



EUROPEAN COMMISSION

DIRECTORATE-GENERAL INFORMATICS

Quick start guide

eDelivery pilot for BRIS

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Document History

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1. INTRODUCTION

The CIPA e-Delivery is a generic solution for public administrations to exchange documents in a secure and reliable way.

For easy internal testing in the context of the BRIS project, we have developed a set of 2 instances consisting of a preconfigured JBoss standalone instance and a preconfigured Virtual box appliance.

Each instance contains the following components:

- CIPA e-Delivery connector
- CIPA Administration console
- Domibus (AS4 gateway)

As AS2 message exchanging and dynamic discovery capabilities are not required in the BRIS context, these components are not part of this pilot.

The JBoss standalone instance must be deployed locally. The Virtual box appliance can be deploy locally or on another server:

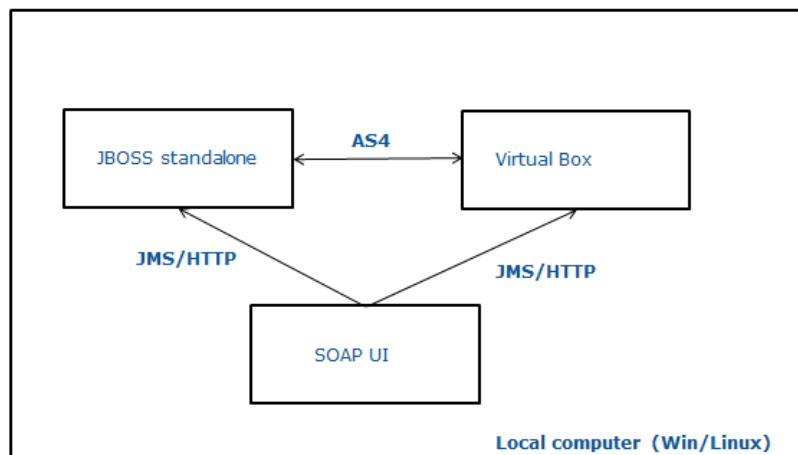


Figure 1 - Installation on the same machine

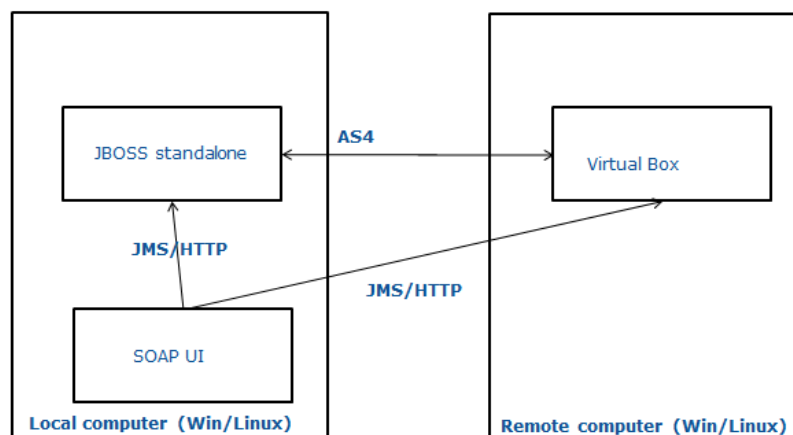


Figure 2 - Installation on 2 different machines

2. PREREQUISITES

- Java runtime environment version 7 or higher
(<http://www.oracle.com/technetwork/java/javase/downloads/index.html>)
- The JCE Unlimited Strength Policy files
For jre7 (<http://www.oracle.com/technetwork/java/javase/downloads/jce-7-download-432124.html>), copy the jar-files from the extracted zip to <JRE_HOME>\lib\security.
- Oracle Virtual box (<https://www.virtualbox.org/wiki/Downloads>)
Used for running the Virtual box image created for easy testing.
- MySQL database server listening on the default port 3306:
<http://dev.mysql.com/downloads/windows/installer/5.6.html>

Please install the above software on your host machine, for further information and installation details we gently forward you to the websites of the manufacturers.


