

# Инструкция по настройке JMS-relay к IBM WebSphere MQ 8.0 через Oracle WebLogic 12.2.1

## Сокращения

MQ - IBM WebSphere MQ

WLS - Oracle Weblogic

## Примечания

В качестве хоста для IBM Websphere MQ в данной инструкции используется Linux Mint

Все команды должны быть выполнены под пользователем, владеющим соответствующими правами на администрирование MQ

В текущей инструкции команды выполняются под суперпользователем (root), войдя в него через

```
sudo su
```

Либо можно выполнять команды через sudo

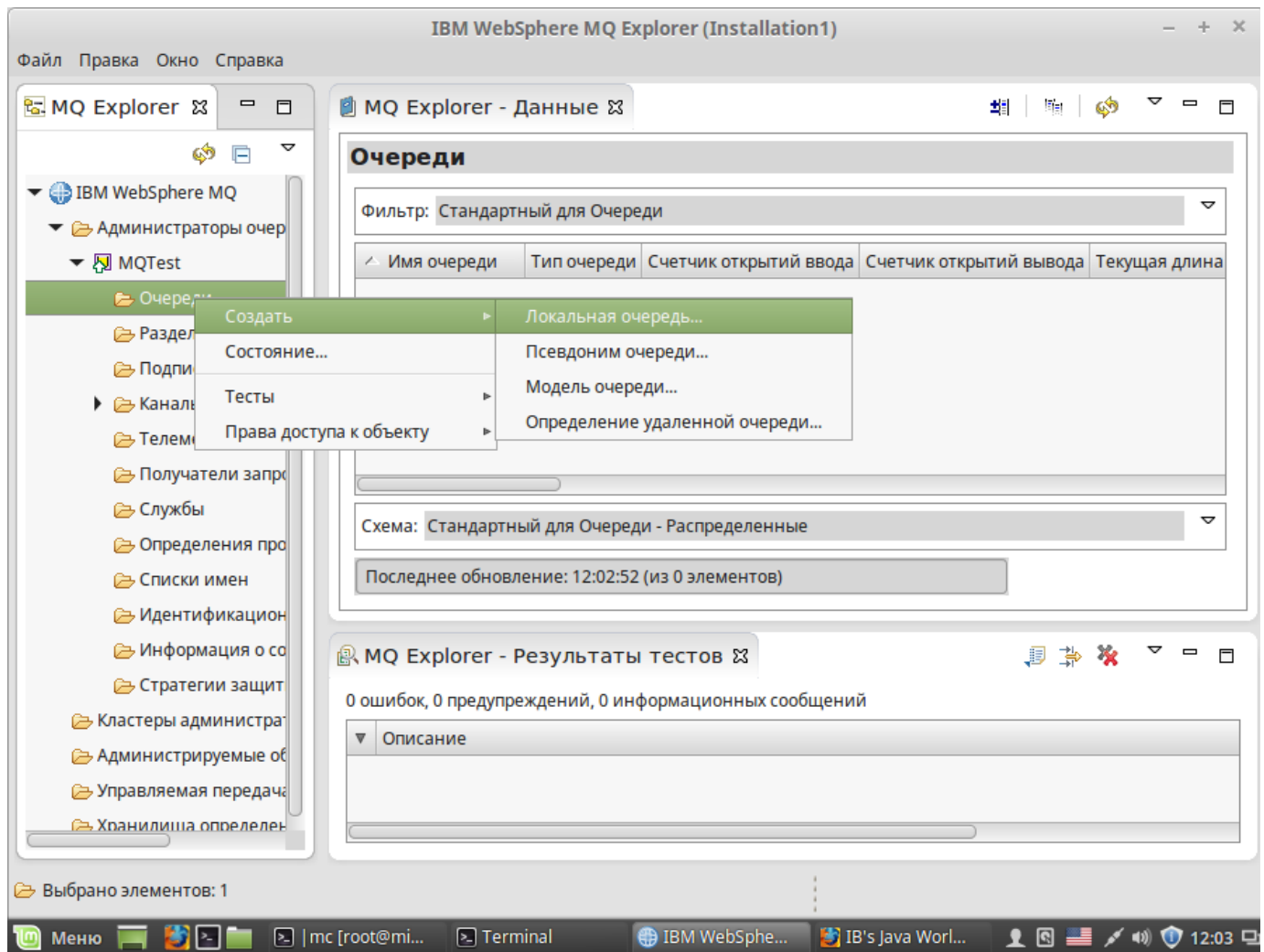
## Используемые ссылки

[http://www.ibm.com/developerworks/websphere/library/techarticles/0604\\_kesavan/0604\\_kesavan.html](http://www.ibm.com/developerworks/websphere/library/techarticles/0604_kesavan/0604_kesavan.html)  
<http://www.techpaste.com/2012/08/integrate-websphere-mq-weblogic-server/>  
<http://middlewaretimes.blogspot.ru/2014/06/how-to-configure-weblogic-server-with.html>  
<https://www.captchconsulting.com/blogs/oracle-weblogic-103-and-ibm-mq---can-they-play-nicely>  
<http://ibswings.blogspot.ru/2008/02/integrating-mq-broker-6-with-bea.html>  
[https://blogs.oracle.com/soaproactive/entry/jms\\_step\\_2\\_using\\_the](https://blogs.oracle.com/soaproactive/entry/jms_step_2_using_the)  
<https://dzone.com/articles/solving-ibm-mq-client-error-%E2%80%9393>  
[http://www.ibm.com/support/knowledgecenter/SSFKSJ\\_8.0.0/com.ibm.mq.mig.doc/q001110\\_.htm](http://www.ibm.com/support/knowledgecenter/SSFKSJ_8.0.0/com.ibm.mq.mig.doc/q001110_.htm)  
[http://www.ibm.com/support/knowledgecenter/SSFKSJ\\_8.0.0/com.ibm.mq.ref.adm.doc/q083460\\_.htm](http://www.ibm.com/support/knowledgecenter/SSFKSJ_8.0.0/com.ibm.mq.ref.adm.doc/q083460_.htm)  
[http://www.ibm.com/support/knowledgecenter/SSFKSJ\\_8.0.0/com.ibm.mq.ins.doc/q008640\\_.htm](http://www.ibm.com/support/knowledgecenter/SSFKSJ_8.0.0/com.ibm.mq.ins.doc/q008640_.htm)  
<http://www-01.ibm.com/support/docview.wss?uid=swg21166937>  
[http://www.ibm.com/developerworks/websphere/techjournal/0502\\_woolf/0502\\_woolf.html#sec3-1](http://www.ibm.com/developerworks/websphere/techjournal/0502_woolf/0502_woolf.html#sec3-1)  
[http://www.ibm.com/support/knowledgecenter/SSFKSJ\\_8.0.0/com.ibm.mq.sec.doc/q010530\\_.htm](http://www.ibm.com/support/knowledgecenter/SSFKSJ_8.0.0/com.ibm.mq.sec.doc/q010530_.htm)  
<https://www.ibm.com/developerworks/community/forums/html/topic?id=35d58148-5c89-49e3-a61c-4f53944fa11e>  
<http://www.trevoroconnell.com/2012/01/basic-send-message-to-mq-with-java-and.html>  
<https://www-01.ibm.com/support/docview.wss?uid=swg27048082&aid=1>  
<http://stackoverflow.com/questions/30501666/web-sphere-7-5-add-user>  
[http://www.ibm.com/support/knowledgecenter/SSFKSJ\\_7.5.0/com.ibm.mq.mig.doc/q001110\\_.htm](http://www.ibm.com/support/knowledgecenter/SSFKSJ_7.5.0/com.ibm.mq.mig.doc/q001110_.htm)  
<http://stackoverflow.com/questions/25911557/websphere-mq-v8-mqrc-not-authorized-2035>  
[http://www.ibm.com/support/knowledgecenter/SSRS7Z\\_8.5.0/com.ibm.administeringcm.doc/bpmi0030.htm](http://www.ibm.com/support/knowledgecenter/SSRS7Z_8.5.0/com.ibm.administeringcm.doc/bpmi0030.htm)  
[http://www.ibm.com/support/knowledgecenter/SSFKSJ\\_7.5.0/com.ibm.mq.dev.doc/q120070\\_.htm](http://www.ibm.com/support/knowledgecenter/SSFKSJ_7.5.0/com.ibm.mq.dev.doc/q120070_.htm)

