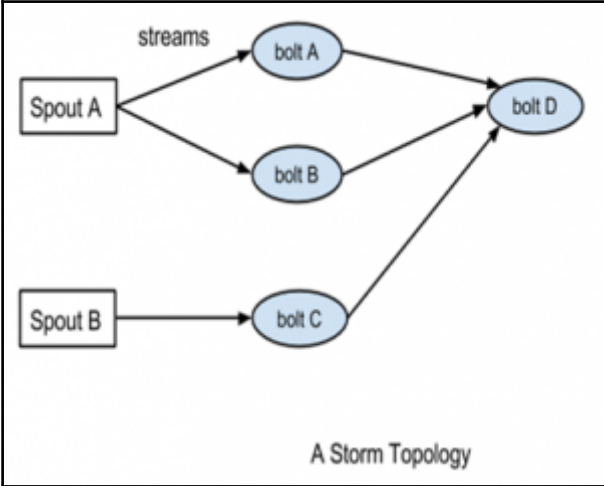
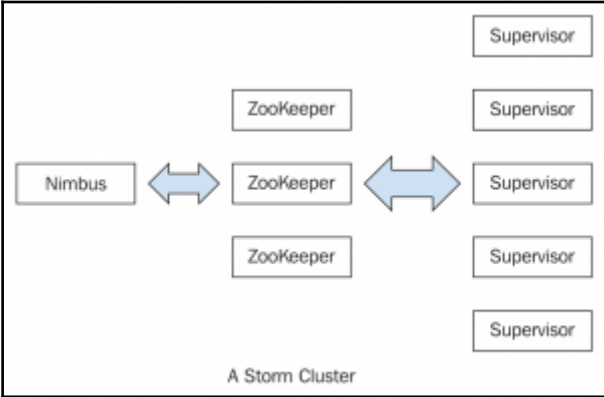
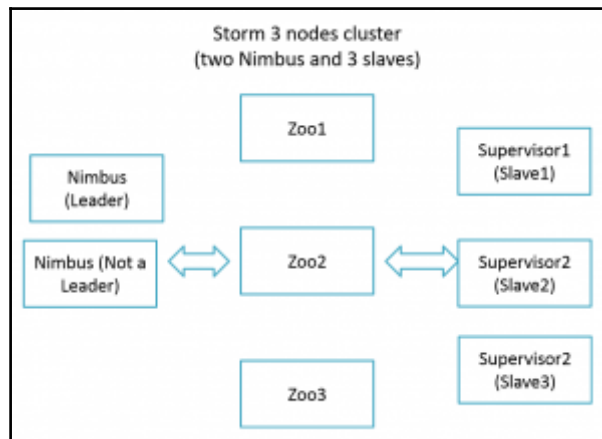
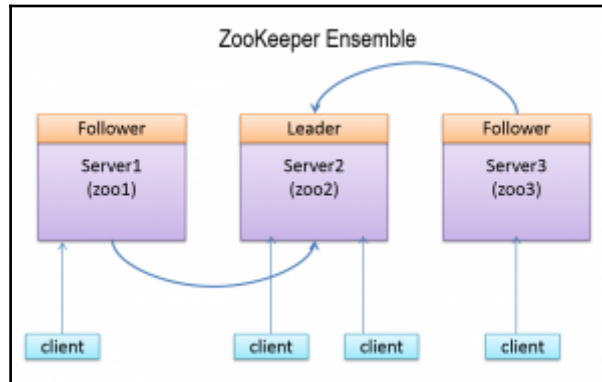


# Chapter 1: Real-Time Processing and Storm Introduction



# Chapter 2: Storm Deployment, Topology Development, and Topology Options





**Topology actions**

Actions: Dashboard, Resources, All, History, Topology, Change topology

**Topology stats**

Resource	Used	Requested	Requested Memory (MB)	Allocated	Free
Map-01	100	100	0		
Map-02	100	100	0		
Map-03	100	100	0		
Reduce	100	100	0		

**Spouts (All time)**

Search: \_\_\_\_\_

Spout	Executions	Tasks	Completed	Completed Memory (MB)	Allocated	Free	QueueSize	QueueFull	QueueTime
InputSpout	2	2	100	1000	0	0			

Showing 1 of 1 of 1 records.