3. CONFIGURE YOUR ENVIRONMENT

3.1. JBoss standalone instance

1. Download the archive from the share drive : <U:\COMMON\CIPASHARE\cipa-edelivery-distribution-3.0.0-bris.zip>
2. Extract the zip file containing the installation package of the CIPA E-Delivery to a location on your physical machine, which we refer to in this document as your "e-Delivery installation path".
3. The open a command prompt and navigate to this directory: <e-Delivery installation Path>\sql-scripts
4. Execute the following commands on the command prompt:

```
mysql -h localhost -u root --password=root -e "drop schema if exists edelivery;create schema edelivery;create user edelivery identified by 'edelivery';grant all on edelivery.* to edelivery;"

mysql -h localhost -u root --password=root edelivery < create-mysql.sql
```

 Note If you are using Windows, make sure to have mysql.exe added to your PATH variable.

5. You can now start the JBoss standalone instance on your computer. Execute:
 - a. bin/standalone.sh (for Linux)
 - b. bin/standalone.bat (for windows)

Expected result:


```

Shell - Konsole
bt ~ # ifconfig
eth0: Link encap:Ethernet HWaddr 00:0C:29:22:E2:69
      inet addr:192.168.73.122 Bcast:192.168.73.255 Mask:255.255.255.0
      UP BROADCAST NOTRAILERS RUNNING MULTICAST MTU:1500 Metric:1
      RX packets:51 errors:0 dropped:0 overruns:0 frame:0
      TX packets:17 errors:0 dropped:0 overruns:0 carrier:0
      collisions:0 txqueuelen:1000
      RX bytes:10582 (10.3 KiB) TX bytes:6984 (6.8 KiB)
      Interrupt:16 Base address:0x1080

lo: Link encap:Local Loopback
      inet addr:127.0.0.1 Mask:255.0.0.0
      UP LOOPBACK RUNNING MTU:16436 Metric:1
      RX packets:0 errors:0 dropped:0 overruns:0 frame:0
      TX packets:0 errors:0 dropped:0 overruns:0 carrier:0
      collisions:0 txqueuelen:0
      RX bytes:0 (0.0 b) TX bytes:0 (0.0 b)

bt ~ #