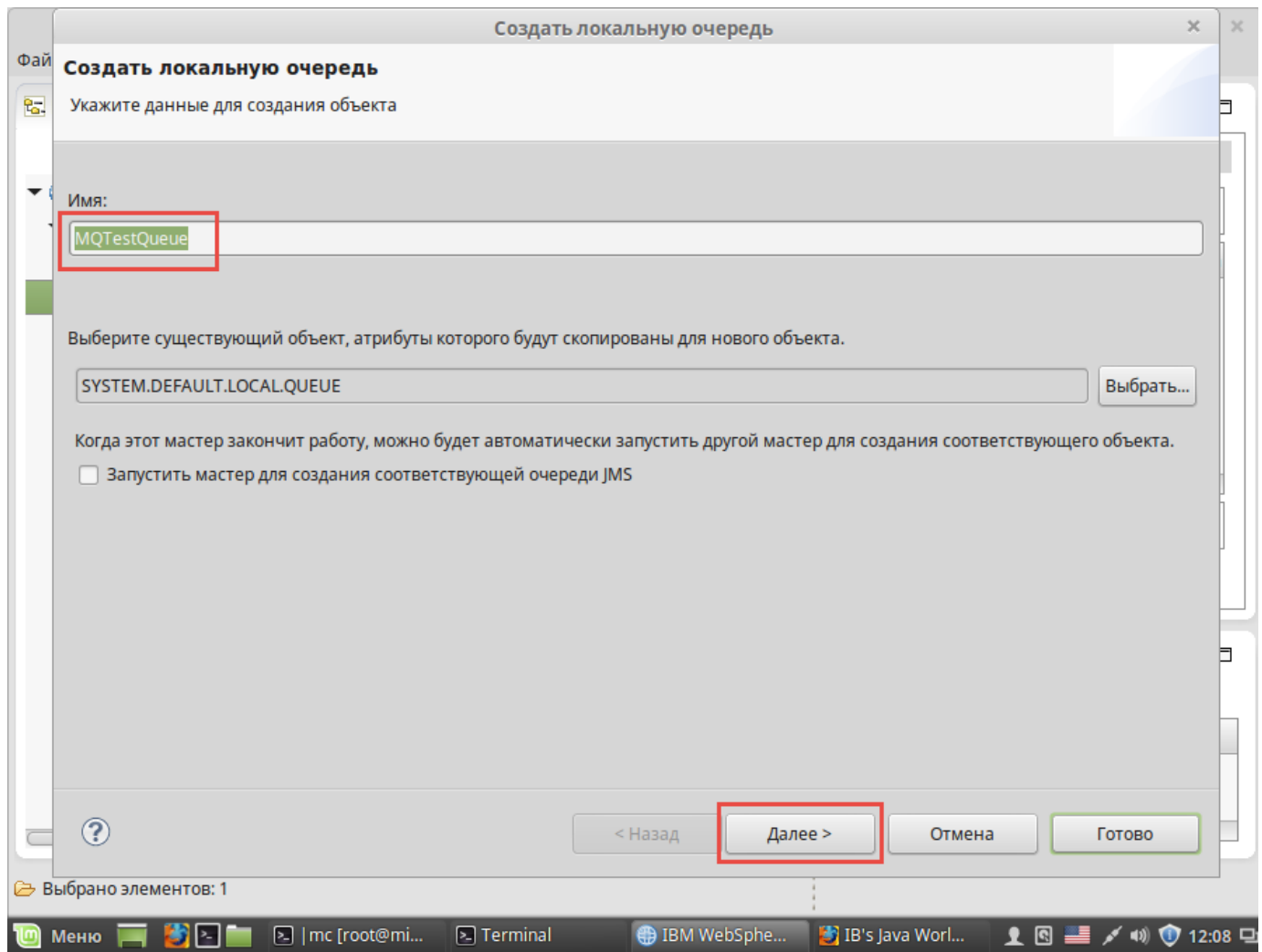
## Настройка IBM WebSphere MQ

### 1. Создание новой очереди через MQ Explorer

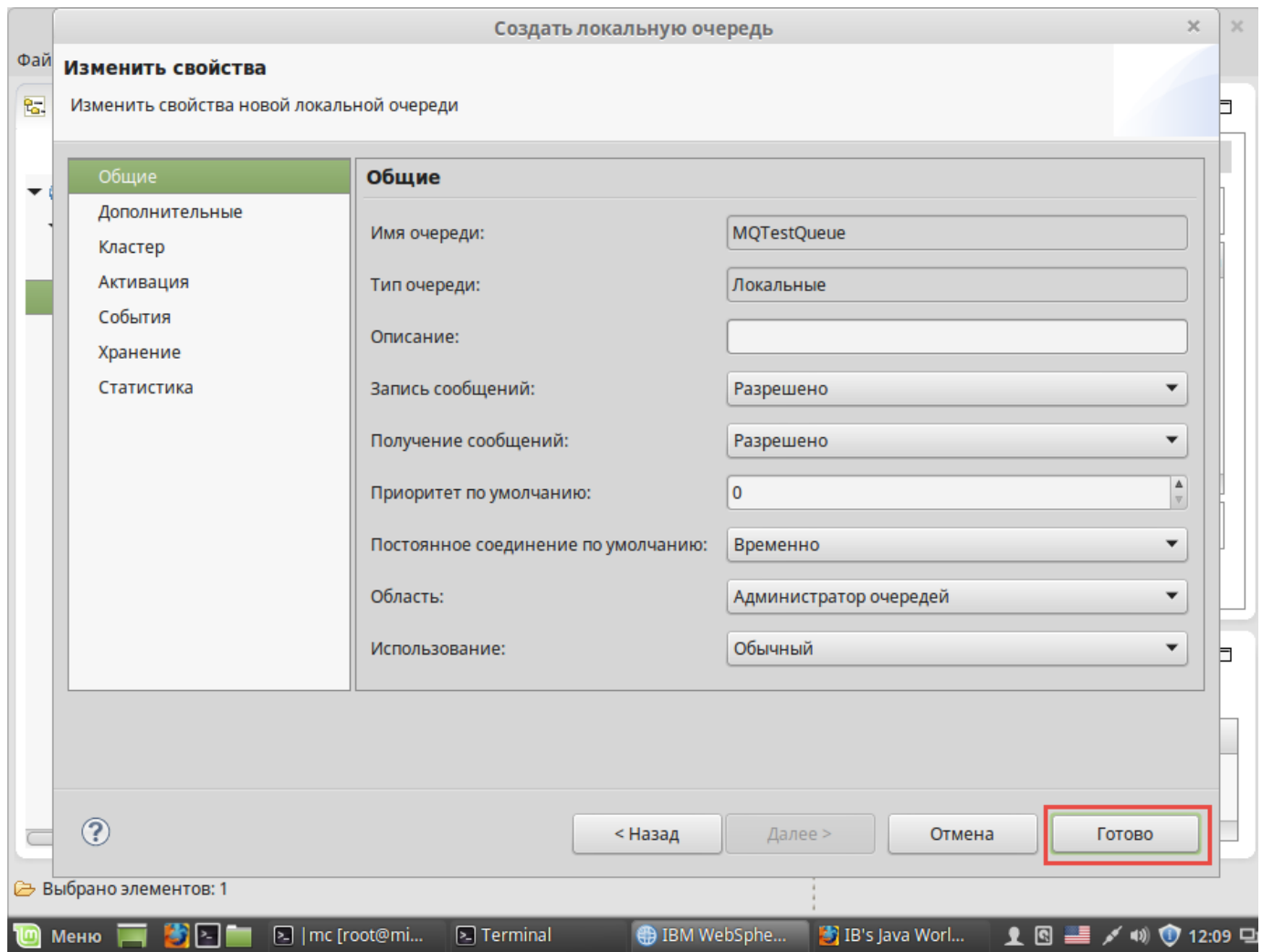
Выбрать в существующем Queue Manager (Администратор Очереди - например MQTest) Очередь -> Создать -> Локальная очередь



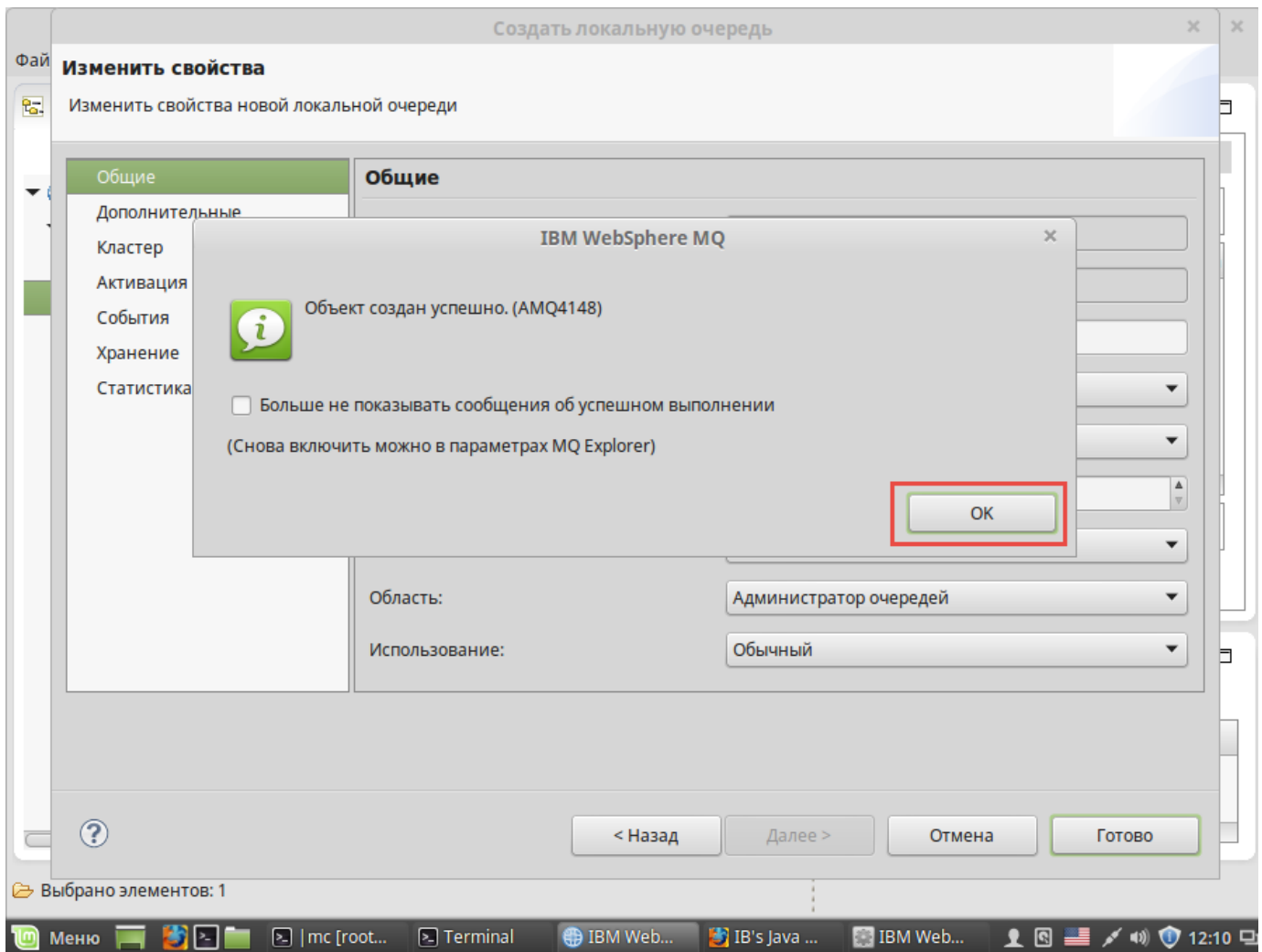
Ввести название очереди (например MQTestQueue). Нажать Далее

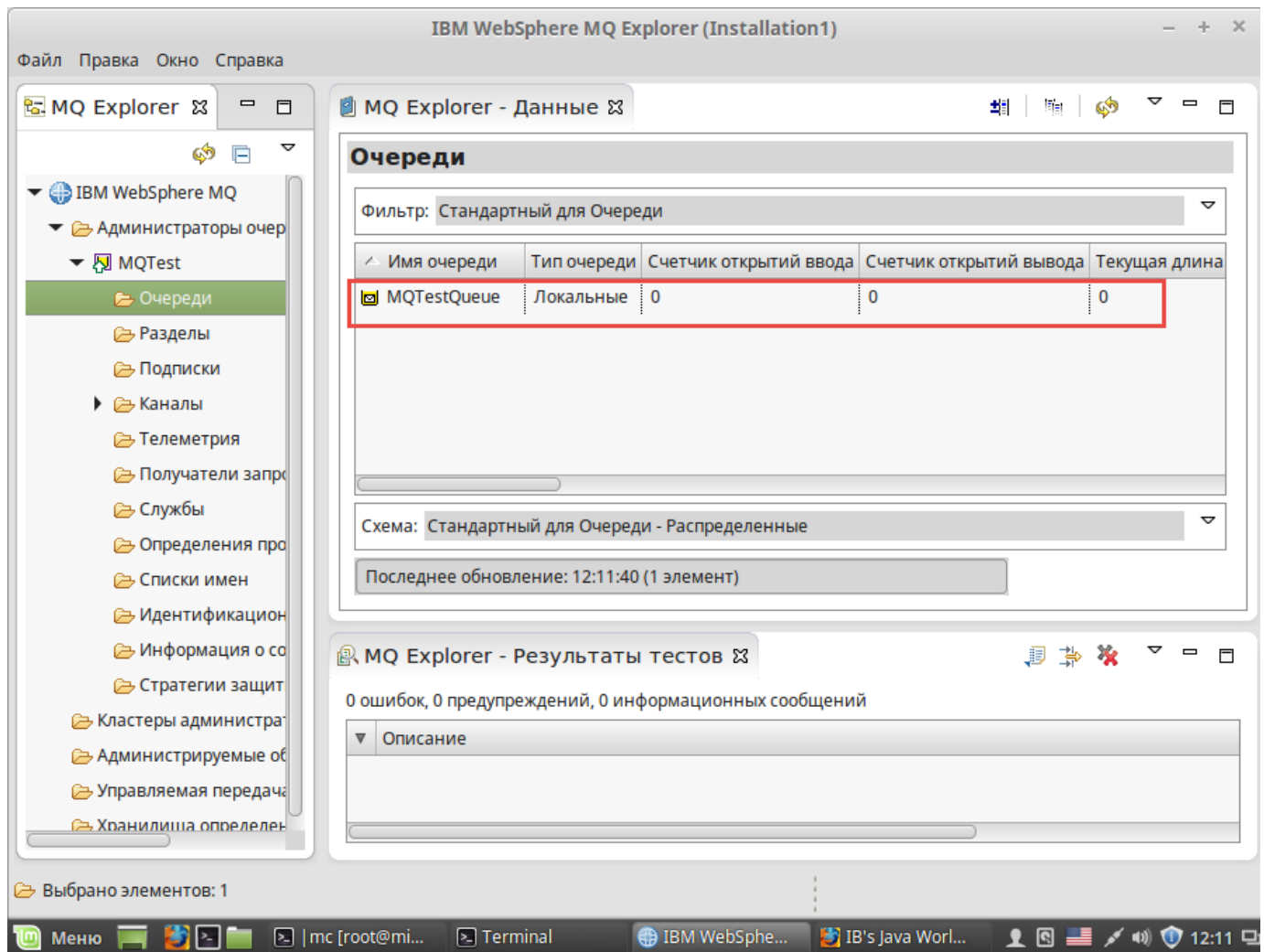


Нажать Готово



Нажать ОК





## 2. Создание файлового JNDI-контекста

В домашнем каталоге (например /home/mint) создать папку MQ-JNDI и в ней создать файл mq-jndi.properties со следующим содержанием:

```
INITIAL_CONTEXT_FACTORY=com.sun.jndi.fscontext.RefFSContextFactory
PROVIDER_URL=file:/home/mint/MQ-JNDI
SECURITY_AUTHENTICATION=none
```