**Boles (All time)**

Search: \_\_\_\_\_

Bole	Executions	Tasks	Completed	Completed Memory (MB)	QueueSize	QueueFull	QueueTime	QueueFull	QueueTime
InputBole	2	2	100	1000	0	0			

Showing 1 of 1 of 1 records.

**Topology Visualization**

View visualization

**Topology Configuration**

View configuration

**Storm UI**

Storm UI: Storm UI (1940-03-01) [Refresh] Storm UI (1940-03-01)

**Topology summary**

Name	ID	Status	Topology	Host address	Replications	Host count	Expected count	Assigned Memory (MB)	Available size
storm-ui-topology-1-1940-03-01	storm-ui-topology-1-1940-03-01	Up	Running	194.40.1.1	1	1	1	256	

**Topology actions**

Actions: Dashboard, Resources, All, History, Topology, Change topology

**Topology actions**

Actions: Dashboard, Resources, All, History, Topology, Change topology

**Change Log Level**

Modify the log level for topology. Note that applying a setting updates the log level in the system. To configure the log level, use the same ID as the topology.

Log level: [INFO] [None] [Debug] [Error] [Warn] [Fatal] [Trace]

Topology ID: [storm-ui-topology-1-1940-03-01]

Apply [Apply]

**Topology stats**

Resource	Used	Requested	Requested Memory (MB)	Allocated	Free
Map-01	100	100	0		
Map-02	100	100	0		
Map-03	100	100	0		
Reduce	100	100	0		

**Storm UI**

Storm UI: Storm UI (1940-03-01) [Refresh] Storm UI (1940-03-01)

**Topology summary**

Name	ID	Status	Topology	Host address	Replications	Host count	Expected count	Assigned Memory (MB)	Available size
storm-ui-topology-1-1940-03-01	storm-ui-topology-1-1940-03-01	Up	Running	194.40.1.1	1	1	1	256	

**Topology actions**

Actions: Dashboard, Resources, All, History, Topology, Change topology

**Topology actions**

Actions: Dashboard, Resources, All, History, Topology, Change topology

**Change Log Level**

Modify the log level for topology. Note that applying a setting updates the log level in the system. To configure the log level, use the same ID as the topology.

Log level: [INFO] [None] [Debug] [Error] [Warn] [Fatal] [Trace]

Topology ID: [storm-ui-topology-1-1940-03-01]

Apply [Apply]

**Topology actions**

[Home](#) | [Overview](#) | [Resources](#) | [Help](#) | [Help Topics](#) | [Change Log Level](#)

**Change Log Level**

Use the Log Level to configure the logging level for the system. To configure the log level, use the table below.

Logger	Level	Filter (regex)	Export as	Actions
ROOT	DEBUG			<a href="#">Apply</a> <a href="#">Cancel</a>
org.apache.hadoop.hdfs	INFO			<a href="#">Apply</a>

**Topology actions**

[Home](#) | [Overview](#) | [Resources](#) | [Help](#) | [Help Topics](#) | [Change Log Level](#)

**Change Log Level**

Use the Log Level to configure the logging level for the system. To configure the log level, use the table below.

Logger	Level	Filter (regex)	Export as	Actions
ROOT	DEBUG			<a href="#">Apply</a>

**Topology stats**

Metric	Value	Unit	Timestamp	Export as	Actions
cpu	100	%			
mem	100	%			
disk	100	%			
net	100	%			

**2018-09-20 10:00:00**

The configuration of the logging level has been updated.

[Apply](#) [Cancel](#)

**Topology summary**

Name	ID	Host	IP	OS	Mem	CPU	Net	Disk	Health	App	Version	Created	Updated	Deleted	Refresh
hadoop	1	192.168.1.1	192.168.1.1	Ubuntu	100%	100%	100%	100%	OK	hadoop	2.7.0	2018-09-20 10:00:00	2018-09-20 10:00:00		<a href="#">Refresh</a>