```

- Click on this [link](#) and replace "Undefined address" with "http://W.X.Y.Z/domibus:8080/services/msh" where W.X.Y.Z is your local IP:

```

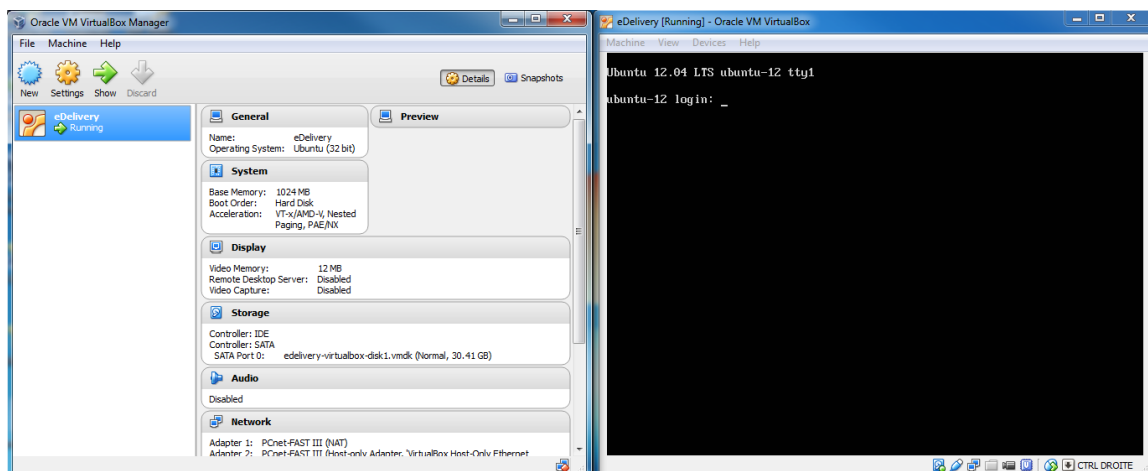
<MEP name="One-Way/Push">
  <Leg number="1" userService="urn:www.cenbii.eu:profile:bii04:ver1.0 urn:oasis:names:tc:ebcore:partyid-type:iso3166-1">
    <Producer name="senderCN_GW">
      <PartyId type="urn:oasis:names:tc:ebcore:partyid-type:iso3166-1">senderCN_GW</Role>
    </Producer>
    <Endpoint address="http://192.168.56.11:8080/domibus/services/msh" soap:binding="soap:binding" style="soap:style" use="urn:www.cenbii.eu:profile:bii04:ver1.0 urn:oasis:names:tc:ebcore:partyid-type:iso3166-1:One-Way/Push"
    <As4Receipt method="response" nonRepudiation="true">
      <As4Reliability maxRetries="3" interval="5" shutdown="10" duplicateDetection="true">
    </As4Receipt>
  </Leg>
</MEP>
Binding
binding name="receiverCN_senderCN urn:www.cenbii.eu:profile:bii04:ver1.0 urn:oasis:names:tc:ebcore:partyid-type:iso3166-1"
<MEP name="One-Way/Push">
  <Leg number="1" userService="urn:www.cenbii.eu:profile:bii04:ver1.0 urn:oasis:names:tc:ebcore:partyid-type:iso3166-1">
    <Producer name="receiverCN_GW">
      <PartyId type="urn:oasis:names:tc:ebcore:partyid-type:iso3166-1">receiverCN_GW</Role>
    </Producer>
    <Endpoint address="http://158.166.147.89:8080/domibus/services/msh" soap:binding="soap:binding" style="soap:style" use="urn:www.cenbii.eu:profile:bii04:ver1.0 urn:oasis:names:tc:ebcore:partyid-type:iso3166-1:One-Way/Push"
    <As4Receipt method="response" nonRepudiation="true">
      <As4Reliability maxRetries="3" interval="5" shutdown="10" duplicateDetection="true">
    </As4Receipt>
  </Leg>
</MEP>
Binding
Mode name="senderCN_receiverCN urn:www.cenbii.eu:profile:bii04:ver1.0 urn:oasis:names:tc:ebcore:partyid-type:iso3166-1"
Mode name="receiverCN_senderCN urn:www.cenbii.eu:profile:bii04:ver1.0 urn:oasis:names:tc:ebcore:partyid-type:iso3166-1"
es>