Выполнить команду:

```
/opt/mqm/java/bin/JMSAdmin -cfg /home/mint/MQ-JNDI/mq-jndi.properties
```

Появится командная строка

```
InitCtx>
```

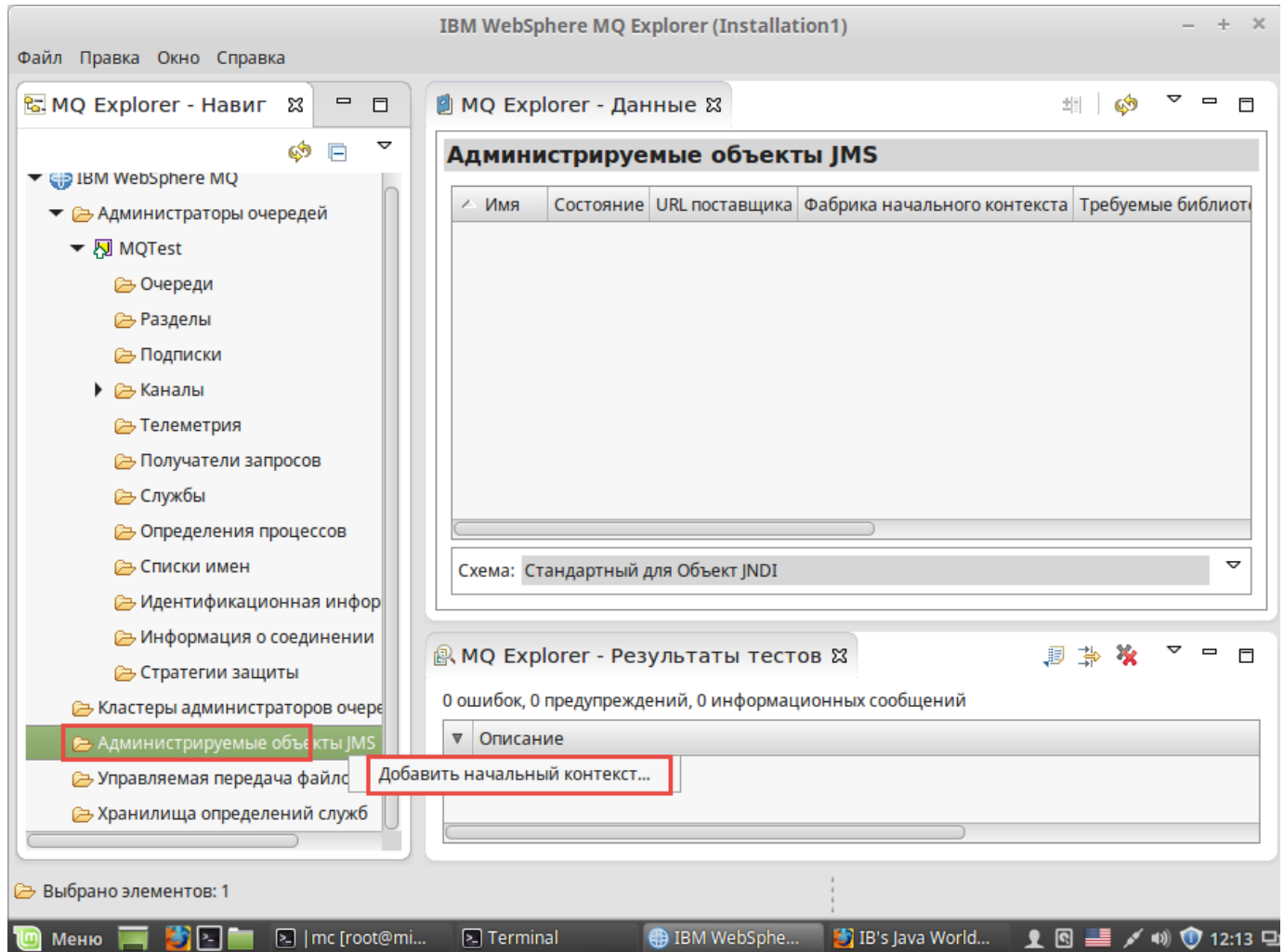
Ввести в неё следующие команды

```
def xaqcf(MQTestQCF) qmgr(MQTest) HOST(mint) PORT(1414) TRANSPORT(CLIENT)
CHANNEL(HPT5.CLNT.WL)
def q(MQTestQueue) qmgr(MQTest) queue(MQTestQueue)
end
```

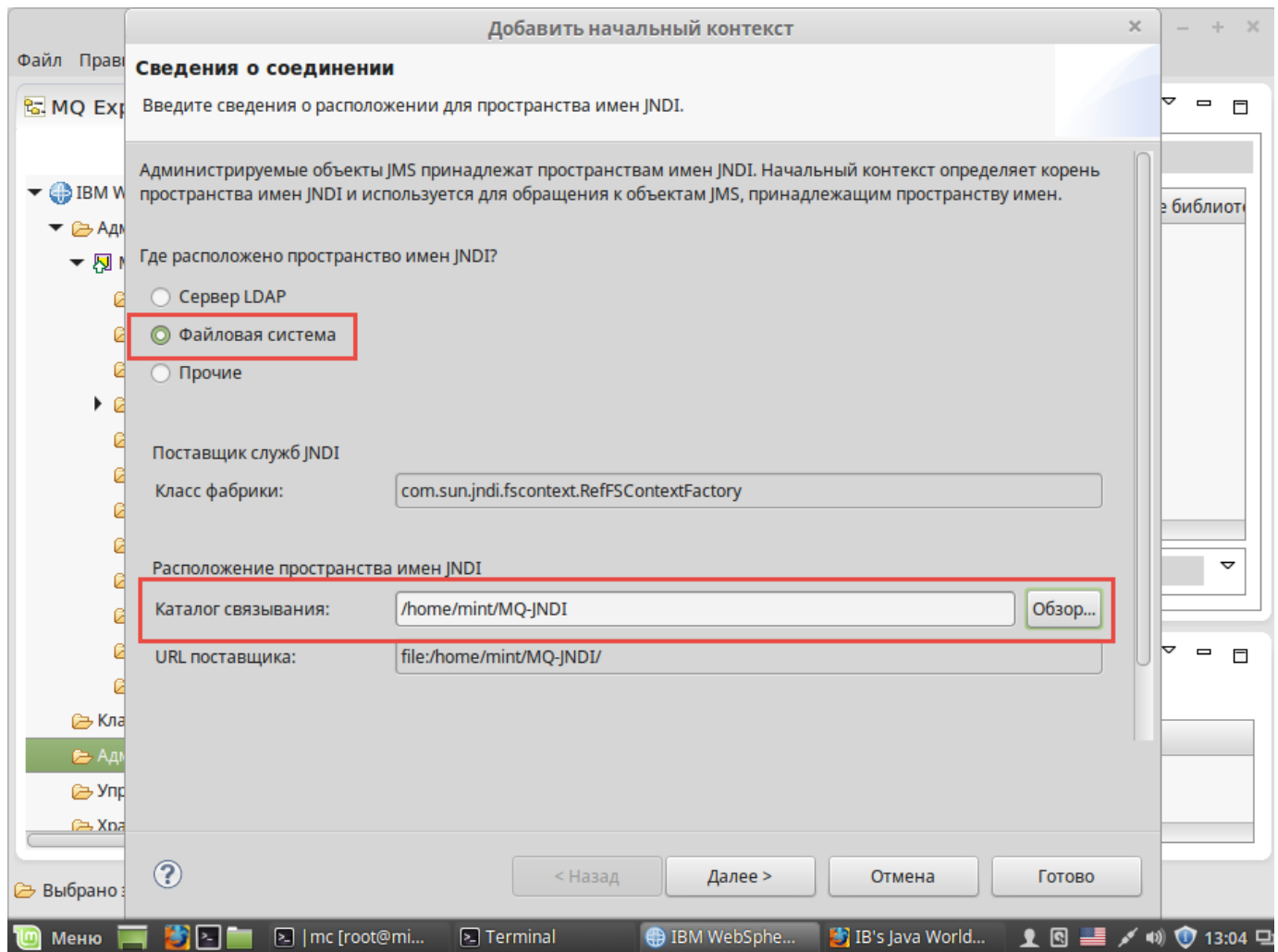
Здесь важно отметить, что HOST (mint) должен резолвиться по одному и тому же имени как на сервере MQ, так и на сервере WLS, иначе потребуются делать соответствующие изменения в файле .bindings при переносе контекста на WLS

PS: То же самое можно было сделать через Web-интерфейс. Но в данном случае можно просто открыть созданный контекст и проверить настройки.