**Topology actions**

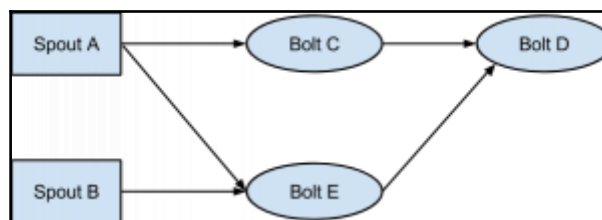
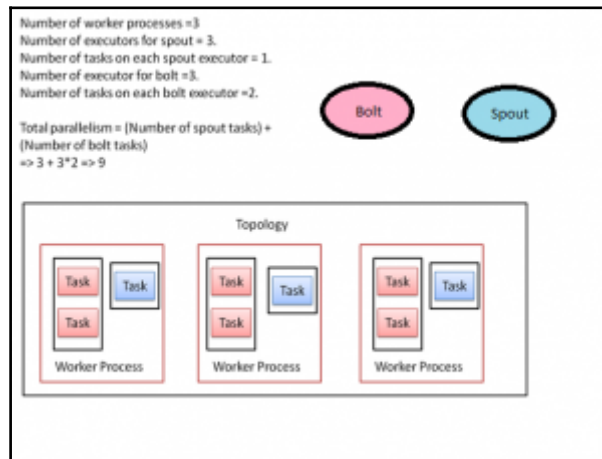
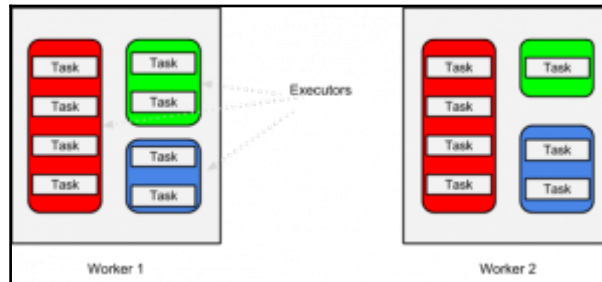
[Home](#) | [Overview](#) | [Resources](#) | [Help](#) | [Help Topics](#) | [Change Log Level](#)

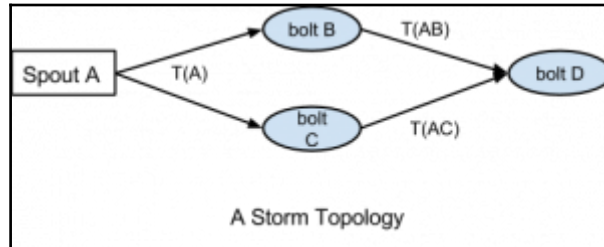
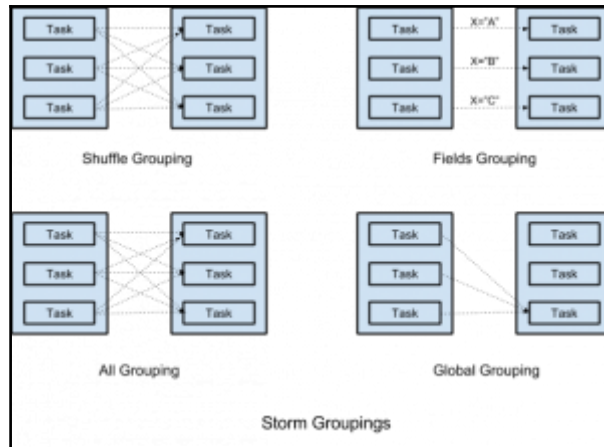
**Change Log Level**

Use the Log Level to configure the logging level for the system. To configure the log level, use the table below.

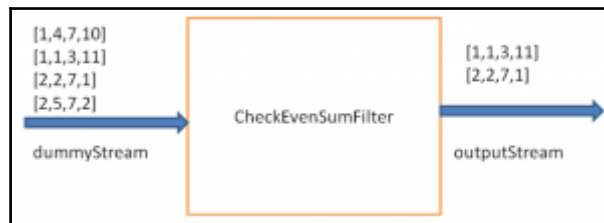
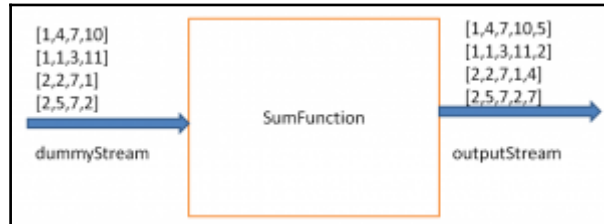
Logger	Level	Filter (regex)	Export as	Actions
ROOT	DEBUG			<a href="#">Apply</a> <a href="#">Cancel</a>
org.apache.hadoop.hdfs	INFO			<a href="#">Apply</a>