```

☒ Ms-Dos/Windows ☐ Unix ☒ Write backup
 partner.pmodes.xml

- Click on the "Save" button

Expected result: the Virtual box is up and running

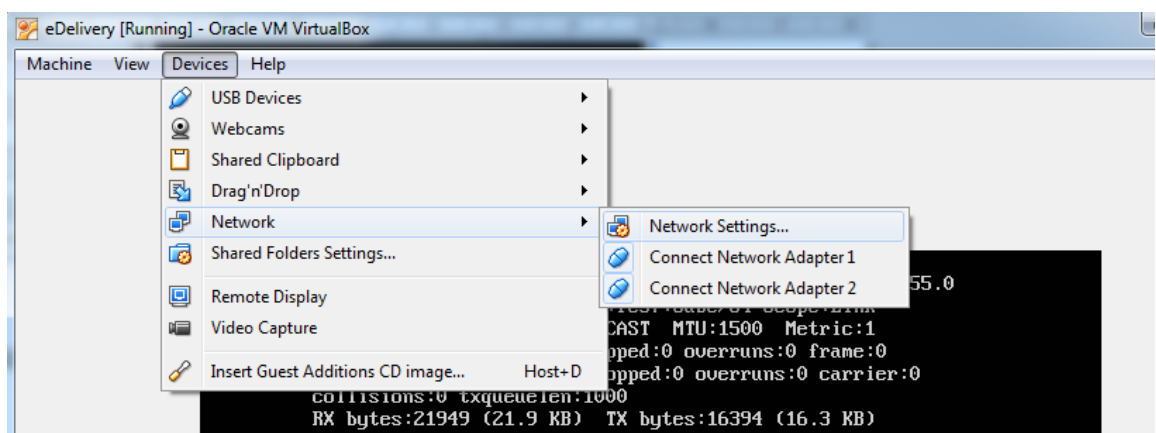


Your Virtual box is now ready to send/receive messages.

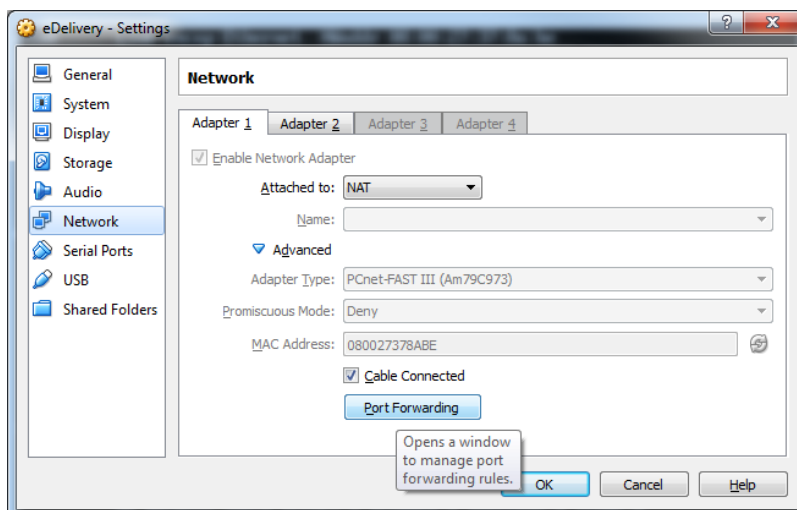
3.2.2. Installation of the Virtual box on another server

To install the Virtual box on a remote machine, you will need to follow these different steps:

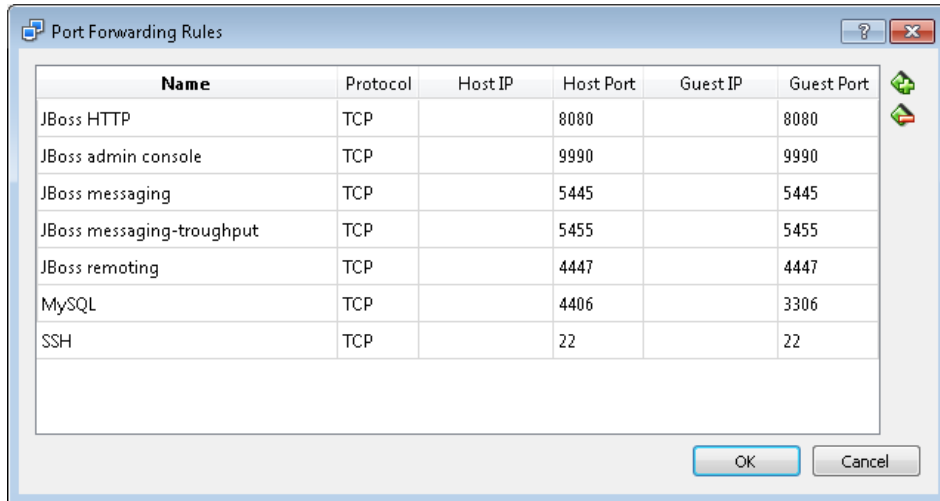
1. Install the virtual box on the remote machine:
 - a. On the remote machine, follow the steps of the chapter 3.2.1 *Local installation of the Virtual box*
 - b. When you replace "Undefined address" with your local IP make sure W.X.Y.Z is your local IP, not the remote machine IP
2. Configure the port forwarding on the remote machine:
 - a. On the remote machine, in Oracle VM Virtualbox, click on "Devices>Network>Network Settings..."



