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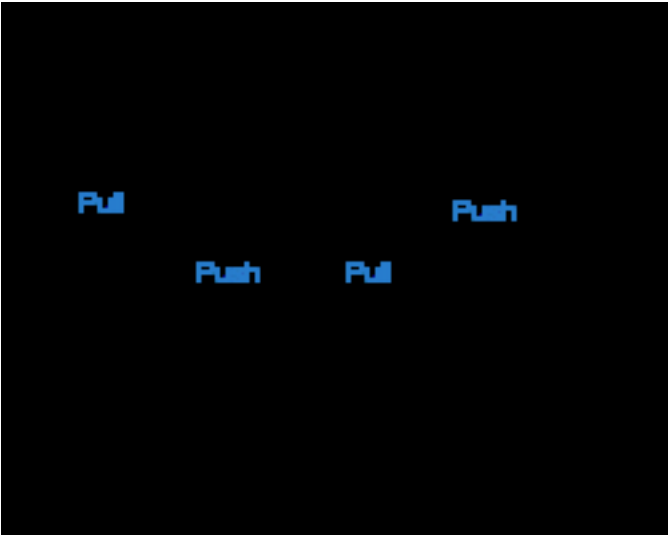
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Chapter 1. Quick Start: Multi-Homed Demo

1.1. Setup

Open the web console and press the  button.

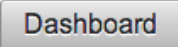

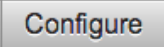



What's created ...



1.2. Pulling Data

- **Create Data In Corp For Stores To Pull**

Execute the following SQL statements in the

     tab for
 using the "run as script"  button.

```
insert into item (item_id, name) values (110000055, 'Soft Drink');  
insert into item_selling_price (item_id, store_id, price) values (110000055, '001', 0.65);  
insert into item_selling_price (item_id, store_id, price) values (110000055, '002', 1.00);
```

- **Verify Through Outgoing Batches**

- DATA
- Unsent Summary
- Outgoing Loads
- Outgoing Batches**
- Incoming Batches
- Staging Area

that the data was batched.

The screenshot shows the 'Outgoing Batches' interface. It features three filter panels: 'Channels' with options like 'config', 'filesync_reload', 'item', 'reload', 'sale_transaction', and 'heartbeat'; 'Status' with options like 'Ok', 'Error', 'Request', 'New', 'Querying', and 'Sending'; and 'Nodes' with options 'Unrouted', '001', and '002'. A 'Show All' checkbox is checked, and it indicates 'Displayed 2' items. Below the filters is a table with the following data:

Batch Id	Node Id	Channel Id	Status	Data Event Count
8	002	item	Ok	2
7	001	item	Ok	2

• Verify Through Logging

Verify in the **Dashboard** **Manage** **Configure** **Explore** **Help** tab under logging

- SYSTEM
- JVM Properties
- JVM Threads
- Logging**

that the data was pulled.

```
[corp-000-job-3] Routed 4 data events in 14 ms
[store-002-pull-1] Pull data received from corp:000:000. 2 rows and 1 batches were processed
[store-001-pull-1] Pull data received from corp:000:000. 2 rows and 1 batches were processed
```

• Verify Through SQL

Verify in the **Dashboard** **Manage** **Configure** **Explore** **Help** tab for

by executing the following sql.

```
select * from item_selling_price
```

• Verify in the **Dashboard** **Manage** **Configure** **Explore** **Help** tab for node