# Chapter 3: Storm Parallelism and Data Partitioning

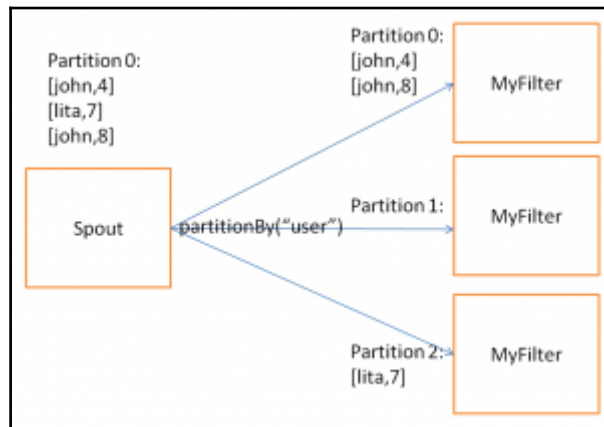
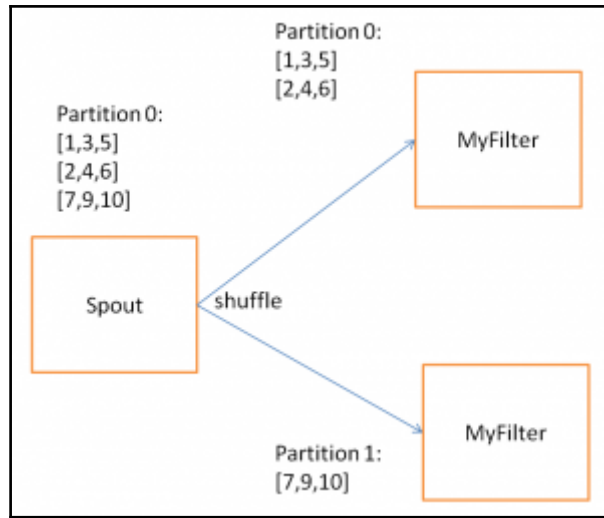


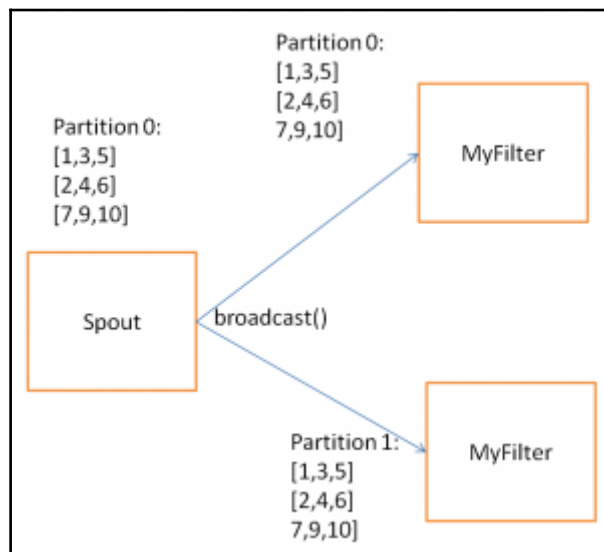
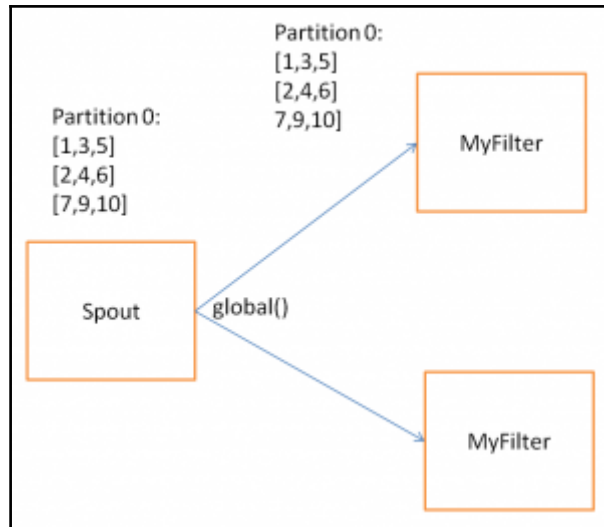