- b. In the next window, click on "Port forwarding":



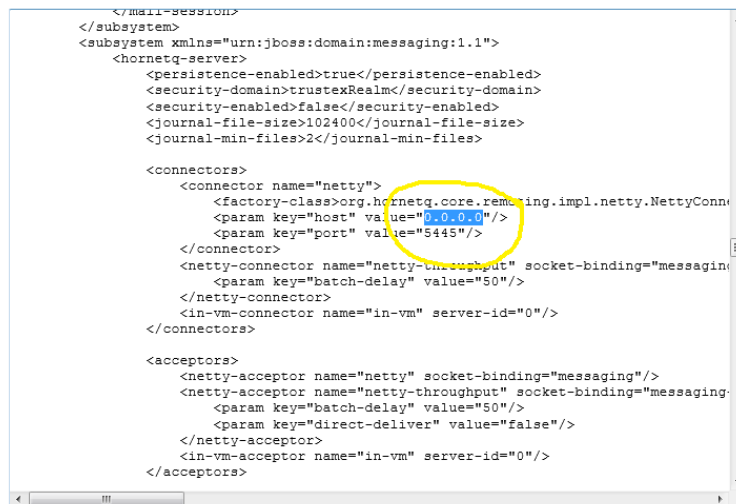
- c. Add the following forwarding rules:



3. Configure the JMS endpoint address on the remote machine

- On the remote machine, click on the following [link](#)
- Identify the IP of the remote machine (or its host name). We will refer to that IP as "I.J.K.L".
- Scroll in the document and change the host value from 0.0.0.0 to I.J.K.L (line 323):

Edit `/home/adminuser/cipa-edelivery-distribution/standalone/configuration/standalone.xml`



- Click on the "Save" button
- Restart the Virtual box by clicking on "Machine > Reset"
 - Configure your local JBoss instance
 - Make sure your local JBoss instance is started
 - Edit the file "`<e-Delivery installation Path>/modules/eu/europa/ec/cipa/configuration/main/domibus/pmodes/partner.pmodes.xml`" and replace the value "192.168.56.11" with the remote machine IP "I.J.K.L" (or its host name):

```

<Binding name="senderCN_receiverCN_urn:www.cenbii.eu:profile:bii04:ver1.0_urn:oasis:names:specificat
<MEP name="One-Way/Push">
  <Leg number="1" userService="urn:www.cenbii.eu:profile:bii04:ver1.0_urn:oasis:names:specific
    <Producer name="senderCN_GW">
      <PartyId type="urn:oasis:names:tc:ebcore:partyid-type:iso3166-1">senderCN</PartyId>
      <Role>GW</Role>
    </Producer>
    <Endpoint address="http://I.J.K.L:8080/donibus/services/msh" soapVersion="1.2"/>
    <As4Receipt method="response" nonRepudiation="true">
      <As4Reliability maxRetries="0" interval="5" shutdown="10" duplicateElimination="true"
    </As4Receipt>
  </Leg>
</MEP>
</Binding>
<Binding name="receiverCN_senderCN_urn:www.cenbii.eu:profile:bii04:ver1.0_urn:oasis:names:specificat
  <MEP name="One-Way/Push">

```

3.2.2.1. Firewall settings

Depending on your organization, the firewall settings might prevent you from exchanging messages from your local JBoss instance and the remotely deployed Virtual box.

