



# Red Hat A-MQ 7.0 Interconnect

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Installing A-MQ 7.0 Interconnect

Red Hat Customer Content  
Services



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## Abstract

This guide provides guidance on installing A-MQ 7.0 Interconnect.

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# CHAPTER 1. INSTALLING A-MQ 7.0 INTERCONNECT

## 1.1. INSTALLING A-MQ 7.0 INTERCONNECT



### Note

A-MQ 7.0 Interconnect is based on Qpid Dispatch Router which is from the Apache Qpid project. The terms "Interconnect" and "router" are used interchangeably in the document.

### 1.1.1. Downloading RPM Packages

- ✦ The A-MQ 7.0 Interconnect RPM packages for RHEL 6 are available [here](#).
- ✦ The A-MQ 7.0 Interconnect RPM packages for RHEL 7 are available [here](#).

### 1.1.2. Installing A-MQ 7.0 Interconnect

As the root user, use the following command to install A-MQ 7.0 Interconnect.

```
yum install qpid-dispatch-router qpid-dispatch-tools
```



### Note

The above instructions are only for Alpha release.

### 1.1.3. Required subscriptions

To install the A-MQ 7.0 Interconnect packages on Red Hat Enterprise Linux (RHEL), you require subscriptions to both of the following Red Hat products:

- ✦ Red Hat JBoss A-MQ 7.0
- ✦ RHEL 6, or 7

### 1.1.4. RPM repositories

Enable the requisite RPM repository for your version of RHEL, as shown in the following table:

**Table 1.1. RPM Repositories for A-MQ Interconnect**

Platform Version	RPM Repository
RHEL 7	TBD

Platform Version	RPM Repository
RHEL 6	TBD

### 1.1.5. Registering your system

To install the A-MQ 7.0 Interconnect installer, first register the host system using Red Hat Subscription Manager, and subscribe to the required channels.

1. Register your system with the Content Delivery Network, entering your Customer Portal user name and password when prompted.

```
# sudo subscription-manager register
```

2. Find the entitlement pool for the A-MQ 7.0 Interconnect director.

```
# sudo subscription-manager list --available --all
```

3. Use the pool ID located in the previous step to attach the A-MQ 7.0 Interconnect entitlements for corresponding platforms.

```
# sudo subscription-manager attach --pool=<POOL_ID>
```

4. Disable all default repositories then enable the required Red Hat Enterprise Linux repositories.

```
# sudo subscription-manager repos --disable=*  
# sudo subscription-manager repos --enable=<RPM_Repository_Name>
```

5. Perform an update on your system to make sure you have the latest base system packages.

```
# sudo yum update -y  
# reboot
```

The system is now ready for the director installation.

### 1.1.6. Installing A-MQ 7.0 Interconnect

You can install A-MQ 7.0 Interconnect by using the following command:

```
yum install qpiddispatch-router qpiddispatch-tools
```

The following packages are installed:

- ✎ libqpiddispatch
- ✎ qpiddispatch-router

### 1.1.7. Starting A Service



After A-MQ 7.0 Interconnect is installed, you can run it as a service by using the following command:

```
systemctl start qdrouterd.service
```

Below is an example output when the service has started:

```
Thu Mar 10 13:59:28 2016 SERVER (info) Container Name:
Qpid.Dispatch.Router.A
Thu Mar 10 13:59:28 2016 ROUTER (info) Router started in Standalone
mode
Thu Mar 10 13:59:28 2016 AGENT (info) Activating management agent on
$management
Thu Mar 10 13:59:28 2016 ROUTER (info) In-Process Address Registered:
$management
Thu Mar 10 13:59:28 2016 ROUTER (info) In-Process Address Registered:
$management
Thu Mar 10 13:59:28 2016 ROUTER (info) Configured Address:
prefix=/closest/ phase=0 fanout=QD_SCHEMA_FIXEDADDRESS_FANOUT_SINGLE
bias=QD_SCHEMA_FIXEDADDRESS_BIAS_CLOSEST
Thu Mar 10 13:59:28 2016 ROUTER (info) Configured Address:
prefix=/multicast/ phase=0
fanout=QD_SCHEMA_FIXEDADDRESS_FANOUT_MULTIPLE
Thu Mar 10 13:59:28 2016 ROUTER (info) Configured Address:
prefix=/queue/ phase=0 fanout=QD_SCHEMA_FIXEDADDRESS_FANOUT_SINGLE
bias=QD_SCHEMA_FIXEDADDRESS_BIAS_CLOSEST
Thu Mar 10 13:59:28 2016 ROUTER (info) Configured Address:
prefix=/queue/ phase=1 fanout=QD_SCHEMA_FIXEDADDRESS_FANOUT_SINGLE
bias=QD_SCHEMA_FIXEDADDRESS_BIAS_CLOSEST
Thu Mar 10 13:59:28 2016 ROUTER (info) Configured Address:
prefix=/unicast phase=0 fanout=QD_SCHEMA_FIXEDADDRESS_FANOUT_SINGLE
bias=QD_SCHEMA_FIXEDADDRESS_BIAS_CLOSEST
Thu Mar 10 13:59:28 2016 ROUTER (info) Configured Address:
prefix=/exclusive phase=0 fanout=QD_SCHEMA_FIXEDADDRESS_FANOUT_SINGLE
bias=QD_SCHEMA_FIXEDADDRESS_BIAS_CLOSEST
Thu Mar 10 13:59:28 2016 ROUTER (info) Configured Address:
prefix=/broadcast phase=0 fanout=QD_SCHEMA_FIXEDADDRESS_FANOUT_MULTIPLE
Thu Mar 10 13:59:28 2016 ROUTER (info) Configured Address: prefix=/
phase=0 fanout=QD_SCHEMA_FIXEDADDRESS_FANOUT_MULTIPLE
Thu Mar 10 13:59:28 2016 CONN_MGR (info) Configured Listener:
0.0.0.0:amqp role=normal
Thu Mar 10 13:59:28 2016 SERVER (info) Operational, 4 Threads Running
```

From the above example output, the router instance is named Qpid.Dispatch.Router. The instance is using four threads for handling messages traffic and all other internal operations. This indicates A-MQ 7.0 Interconnect installation is successful.