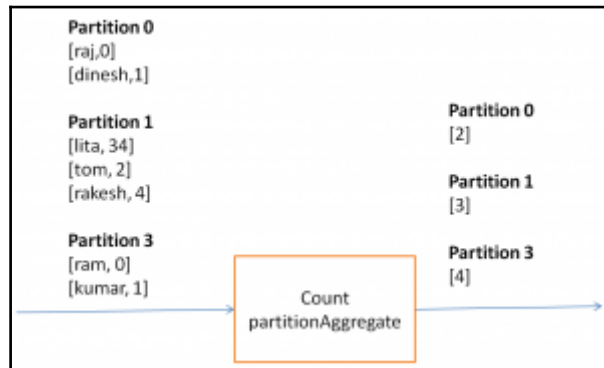
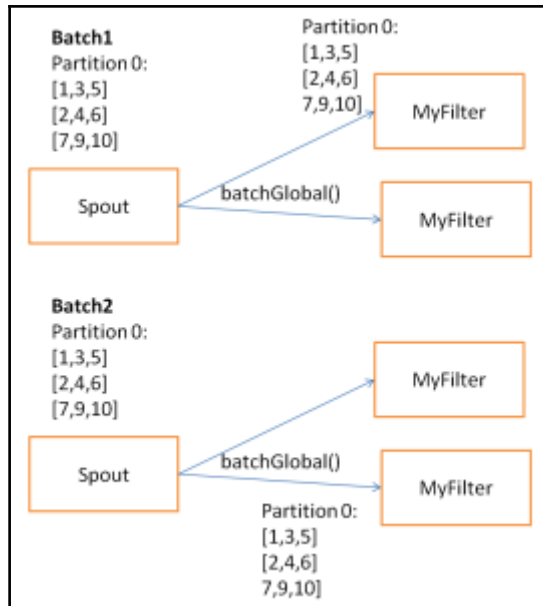
# Chapter 4: Trident Introduction

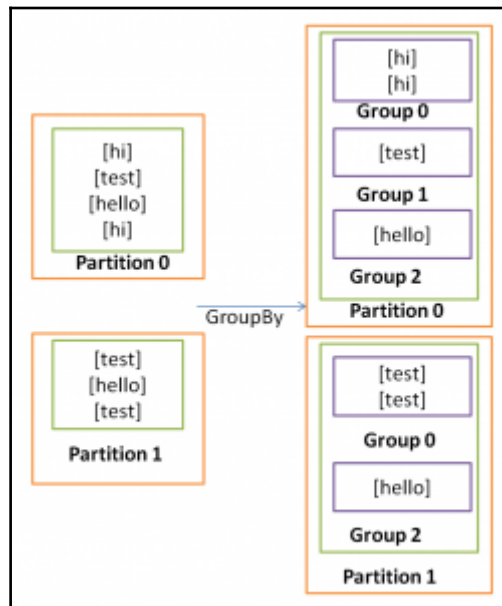
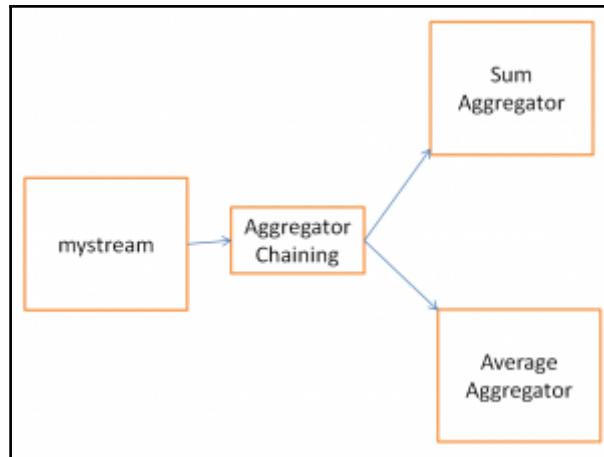