by executing the following sql.

```
select * from item_selling_price
```

1.3. Pushing Data

- **Create Data In A Store To Push to Corp**

Execute the following SQL statements in the

Dashboard Manage Configure **Explore** Help tab for
store-001 Logout using the "run as script"  button.

```
insert into sale_transaction (tran_id, store_id, workstation, day, seq)
  values (1000, '001', '3', '2014-03-21', 100);

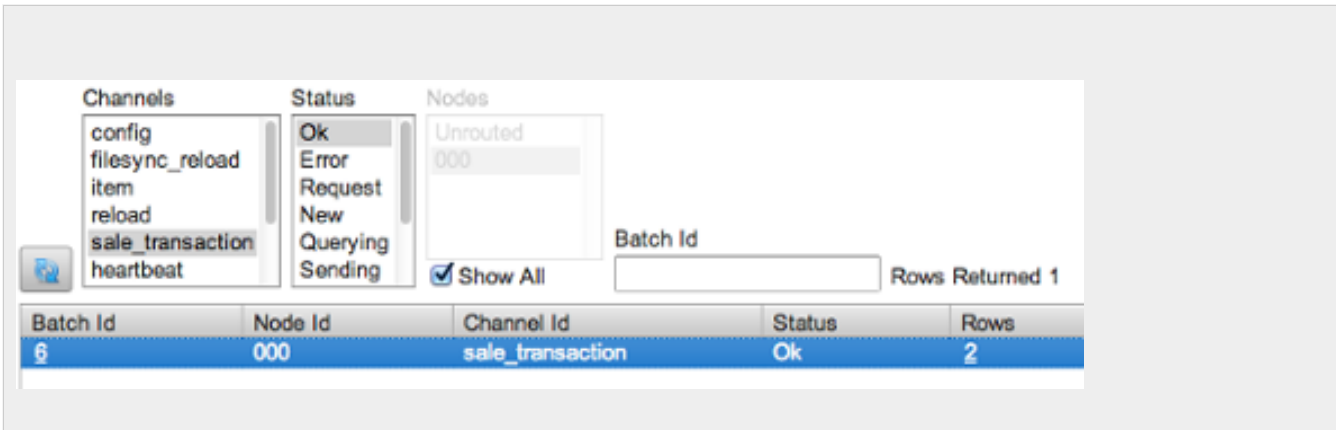
insert into sale_return_line_item (tran_id, item_id, price, quantity)
  values (1000, 110000055, 0.65, 1);
```

- **Verify Through Outgoing Batches**

Verify in the Dashboard **Manage** Configure Explore Help tab under outgoing batches

DATA that the data was batched.

- Unsent Summary
- Outgoing Loads
- Outgoing Batches**
- Incoming Batches
- Staging Area



Channels: config, filesync_reload, item, reload, sale_transaction, heartbeat

Status: Ok, Error, Request, New, Querying, Sending

Nodes: Unrouted, 000

Batch Id: Rows Returned 1

Batch Id	Node Id	Channel Id	Status	Rows
6	000	sale_transaction	Ok	2

- **Verify Through Logging**

SYSTEM that the data was pushed.

- JVM Properties
- JVM Threads
- Logging**

```
[store-001-job-14] Routed 2 data events in 9 ms  
[store-001-push-1] Push data sent to corp:000:000  
[store-001-push-1] Pushed data to corp:000:000. 2 data and 1 batches were processed
```

- **Verify Through SQL**

Verify in the Dashboard Manage Configure **Explore** Help tab for node Logout by executing the following sql.

```
select * from sale_transaction;
```

```
select * from sale_return_line_item;
```

Congratulations! You have completed the "Quick Start: Multi-Homed Demo".

Continue to browse through the demo configuration to see how basic triggers, routers, group links and more are setup. When you are ready proceed to uninstall the demo and begin your own configuration.

1.4. Uninstall Demo


Select the corp-000 node from Dashboard **Manage** Configure Explore Help tab under nodes

and *right click* on it to see uninstall option. Click uninstall.

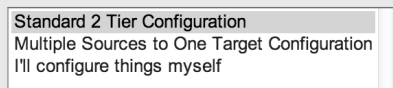
- ACTIVITY**
- Processes
- Nodes**
- Jobs
- Pull Threads

Chapter 2. Tutorial: Two Tier

2.1. Create Master Node

Open the web console and press the  button.

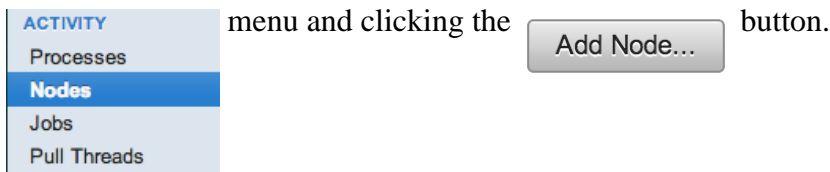
- Enter your database information for your master node.

