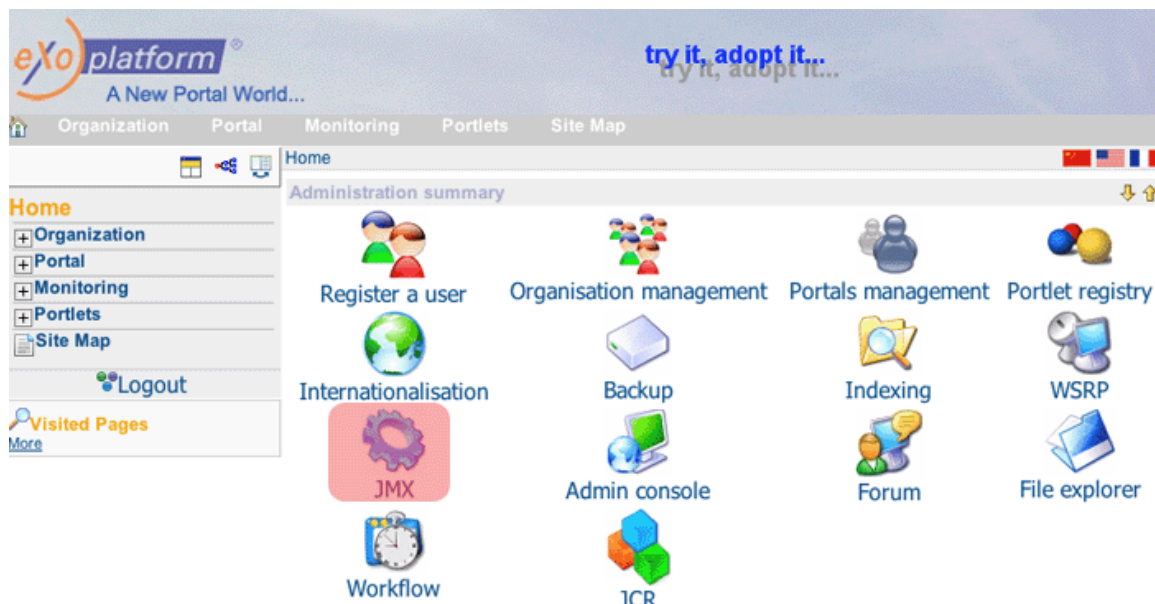
### **Monitor the state of the deployed eXo Platform services through the JMX console**

Every eXo Platform service that is loaded in the eXo Platform service container is wrapped in a MBean object which is JMX defined object that is registered in an MBean server. That allows to provide a remote management tool through adapters.

The JMX portlet allows the admin to monitor the states of any deployed object using the JMX API to execute the MBean methods.

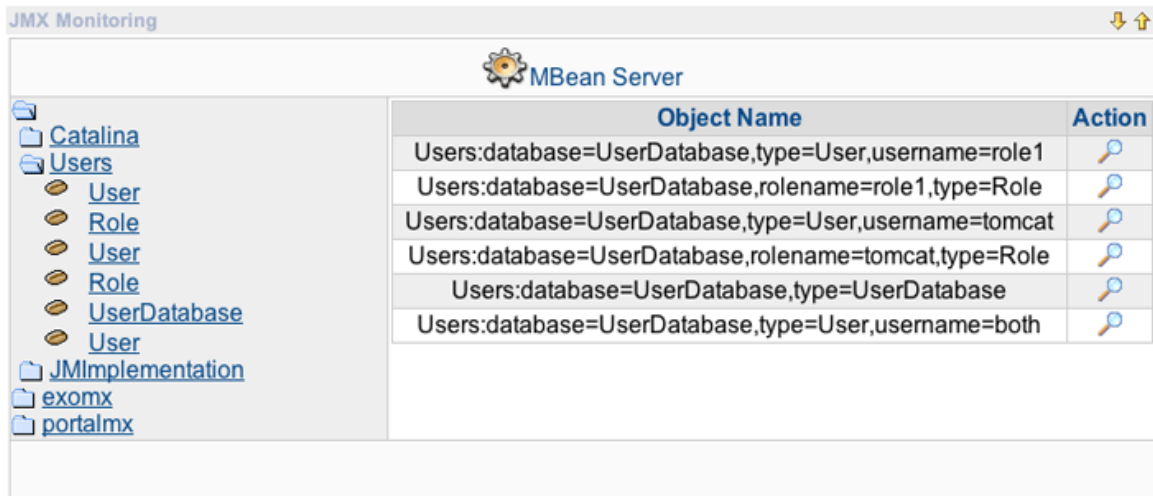
The portlet also prints the returned object graph to offer an accurate snapshot of the service state.