Для этого нужно выбрать Администрируемые объекты JMS -> Добавить начальный контекст

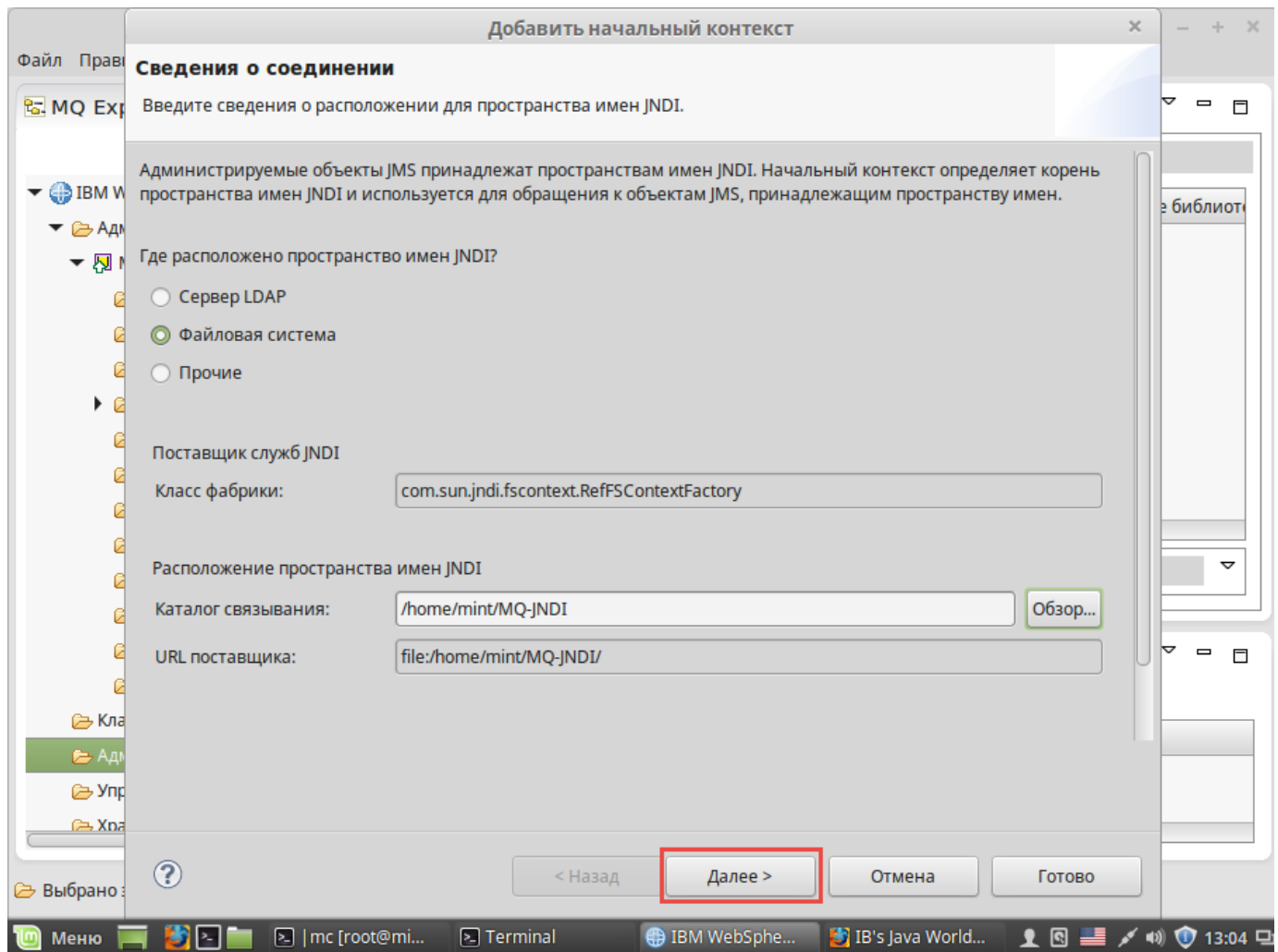


Выбрать Файловая система и указать в Каталоге связывания папку, созданную в начале

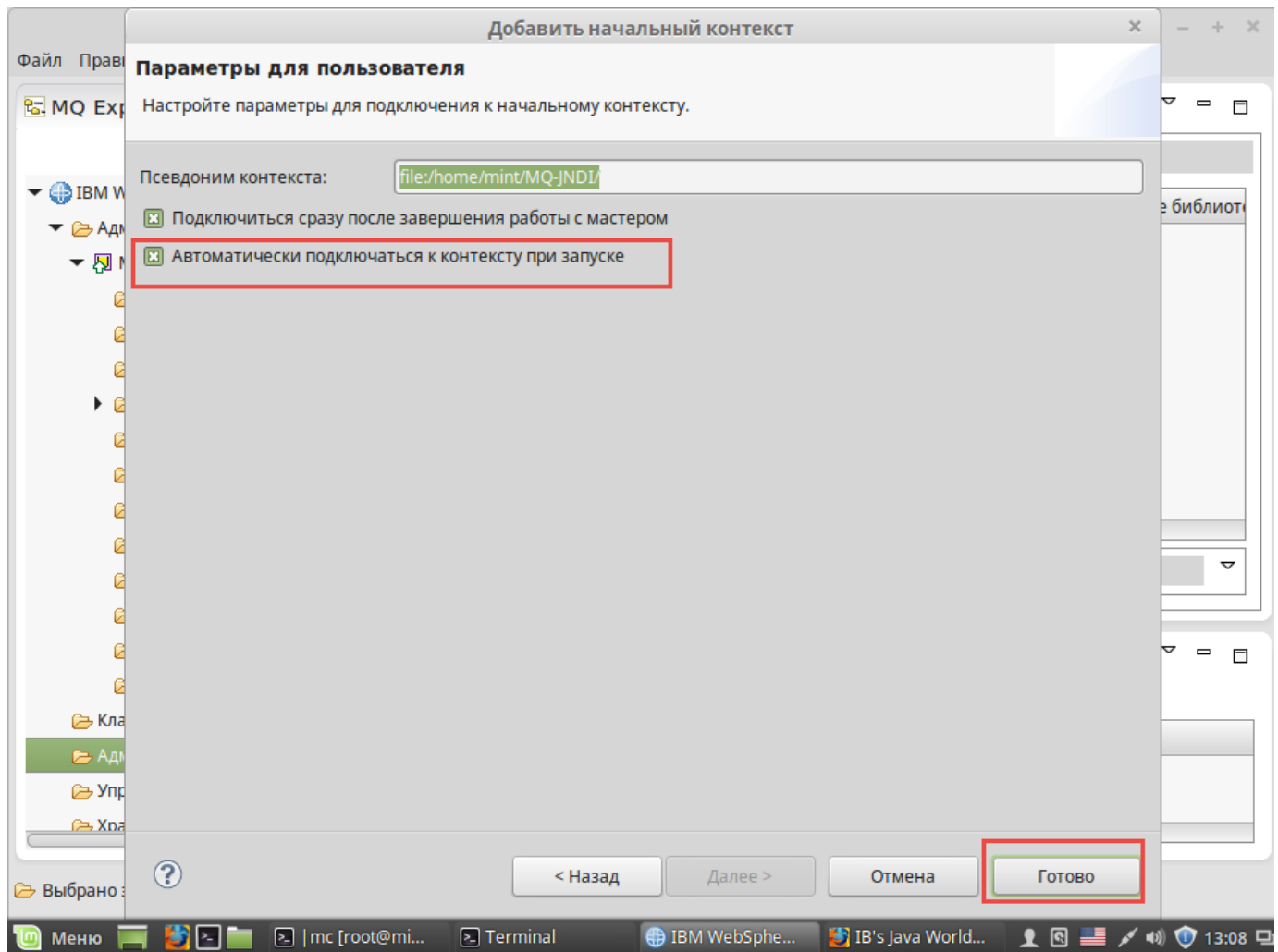


Нажать Далее





Установить флажок на Автоматически подключаться к контексту при запуске и нажать Готово



В разделе Фабрики соединений должна отобразиться созданная фабрика MQTestQCF с параметром Транспорт = Клиент

IBM WebSphere MQ Explorer (Installation1)

Файл Правка Окно Справка

MQ Explorer - Навиг

- Администраторы очереди
  - MQTest
    - Очереди
    - Разделы
    - Подписки
    - Каналы
    - Телеметрия
    - Получатели запросов
    - Службы
    - Определения процессов
    - Списки имен
    - Идентификационная информация
    - Информация о соединении
    - Стратегии защиты
  - Кластеры администраторов очереди
- Администрируемые объекты JMS
  - file:/home/mint/MQ-JNDI/
    - Фабрики соединений**
    - Целевые объекты

MQ Explorer - Данные

Фабрики соединений

Фильтр: Стандартный для Фабрика соединений JMS

Имя	Оп	Имя класса	Поставщик службы	Транспорт	Версия
MQTestQCF		MQXAQueueConnectionFactory	WebSphere MQ	<b>Клиент</b>	не указ

Схема: Стандартный для Фабрика соединений JMS

Последнее обновление: 13:09:29 (1 элемент)