To test if a ports is blocked or open, you can use the tool "telnet" and run the command "telnet <server_ip> <port>". If the port is blocked then you need to open it.

The following ports must be open the **remote** machine (TCP protocol):

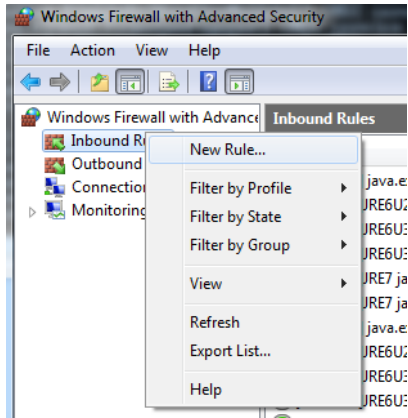
- 8080 (HTTP port)
- 5445 (JMS messaging)
- 5455 (JMS messaging)
- 22 (only needed if you want to connect with SSH to the Virtual box)
- 4406 (MySQL port)
- 4447 (JBoss remoting interface)
- 9990 (JBoss admin console)

The following ports must be open on the **local** machine (TCP protocol) :

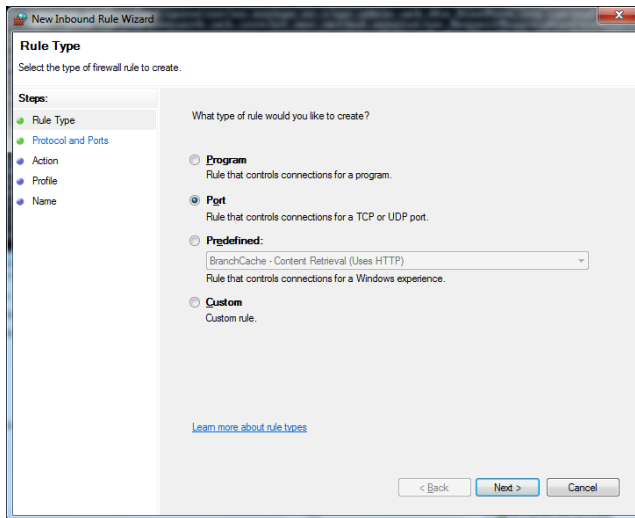
- 8080 (HTTP port)
- 5445 (JMS messaging)
- 5455 (JMS messaging)
- 4447 (JBoss remoting interface)

If your computer is protected by the Windows firewall, this is how you can open a port:

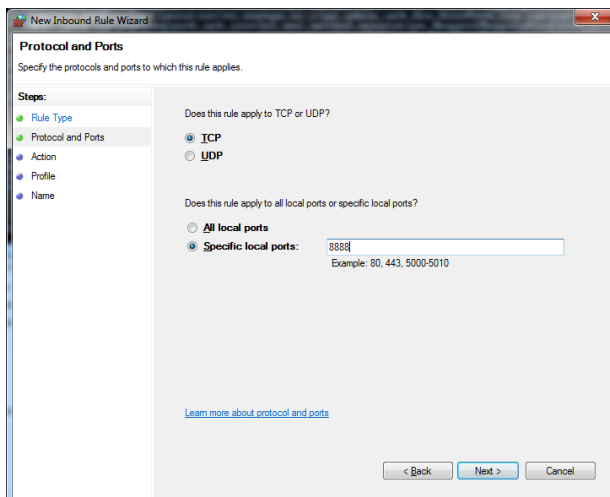
1. Open the "Windows Firewall with Advanced Security window": click on Start >Control Panel>System and Security>Windows Firewall and then click on "Advanced Settings".
2. Right click on "Inbound Rules > New Rule..."