The JMX portlet can be reached from the admin home page as shown in the next screenshot:



The JMX console is built like a file explorer where you have in a left column all the MBean Servers: exomx, portalmx, and catalina (tomcat) related MBean

Monitor the state of the deployed eXo Platform services through the JMX console server as shown in the next screen.



Indeed you have to remember that to manage multi portal instances, eXo Platform creates a service container hierarchy where the shared service are stored in the root container and each service associated with a dedicated portal is stored in a subcontainer. In the previous screenshot only one portal instance is deployed and the exomx container is the MBean server associated with the root service container while the portalmx MBean server is associated with the portal service container which is a child of the root container.

As the portal is deployed in tomcat in that example you can also monitor the MBean objects deployed in tomcat.

So let's try to get the state of an eXo Platform service located in the portalmx MBean server.

The next screen shot displays several informations on the object itself and the methods you can execute.

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Monitor the state of the deployed eXo Platform services through the JMX console

JMX Monitoring

MBean Server

MBean

Type	org.exoplatform.container.jmx.ExoContainerMBean
Description	Dynamic mbean wrapper for instance : org.exoplatform.services.cache.impl.SimpleCacheService@f289ee
Dependencies	
Method name: start	<a href="#">execute</a>
Parameter: :	
Return type: void	
Method name: stop	<a href="#">execute</a>
Parameter: :	
Return type: void	
Method name: getCacheInstance	<a href="#">execute</a>
Parameter: : • - java.lang.String	
Return type: org.exoplatform.services.cache.ExoCache	
Method name: getAllCacheInstances	<a href="#">execute</a>
Parameter: :	
Return type: java.util.Collection	

We will execute the `getAllCacheInstances()` which returns `java.util.Collection`.

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**JMX Monitoring**

**MBean Server**

**Operation::getAllCacheInstances**

Description	getAllCacheInstances
Return type:	java.util.Collection

[execute](#) [cancel](#)

```

object: SimpleExoCache
DEFAULT_MAX_SIZE: 100
name_: org.exoplatform.services.resources.impl.ResourceBu...

maxSize_: 1000
cacheHit_: 2
cacheMiss_: 8
object: SimpleExoCache
DEFAULT_MAX_SIZE: 100
name_: org.exoplatform.services.portal.log.impl.SessionLo...

maxSize_: 1000
cacheHit_: 0
cacheMiss_: 0
object: SimpleExoCache
DEFAULT_MAX_SIZE: 100
name_: org.exoplatform.services.config.impl.Configuration...

maxSize_: 1000
cacheHit_: 0
cacheMiss_: 2
object: SimpleExoCache
DEFAULT_MAX_SIZE: 100
name_: org.exoplatform.services.portal.model.PortalConfig
maxSize_: 1000
cacheHit_: 6
cacheMiss_: 2
object: SimpleExoCache
DEFAULT_MAX_SIZE: 100
name_: org.exoplatform.services.resources.impl.ResourceBu...

maxSize_: 100
cacheHit_: 136
cacheMiss_: 11
    
```

There we print in the portlet the graph of objects the collection contains.

Such a process can be done for any service implementation that is deployed in eXo Platform.

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