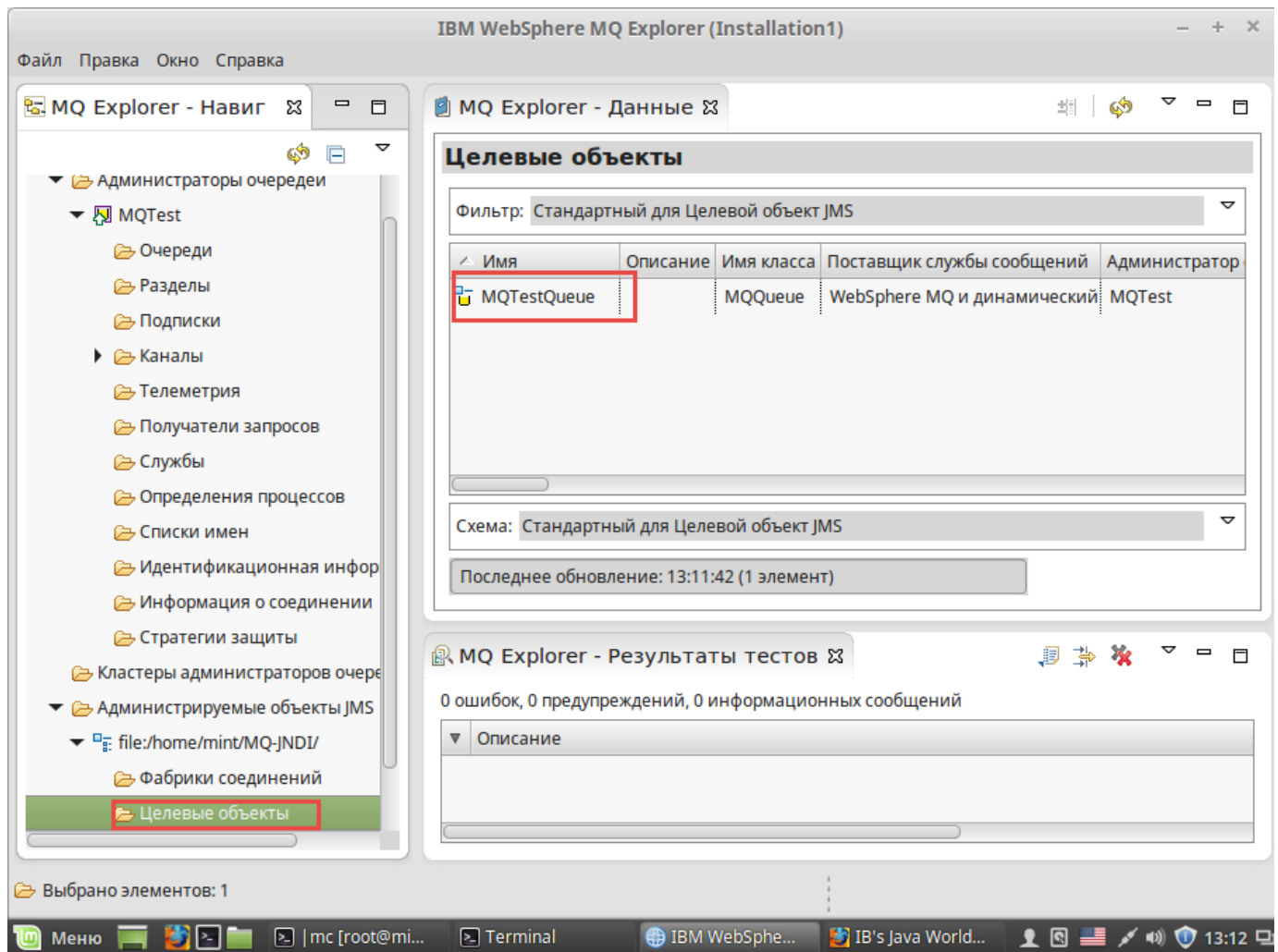
MQ Explorer - Результаты тестов

0 ошибок, 0 предупреждений, 0 информационных сообщений

Описание

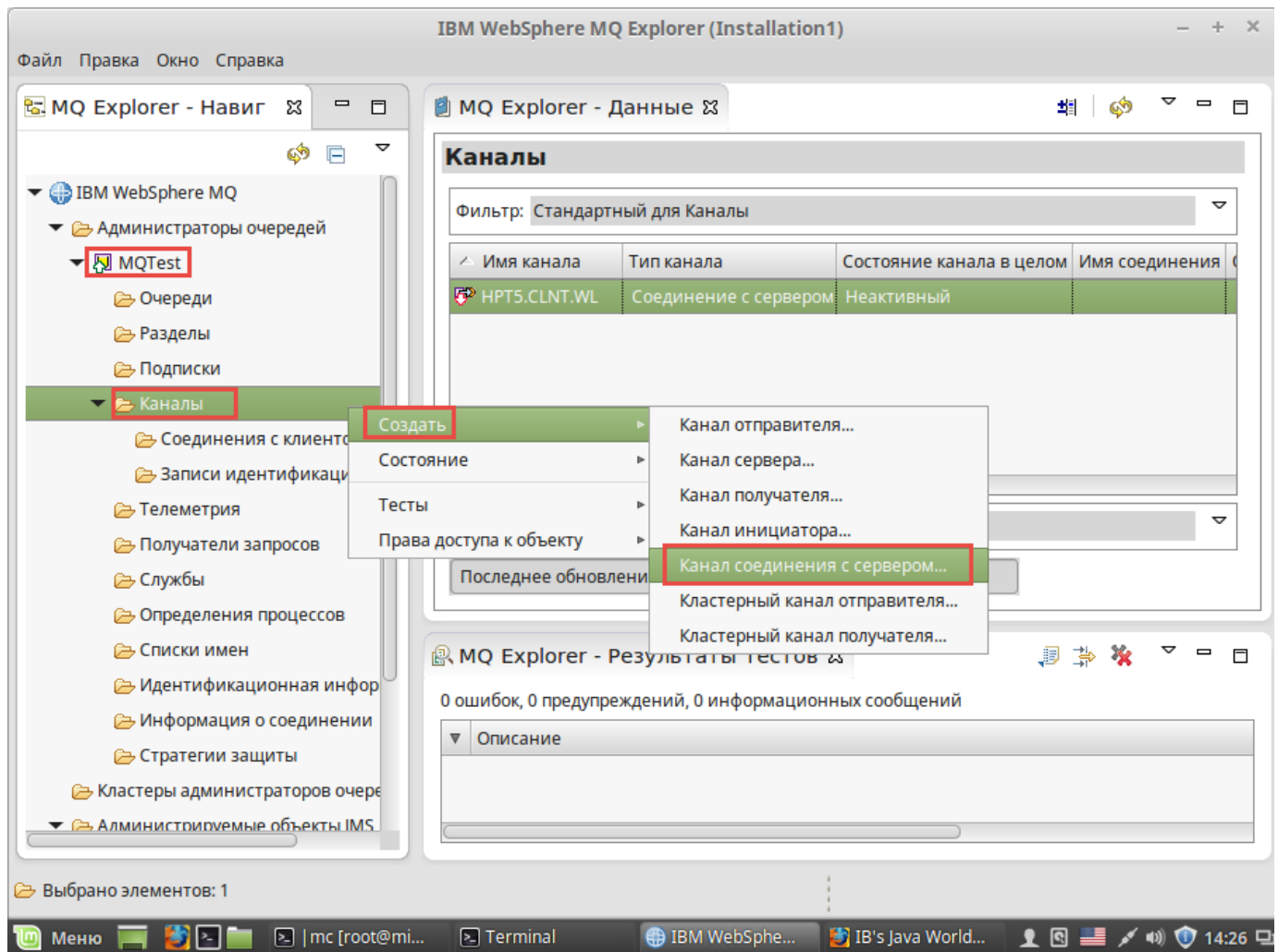
Меню | mc [root@mi... | Terminal | IBM WebSphe... | IB's Java World... | 13:09

В разделе Целевые объекты должна отобразиться очередь сообщений MQTestQueue

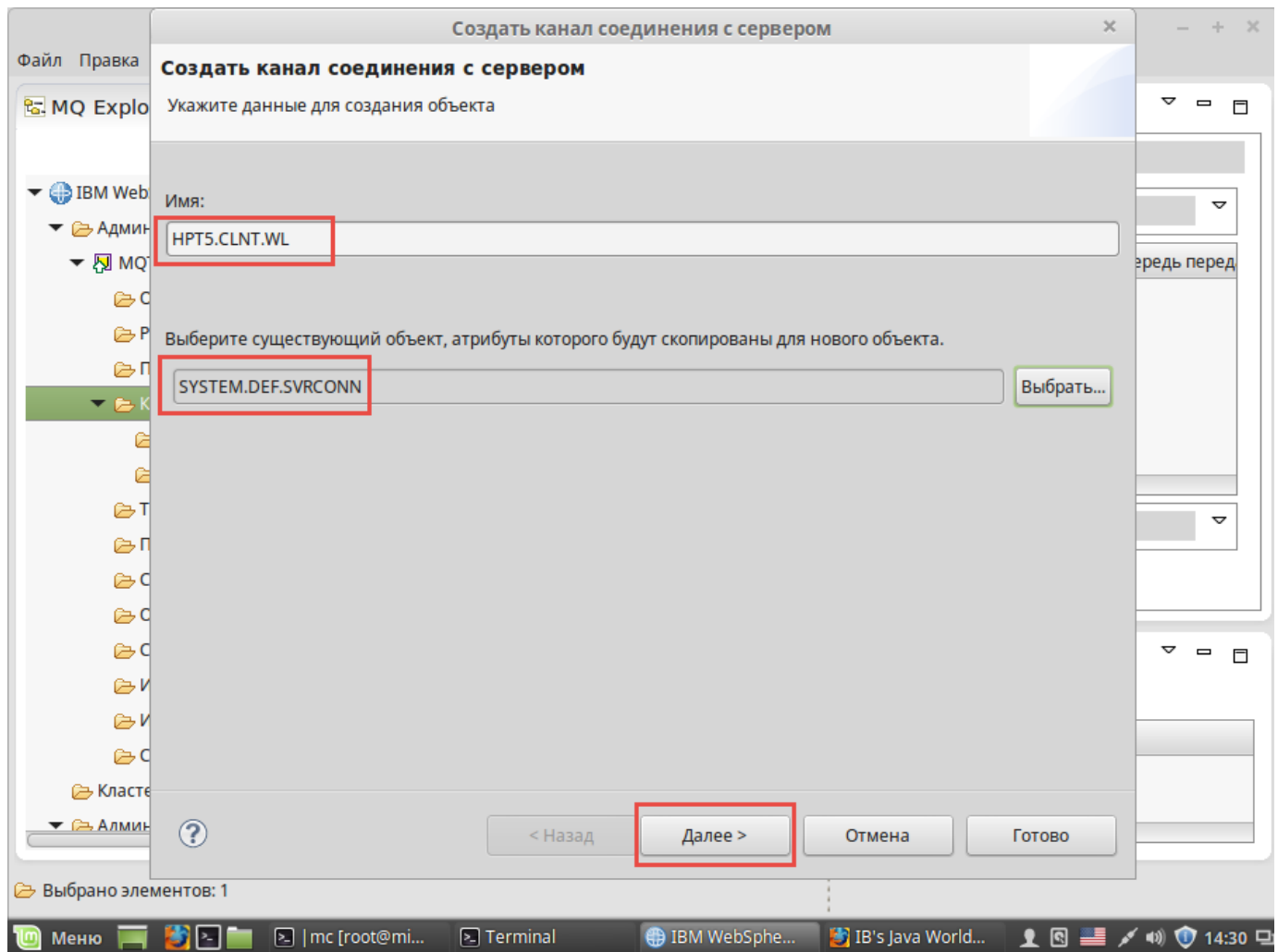


### 3. Создание канала соединения

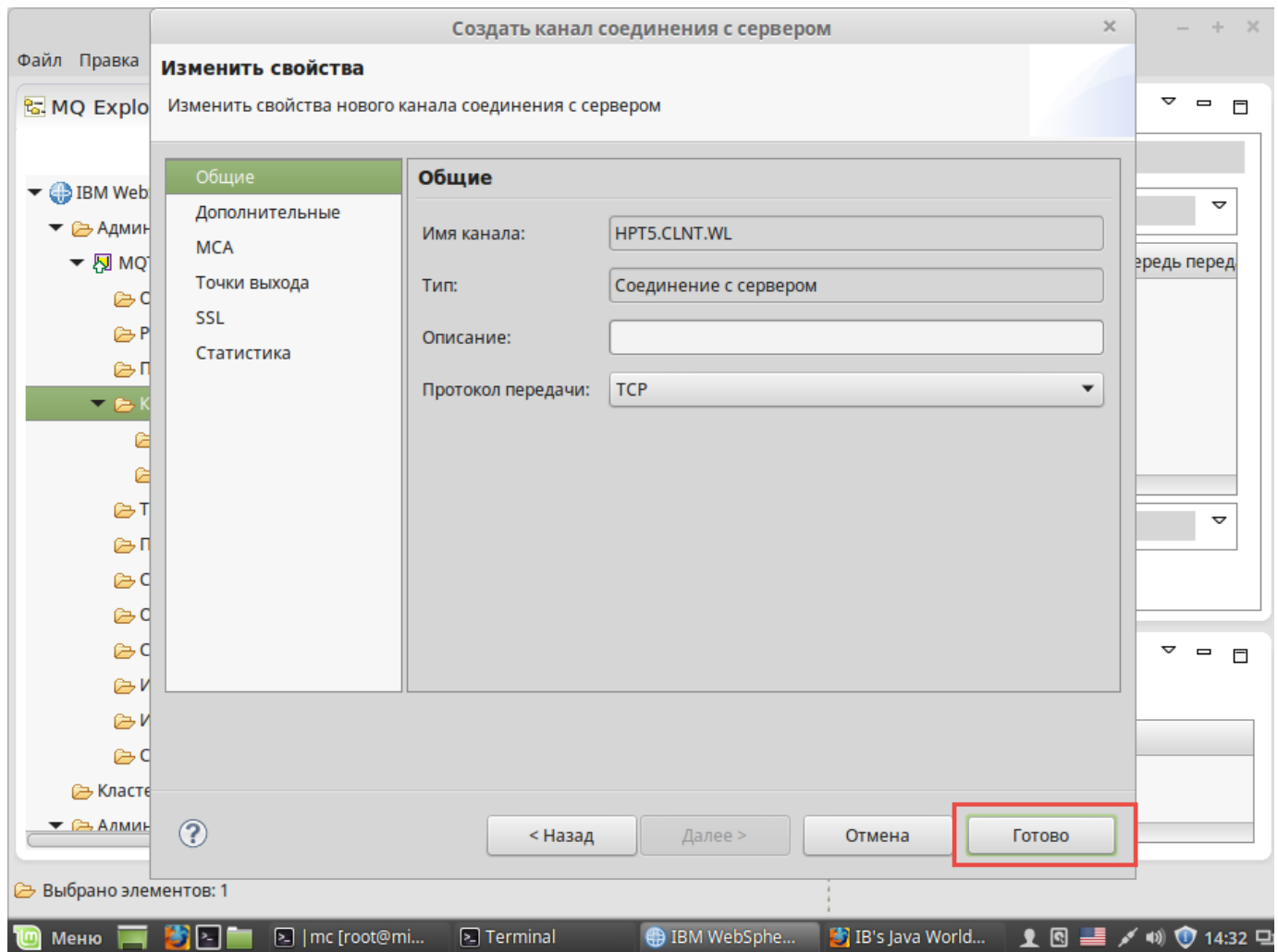
Выбрать Администраторы очередей -> MQTest -> Каналы -> Создать -> Канал соединения с сервером