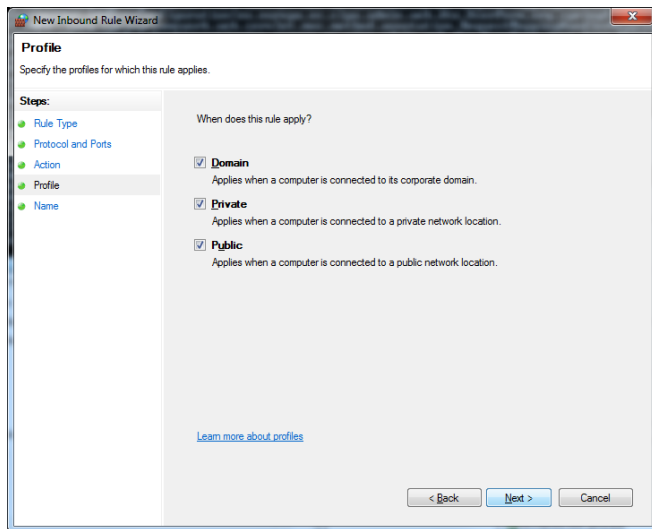
3. Select "Port" and click on "Next":



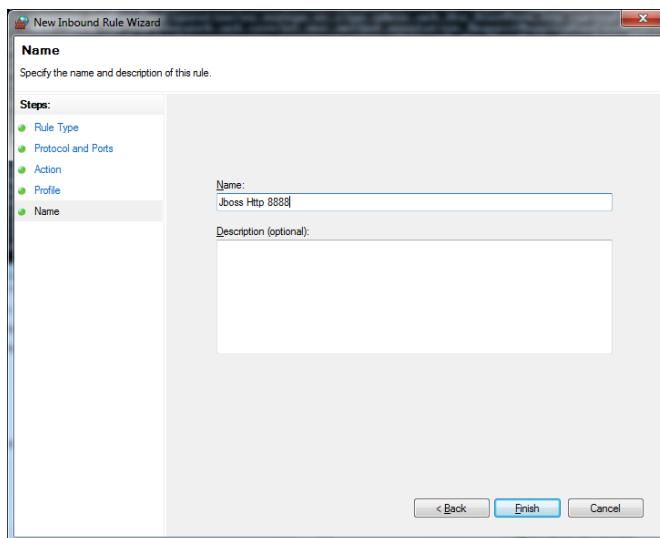
4. Enter a Specific local port (for example 8080) and click on "Next":



5. Click on "Next":



6. Name the rule on click on "Finish":



4. TESTING

To send messages, you can follow the instructions of the "Testing guide".

5. ANNEX

Parameter	JBoss local instance	VirtualBox deployed locally	VirtualBox deployed remotely on a machine with IP "I.J.K.L"
IP	localhost	192.168.56.11	I.J.K.L
Connector base url	http://localhost:8080/connector	http://192.168.56.11:8080/connector	http://I.J.K.L:8080/connector
Admin console base url	http://localhost:8080/connector-admin	http://192.168.56.11:8080/connector-admin	http://I.J.K.L:8080/connector-admin
Domibus base url	http://localhost:8080/domibus	http://192.168.56.11:8080/domibus	http://I.J.K.L:8080/domibus
Browser	http://localhost:8080/browser	http://192.168.56.11:8080/browser	http://I.J.K.L:8080/browser
Databases	Edelivery database jdbc:mysql//localhost:3306/?user=edelivery&password=edelivery	Edelivery database jdbc:mysql//192.168.56.11:3306/?user=edelivery&password=edelivery	Edelivery database jdbc:mysql//I.J.K.L:4406/?user=edelivery&password=edelivery
	Etrustex database jdbc:mysql//localhost:3306/?user=trustex_user&password=trustex_passw	Etrustex database jdbc:mysql//192.168.56.11:3306/?user=trustex_user&password=trustex_passw	Etrustex database jdbc:mysql//I.J.K.L:4406/?user=trustex_user&password=trustex_passw
		root password for MySQL : adminuser	root password for MySQL : adminuser
OS login		Username: adminuser Password: adminuser	Username: adminuser Password: adminuser