- Select standard two tier configuration 

- Select default sync url
- Choose a password for your admin user for the pro console
- Login

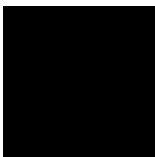
2.2. Add A Node

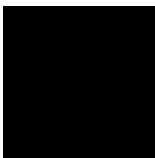
- Add a node through the  tab using the



The screenshot shows a navigation menu with the following items: **ACTIVITY**, Processes, **Nodes** (highlighted), Jobs, and Pull Threads. To the right of the menu is a button labeled "Add Node...".

- Decide if you are going to setup a multi-homed or remote node.

Click the  button for a multi-homed node (runs in same instance of Symmetric DS).

Click the  button for a remote node (runs in different instance of Symmetric DS).



Tip

Performance will increase the closer the nodes are to their respective databases. So

typically multiple instances of SymmetricDS are installed on or near each database instance. Once the new installation is finished navigate to the web console on the new installation to complete the remote node setup.

- Enter your database information for your node.
- Set the registration url to the sync url of your master node (created above)
- Select the client group
- Select an external id (usually a store number or some way to identify the node)
- Select default sync url

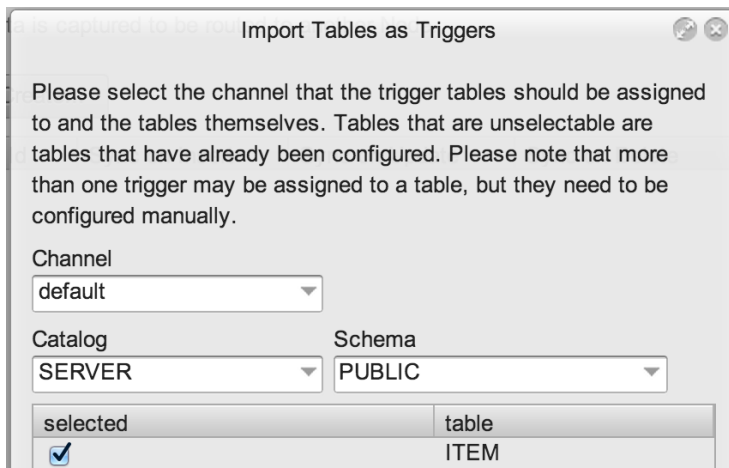
2.3. Setup a Table for Synchronization

- **Create a Trigger**


From the  tab select  and

click the  button.

Select a table to synch.




- **Link Routers**

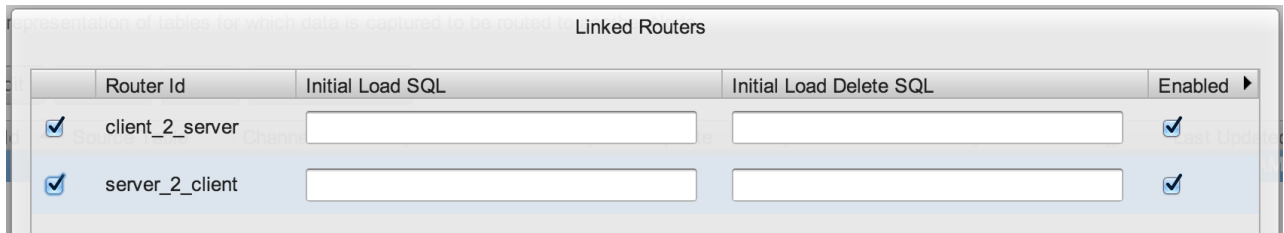
Select the row for the table that was just added and click the  button.



Tip

Tables that have **NOT** yet been linked will be represented by the  icon.


Select the router(s) to be used.



Router Id	Initial Load SQL	Initial Load Delete SQL	Enabled
<input checked="" type="checkbox"/> client_2_server	<input type="text"/>	<input type="text"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/> server_2_client	<input type="text"/>	<input type="text"/>	<input checked="" type="checkbox"/>



Tip

Tables that have been linked will be represented by the  icon.

- **Verify**

Insert, update, or delete into the table that is now setup in one node.

Check to see that the change was captured and sent to the other node.

Congratulations! You have completed the "Quick Start: Two Tier".