Указать в качестве имени канала HPT5.CLNT.WL и выбрать из списка SYSTEM.DEF.SVRCONN в качестве канала для копирования свойств. Нажать Далее



В следующем окне нажать Готово



#### 4. Настройка параметров аутентификации

Выполнить команду

```
/opt/mqm/bin/runmqsc MQTest
```

В открывшейся консоли выполнить

```
ALTER QMGR CHLAUTH(DISABLED)
end
```

#### 4. Создание пользователя очереди

Создать в системе пользователя (например mquser) и добавить его в группу пользователей MQ (по-умолчанию - mqm)

```
useradd -G mqm mquser
```

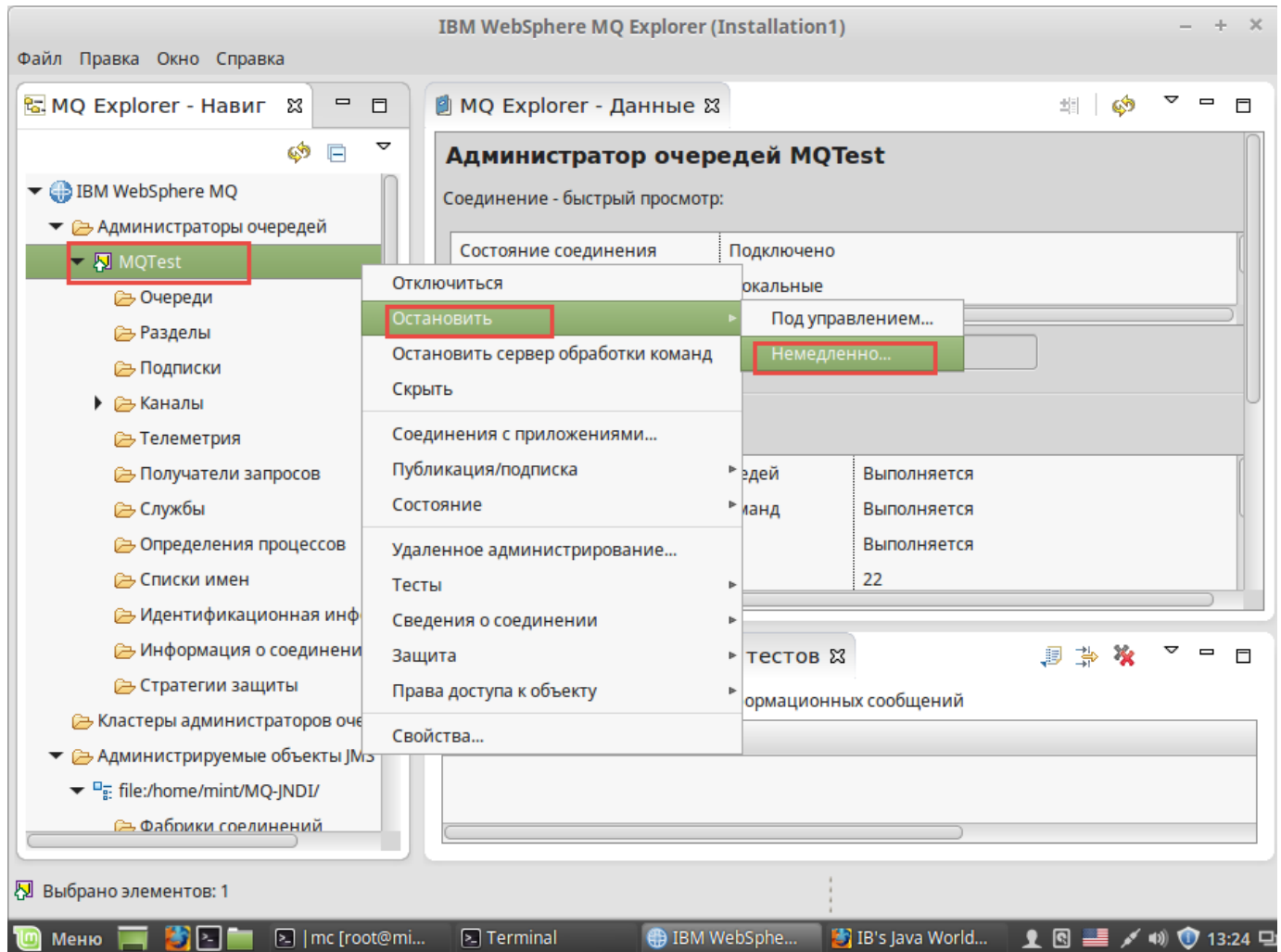
Создать пользователю пароль

```
passwd mquser
```

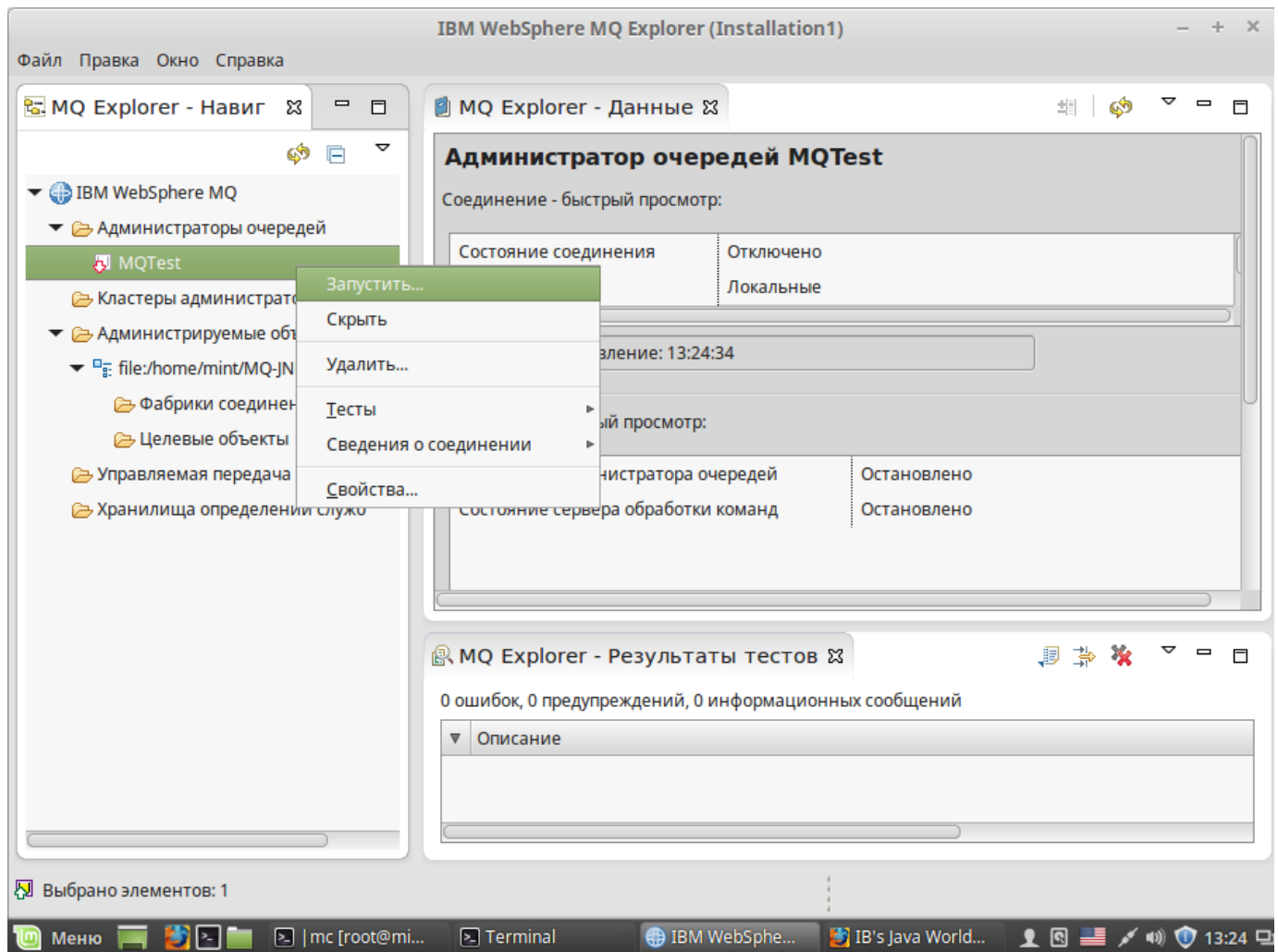
Установить, например mquser1

## 5. Перезапуск MQ

Перезапустить Администратор Очерей MQTest







На этом настройка MQ закончена.

## Настройка пересылки в Oracle WebLogic 12.2.1

### 1. Создание JMS модуля

В консоли WLS выбрать Services -> Messaging -> JMS Modules и нажать New

## Change Center

## View changes and restarts

Configuration editing is enabled. Future changes will automatically be activated as you modify, add or delete items in this domain.

## Domain Structure

sberbank

- Domain Partitions
- Environment
- Deployments
- Services
  - Messaging
    - JMS Servers
    - Store-and-Forward Agents
    - JMS Modules**
    - Path Services
  - Bridges
  - Data Sources
  - Persistent Stores
  - Foreign JNDI Providers

## How do I...

- Configure JMS system modules
- Configure resources for JMS system modules

## System Status

## Health of Running Servers

Failed (0)  
Critical (0)  
Overloaded (0)  
Warning (0)  
OK (1)

[Home](#) [Log Out](#) [Preferences](#) [Record](#) [Help](#)

Welcome, weblogic

Connected to: sberbank

[Home](#) > [Summary of JMS Servers](#) > [Summary of JMS Modules](#) > [Summary of JMS Servers](#) > [SVWI](#) > [Summary of JMS Servers](#) > [Summary of JMS Modules](#)

## Summary of JMS Modules

JMS system resources are configured and stored as modules similar to standard Java EE modules. Such resources include queues, topics, connection factories, templates, destination keys, quota, distributed queues, distributed topics, foreign servers, and JMS store-and-forward (SAF) parameters. You can administratively configure and manage JMS system modules as global system resources.

This page summarizes the JMS system modules that have been created for this domain.

## Customize this table

## JMS Modules

[New](#)[Delete](#)Showing 1 to 1 of 1 [Previous](#) | [Next](#)

<input type="checkbox"/>	Name ↕	Type	Scope	Domain Partitions
<input type="checkbox"/>	Audit	JMSSystemResource	Global	

[New](#)[Delete](#)Showing 1 to 1 of 1 [Previous](#) | [Next](#)

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localhost:7004/console/console.portal?\_nfpb=true&amp;\_page...

Указать имя (например MQIntegrationTest) и нажать Next

## Change Center

## View changes and restarts

Configuration editing is enabled. Future changes will automatically be activated as you modify, add or delete items in this domain.

## Domain Structure

sberbank

- Domain Partitions
- Environment
- Deployments
- Services
  - Messaging
    - JMS Servers
    - Store-and-Forward Agents
    - JMS Modules
    - Path Services
  - Bridges
  - Data Sources
  - Persistent Stores
  - Foreign JNDI Providers

## How do I...

- Configure JMS system modules
- Configure JMS servers

## System Status

## Health of Running Servers

<div></div>	Failed (0)
<div></div>	Critical (0)
<div></div>	Overloaded (0)
<div></div>	Warning (0)
<div></div>	OK (1)

[Home](#) [Log Out](#) [Preferences](#) [Record](#) [Help](#)

Welcome, weblogic

Connected to: sberbank

[Home](#) > [Summary of JMS Servers](#) > [Summary of JMS Modules](#) > [Summary of JMS Servers](#) > [SVWI](#) > [Summary of JMS Servers](#) > [Summary of JMS Modules](#)

## Create JMS System Module

[Back](#) [Next](#) [Finish](#) [Cancel](#)

## The following properties will be used to identify your new module.

JMS system resources are configured and stored as modules similar to standard Java EE modules. Such resources include queues, topics, connection factories, templates, destination keys, quota, distributed queues, distributed topics, foreign servers, and JMS store-and-forward (SAF) parameters. You can administratively configure and manage JMS system modules as global system resources.

\* Indicates required fields

What would you like to name your System Module?

\* Name:

MQIntegrationTest

Would you like this new JMS System Module to be restricted to a specific resource group template or resource group?

Scope:

Global ▼

What would you like to name the descriptor file name? If you do not provide a name, a default will be assigned.

Descriptor File Name:

Where would like to place the descriptor for this System Module, relative to the jms configuration sub-directory of your domain?

Location In Domain:

[Back](#) [Next](#) [Finish](#) [Cancel](#)

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Указать Target (например AdminServer) и нажать Next

## Change Center

## View changes and restarts

Configuration editing is enabled. Future changes will automatically be activated as you modify, add or delete items in this domain.

## Domain Structure

sberbank

- Domain Partitions
- Environment
- Deployments
- Services
  - Messaging
    - JMS Servers
    - Store-and-Forward Agents
    - JMS Modules
    - Path Services
  - Bridges
  - Data Sources
  - Persistent Stores
  - Foreign JNDI Providers

## How do I...

- Configure JMS system modules
- Configure JMS servers

## System Status

## Health of Running Servers

Failed (0)

Critical (0)

Overloaded (0)

Warning (0)

OK (1)

Home Log Out Preferences Record Help

Welcome, weblogic Connected to: sberbank

Home > Summary of JMS Servers > Summary of JMS Modules > Summary of JMS Servers > SVWI > Summary of JMS Servers > Summary of JMS Modules

## Create JMS System Module

Back Next Finish Cancel

The following properties will be used to target your new JMS system module.

Use this page to select the server or cluster on which you would like to deploy this JMS system module. You can reconfigure targets later if you wish.

## Targets :

Servers
<input checked="" type="checkbox"/> AdminServer

Back Next Finish Cancel

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Нажать Finish

**ORACLE** WebLogic Server Administration Console 12c

Home Log Out Preferences Record Help Welcome, weblogic Connected to: sberbank

Home > Summary of JMS Servers > Summary of JMS Modules > Summary of JMS Servers > SVWI > Summary of JMS Servers > Summary of JMS Modules

### Change Center

**View changes and restarts**

Configuration editing is enabled. Future changes will automatically be activated as you modify, add or delete items in this domain.

### Domain Structure

- sberbank
  - Domain Partitions
  - Environment
  - Deployments
  - Services
    - Messaging
      - JMS Servers
      - Store-and-Forward Agents
      - JMS Modules
      - Path Services
    - Bridges
    - Data Sources
    - Persistent Stores
    - Foreign JNDI Providers

### How do I...

- Configure JMS system modules
- Configure JMS servers

### System Status

Health of Running Servers

Failed (0)
Critical (0)
Overloaded (0)
Warning (0)
OK (1)

### Create JMS System Module

Back Next **Finish** Cancel

#### Add resources to this JMS system module

Use this page to indicate whether you want to immediately add resources to this JMS system module after it is created. JMS resources include queues, topics, connection factories, etc.

☐ Would you like to add resources to this JMS system module?

Back Next **Finish** Cancel

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## 2. Создание JMS ресурса

Выбрать только что созданный JMS-модуль MQIntegrationTest

## Change Center

## View changes and restarts

Configuration editing is enabled. Future changes will automatically be activated as you modify, add or delete items in this domain.

## Domain Structure

sberbank

- Domain Partitions
- Environment
- Deployments
- Services
  - Messaging
    - JMS Servers
    - Store-and-Forward Agents
    - JMS Modules**
    - Path Services
  - Bridges
  - Data Sources
  - Persistent Stores
  - Foreign JNDI Providers

## How do I...

- Configure JMS system modules
- Configure resources for JMS system modules

## System Status

## Health of Running Servers

Failed (0)  
Critical (0)  
Overloaded (0)  
Warning (0)  
OK (1)

[Home](#) [Log Out](#) [Preferences](#) [Record](#) [Help](#)

Welcome, weblogic

Connected to: sberbank

[Home](#) > [Summary of JMS Servers](#) > [Summary of JMS Modules](#) > [Summary of JMS Servers](#) > [Summary of JMS Modules](#) > [MQIntegrationTest](#) > [Summary of JMS Modules](#)

## Summary of JMS Modules

JMS system resources are configured and stored as modules similar to standard Java EE modules. Such resources include queues, topics, connection factories, templates, destination keys, quota, distributed queues, distributed topics, foreign servers, and JMS store-and-forward (SAF) parameters. You can administratively configure and manage JMS system modules as global system resources.

This page summarizes the JMS system modules that have been created for this domain.

## Customize this table

## JMS Modules

[New](#) [Delete](#)Showing 1 to 2 of 2 [Previous](#) | [Next](#)

<input type="checkbox"/>	Name ↕	Type	Scope	Domain Partitions
<input type="checkbox"/>	Audit	JMSSystemResource	Global	
<input type="checkbox"/>	MQIntegrationTest	JMSSystemResource	Global	

[New](#) [Delete](#)Showing 1 to 2 of 2 [Previous](#) | [Next](#)

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Нажать New

## Change Center

## View changes and restarts

Configuration editing is enabled. Future changes will automatically be activated as you modify, add or delete items in this domain.

## Domain Structure

sberbank

- Domain Partitions
- Environment
- Deployments
- Services
  - Messaging
    - JMS Servers
    - Store-and-Forward Agents
    - JMS Modules
    - Path Services
  - Bridges
  - Data Sources
  - Persistent Stores
  - Foreign JNDI Providers

## How do I...

No task help found.

## System Status

## Health of Running Servers

Failed (0)

Critical (0)

Overloaded (0)

Warning (0)

OK (1)

Home Log Out Preferences Record Help

Welcome, weblogic

Connected to: sberbank

Home > Summary of JMS Servers > Summary of JMS Modules > Summary of JMS Servers > SVWI > Summary of JMS Servers > Summary of JMS Modules > MQIntegrationTest > Summary of JMS Modules > MQIntegrationTest

## Settings for MQIntegrationTest

## Configuration

## Subdeployments

## Targets

## Security

## Notes

This page displays general information about a JMS system module and its resources. It also allows you to configure new resources and access existing resources.

Name:	MQIntegrationTest	The name of this JMS system module. <a href="#">More Info...</a>
Scope:	Global	Specifies if the JMS system module is accessible within the domain, a partition, or a resource group template. <a href="#">More Info...</a>
Descriptor File Name:	jms/mqintegrationtest-jms.xml	The name of the JMS module descriptor file. <a href="#">More Info...</a>

This page summarizes the JMS resources that have been created for this JMS system module, including queue and topic destinations, connection factories, JMS templates, destination sort keys, destination quota, distributed destinations, foreign servers, and store-and-forward parameters.

## Customize this table

## Summary of Resources

New

Delete

Showing 0 to 0 of 0 Previous | Next

<input type="checkbox"/>	Name ↕	Type	JNDI Name	Subdeployment	Targets
There are no items to display					

New

Delete

Showing 0 to 0 of 0 Previous | Next

WebLogic Server Version: 12.2.1.0.0

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Выбрать Foreign Server и нажать Next

- Configure queues
- Configure connection factories
- Configure uniform distributed topics
- Configure uniform distributed queues
- Configure foreign servers
- Configure JMS SAF

**System Status**

Health of Running Servers

<div></div>	Failed (0)
<div></div>	Critical (0)
<div></div>	Overloaded (0)
<div></div>	Warning (0)
<div></div>	OK (1)

<input type="radio"/> <b>Distributed Queue</b>	Defines a set of queues that are distributed on multiple JMS servers, but which are accessible as a single, logical queue to JMS clients. <a href="#">More Info...</a>
<input type="radio"/> <b>Distributed Topic</b>	Defines a set of topics that are distributed on multiple JMS servers, but which are accessible as a single, logical topic to JMS clients. <a href="#">More Info...</a>
<input checked="" type="radio"/> <b>Foreign Server</b>	Defines foreign messaging providers or remote WebLogic Server instances that are not part of the current domain. <a href="#">More Info...</a>
<input type="radio"/> <b>Quota</b>	Controls the allotment of system resources available to destinations. <a href="#">More Info...</a>
<input type="radio"/> <b>Destination Sort Key</b>	Defines a unique sort order that destinations can apply to arriving messages. <a href="#">More Info...</a>
<input type="radio"/> <b>JMS Template</b>	Defines a set of default configuration settings for multiple destinations. <a href="#">More Info...</a>
<input type="radio"/> <b>SAF Imported Destinations</b>	Defines a collection of imported store-and-forward (SAF) destinations. A SAF destination is a representation of a queue or topic in a remote server instance or cluster that is imported into the local cluster or server instance, so that the local server instance or cluster can send messages to the remote server instance or cluster. <a href="#">More Info...</a>
<input type="radio"/> <b>Remote SAF Context</b>	Defines the URL of the remote server instance or cluster where a JMS destination is exported from. It also contains the security credentials to be authenticated and authorized in the remote cluster or server. <a href="#">More Info...</a>
<input type="radio"/> <b>SAF Error Handling</b>	Defines the action to take when the SAF service fails to forward messages to remote destinations. <a href="#">More Info...</a>

Ввести имя (например MQTestForeignServer) и нажать Next



## Change Center

## View changes and restarts

Configuration editing is enabled. Future changes will automatically be activated as you modify, add or delete items in this domain.

## Domain Structure

sberbank

- Domain Partitions
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- Foreign JNDI Providers

## How do I...

- Configure quotas for destinations
- Configure JMS templates
- Configure destination keys
- Configure topics
- Configure queues
- Configure connection factories
- Configure uniform distributed topics
- Configure uniform distributed queues
- Configure foreign servers
- Configure JMS SAF

## System Status

Health of Running Servers

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Welcome, weblogic

Connected to: sberbank

Home > Summary of JMS Servers > Summary of JMS Modules > Summary of JMS Servers > SVWI > Summary of JMS Servers > Summary of JMS Modules > MQIntegrationTest > Summary of JMS Modules > MQIntegrationTest

## Create a New JMS System Module Resource

Back Next Finish Cancel

## Foreign Server Properties

The following properties will be used to identify your new foreign server. The current module is MQIntegrationTest.

\* Indicates required fields

\* Name:

MQTestForeignServer

Back Next Finish Cancel

Нажать Finish

## Change Center

## View changes and restarts

Configuration editing is enabled. Future changes will automatically be activated as you modify, add or delete items in this domain.

## Domain Structure

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## How do I...

- Configure quotas for destinations
- Configure JMS templates
- Configure destination keys
- Configure topics
- Configure queues
- Configure connection factories
- Configure uniform distributed topics
- Configure uniform distributed queues
- Configure foreign servers
- Configure JMS SAF

## System Status

Health of Running Servers



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## Create a New JMS System Module Resource

Back Next Finish Advanced Targeting Cancel

## The following properties will be used to target your new JMS system module resource

Use this page to view and accept the default targets where this JMS resource will be targeted. The default targets are based on the parent JMS system module targets. If you do not want to accept the default targets, then click **Advanced Targeting** to use the subdeployment mechanism for targeting this resource.

The following JMS module targets will be used as the default targets for your new JMS system module resource. If the module's targets are changed, this resource will also be retargeted appropriately.

## Targets :

## Servers

☒ AdminServer

Back Next Finish Advanced Targeting Cancel

Выбрать только что созданный ресурс и в разделе Configuration -> General задать поля

JNDI Initial Context Factory: com.sun.jndi.fscontext.RefFSContextFactory

JNDI Connection URL: file:/C:/MQ-JNDI

и нажать Save

## Change Center

## View changes and restarts

Configuration editing is enabled. Future changes will automatically be activated as you modify, add or delete items in this domain.

## Domain Structure

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## How do I...

- Create foreign connection factories
- Create foreign destinations

## System Status

## Health of Running Servers

Failed (0)  
Critical (0)  
Overloaded (0)  
Warning (0)  
OK (1)

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Home > Summary of JMS Servers > Summary of JMS Modules > Summary of JMS Servers > SVWI > Summary of JMS Servers > Summary of JMS Modules > MQIntegrationTest > Summary of JMS Modules > MQIntegrationTest > MQTestForeignServer

## Settings for MQTestForeignServer

## Configuration

## Subdeployment

## Notes

## General

## Destinations

## Connection Factories

## Save

A foreign server represents a JNDI provider that resides outside a WebLogic Server. It contains information that allows WebLogic Server to reach the remote JNDI provider. This way, a number of connection factory and destination objects (queues or topics) can be defined on one JNDI directory. Use this page to configure a foreign server.

Name: MQTestForeignServer

The name of this foreign server. [More Info...](#)

JNDI Initial Context Factory: com.sun.jndi.fscontext.RefF

The name of the class that must be instantiated to access the JNDI provider. This class name depends on the JNDI provider and the vendor that are being used. [More Info...](#)

JNDI Connection URL: file://C:/MQ-JNDI

The URL that WebLogic Server will use to contact the JNDI provider. The syntax of this URL depends on which JNDI provider is being used. For WebLogic JMS, leave this field blank if you are referencing WebLogic JMS objects within the same cluster. [More Info...](#)

JNDI Properties Credential:

Any Credentials that must be set for the JNDI provider. These Credentials will be part of the properties will be passed directly to the constructor for the JNDI provider's InitialContext class. Note: For secure credential management, use the Credential field. Using the Properties field results in the credential being stored and displayed as originally entered [More Info...](#)

Перейти на вкладку Destinations и нажать New

## Change Center

## View changes and restarts

Configuration editing is enabled. Future changes will automatically be activated as you modify, add or delete items in this domain.

## Domain Structure

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  - Foreign JNDI Providers

## How do I...

- Configure foreign servers
- Create foreign connection factories

## System Status

## Health of Running Servers

Failed (0)

Critical (0)

Overloaded (0)

Warning (0)

OK (1)

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Home > SVWI > Summary of JMS Servers > Summary of JMS Modules > MQIntegrationTest > Summary of JMS Modules > MQIntegrationTest > MQTestForeignServer > Configuration > MQTestForeignServer > Configuration

## Settings for MQTestForeignServer

## Configuration

## Subdeployment

## Notes

## General

## Destinations

## Connection Factories

A foreign destination (topic or queue) can be found on a remote server. When this destination is looked up on the local server, a look-up will be performed automatically on the remote JNDI directory, and the object will be returned from that directory.

This page summarizes the foreign destinations that have been created for this domain.

## Customize this table

## Foreign Destinations

New

Delete

Showing 0 to 0 of 0 Previous | Next

☐

Name

Local JNDI Name

Remote JNDI Name

There are no items to display

New

Delete

Showing 0 to 0 of 0 Previous | Next

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Заполнить поля

Name: RelayDetails

Local JNDI Name: jms/WLRelayQueue

Remote JNDI Name: MQTestQueue

И нажать OK

## Change Center

## View changes and restarts

Configuration editing is enabled. Future changes will automatically be activated as you modify, add or delete items in this domain.

## Domain Structure

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## How do I...

- Configure foreign servers
- Create foreign connection factories

## System Status

## Health of Running Servers

Failed (0)

Critical (0)

Overloaded (0)

Warning (0)

OK (1)

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Home > Configuration > MQTestForeignServer > Configuration > RelayCF > Configuration > RelayDetails > Summary of JMS Modules > MQIntegrationTest > MQTestForeignServer > Configuration

## Create a New Foreign JMS Destination

OK Cancel

## Foreign Destination Properties

The following properties will be used to identify your new foreign destination.

\* Indicates required fields

\* Name:

RelayDetails

Local JNDI Name:

jms/WLRelayQueue

Remote JNDI Name:

MQTestQueue

OK Cancel

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Перейти на вкладку Connection Factories и нажать New

## Change Center

## View changes and restarts

Configuration editing is enabled. Future changes will automatically be activated as you modify, add or delete items in this domain.

## Domain Structure

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## How do I...

- Configure foreign servers
- Create foreign destinations

## System Status

## Health of Running Servers

Failed (0)

Critical (0)

Overloaded (0)

Warning (0)

OK (1)

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Home > SVWI > Summary of JMS Servers > Summary of JMS Modules > MQIntegrationTest > Summary of JMS Modules > MQIntegrationTest > MQTestForeignServer > Configuration > MQTestForeignServer > Configuration

## Settings for MQTestForeignServer

## Configuration

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## General

## Destinations

## Connection Factories

A foreign connection factory represents a connection factory that resides on another server, and which is accessible via JNDI. A remote connection factory can be used to refer to another instance of WebLogic Server running in a different cluster or server, or a foreign provider, as long as that provider supports JNDI.

This page summarizes the foreign connection factories that have been created for this domain.

## Customize this table

## Foreign Connection Factories (Filtered - More Columns Exist)

New

Delete

Showing 0 to 0 of 0 Previous | Next



Name

Local JNDI Name

Remote JNDI Name

There are no items to display

New

Delete

Showing 0 to 0 of 0 Previous | Next

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Заполнить поля

Name: RelayCF

Local JNDI Name: jms/WLRelayQCF

Remote JNDI Name: MQTestQCF

И нажать OK

## Change Center

## View changes and restarts

Configuration editing is enabled. Future changes will automatically be activated as you modify, add or delete items in this domain.

## Domain Structure

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## How do I...

- Configure foreign servers
- Create foreign destinations

## System Status

## Health of Running Servers

Failed (0)

Critical (0)

Overloaded (0)

Warning (0)

OK (1)

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Welcome, weblogic

Connected to: sberbank

Home > Configuration > MQTestForeignServer > Configuration > RelayCF > Configuration > RelayDetails > Summary of JMS Modules > MQIntegrationTest > MQTestForeignServer > Configuration

## Create a New Foreign JMS Connection Factory

OK Cancel

## Foreign Connection Factory Properties

The following properties will be used to identify your new foreign connection factory.

\* Indicates required fields

\* Name:

RelayCF

Local JNDI Name:

jms/WLRelayQCF

Remote JNDI Name:

MQTestQCF

OK Cancel

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После этого нажать на созданный RelayCF

**ORACLE WebLogic Server Administration Console 12c**

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Home > Summary of Deployments > Summary of JMS Modules > MQIntegrationTest > MQTestForeignServer > Configuration > RelayCF > Summary of JMS Modules > MQIntegrationTest > MQTestForeignServer > Configuration

**Change Center**

**View changes and restarts**

Configuration editing is enabled. Future changes will automatically be activated as you modify, add or delete items in this domain.

**Domain Structure**

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**How do I...**

- Configure foreign servers
- Create foreign destinations

**System Status**

Health of Running Servers

- Failed (0)
- Critical (0)
- Overloaded (0)
- Warning (0)
- OK (1)

**Settings for MQTestForeignServer**

**Configuration** Subdeployment Notes

General Destinations **Connection Factories**

A foreign connection factory represents a connection factory that resides on another server, and which is accessible via JNDI. A remote connection factory can be used to refer to another instance of WebLogic Server running in a different cluster or server, or a foreign provider, as long as that provider supports JNDI.

This page summarizes the foreign connection factories that have been created for this domain.

**Customize this table**

**Foreign Connection Factories (Filtered - More Columns Exist)**

New Delete Showing 1 to 1 of 1 Previous | Next

<input type="checkbox"/>	Name	Local JNDI Name	Remote JNDI Name
<input type="checkbox"/>	RelayCF	jms/WLRelayQCF	MQTestQCF

New Delete Showing 1 to 1 of 1 Previous | Next

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И указать логин-пароль соединения:

User Name: mquser

Password: mquser1

## 2. Настройка JNDI-каталога и библиотек

Скопировать с сервера MQ папку /home/mint/MQ-JNDI в корень диска C:/

Там должно находится два файла: .bindings и mq-jndi.properties

Затем, скопировать в каталог \${WL\_HOME}/user\_projects/domains/\${DOMAIN\_HOME}/lib библиотеки из каталога установки MQ: /opt/mqm/java/lib

- com.ibm.mq.jar
- com.ibm.mq.allclient.jar
- com.ibm.mq.commonservices.jar
- com.ibm.mq.jmqi.jar
- com.ibm.mqjms.jar
- fscontext.jar

PS: для MQ версии 7.5 необходимы следующие библиотеки ([http://www.ibm.com/support/knowledgecenter/SSFKSJ\\_7.5.0/com.ibm.mq.dev.doc/q120070\\_.htm](http://www.ibm.com/support/knowledgecenter/SSFKSJ_7.5.0/com.ibm.mq.dev.doc/q120070_.htm)):

- CL3Export.jar
- CL3Nonexport.jar
- com.ibm.mq.jar
- com.ibm.mq.headers.jar
- com.ibm.mq.jmqi.jar
- com.ibm.mq.pcf.jar
- com.ibm.mqjms.jar
- dhbcore.jar
- fscontext.jar
- providerutil.jar
- rmm.jar



После сделанных процедур необходимо перезапустить сервер WLS.

Для подключения к Relay необходимо использовать:

```
ConnectionFactory: jms/WLRelayQCF  
Queue: jms/WLRelayQueue
```