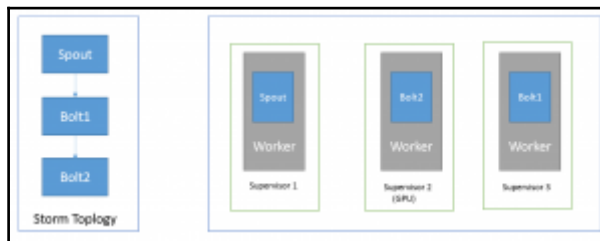
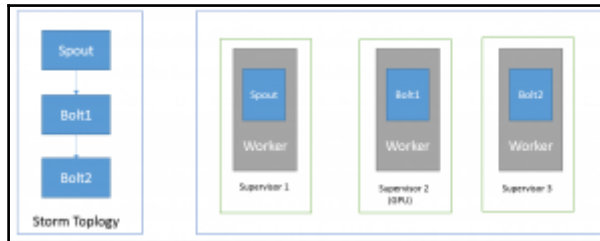
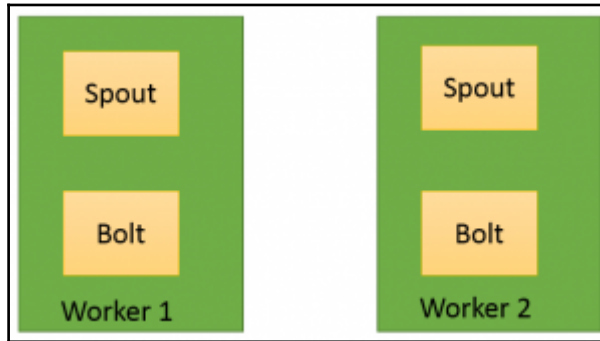






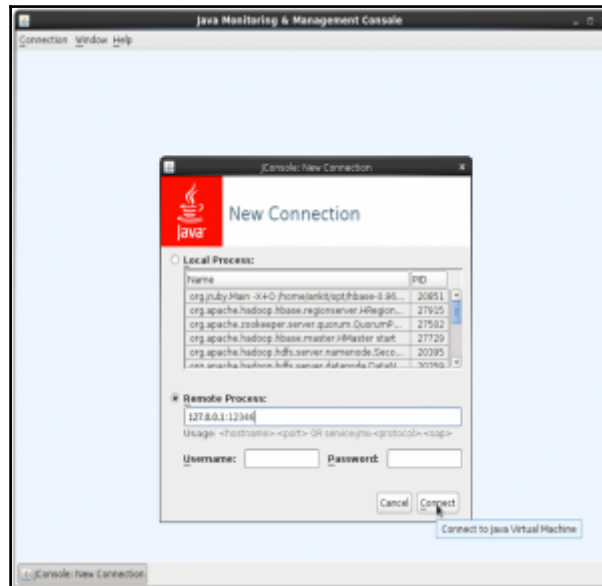
```
Console 33
<terminated> DistributedRPC [Java Application] /usr/java/jdk1.6.0_31/bin/java [Mar 23, 2014 12:03:47 PM]
4543 [Thread-37-spout1] INFO backtype.storm.daemon.executor - Opened spout spout1:12
4543 [Thread-37-spout1] INFO backtype.storm.daemon.executor - Activating spout spout1:12
4547 [Thread-7] INFO backtype.storm.daemon.executor - Loading executor __system:[-1 -1]
4547 [Thread-7] INFO backtype.storm.daemon.executor - Loaded executor tasks __system:[-1 -1]
4548 [Thread-7] INFO backtype.storm.daemon.executor - Finished loading executor __system:[-1 -1]
4548 [Thread-39__system] INFO backtype.storm.daemon.executor - Preparing bolt __system:[-1]
4550 [Thread-39__system] INFO backtype.storm.daemon.executor - Prepared bolt __system:[-1]
4553 [Thread-7] INFO backtype.storm.daemon.executor - Loading executor $mastercoord-bq0:[1 1]
4554 [Thread-7] INFO backtype.storm.daemon.executor - Loaded executor tasks $mastercoord-bq0:[1 1]
4555 [Thread-41-$mastercoord-bq0] INFO backtype.storm.daemon.executor - Opening spout $mastercoord-bq0:1
4555 [Thread-7] INFO backtype.storm.daemon.executor - Finished loading executor $mastercoord-bq0:[1 1]
4555 [Thread-7] INFO backtype.storm.daemon.worker - Launching receive-thread for 09e01e9b-55fe-4027-b177-
4555 [Thread-41-$mastercoord-bq0] INFO com.netflix.curator.framework.ims.CuratorFrameworkImpl - Starting
4585 [Thread-7] INFO backtype.storm.daemon.worker - Worker has topology config {"storm.id": "CountryCount
4586 [Thread-7] INFO backtype.storm.daemon.worker - Worker 0011003f-0d41-40e7-a178-16079f6c9490 for site
4586 [Thread-41-$mastercoord-bq0] INFO com.netflix.curator.framework.ims.CuratorFrameworkImpl - Starting
4596 [Thread-41-$mastercoord-bq0] INFO backtype.storm.daemon.executor - Opened spout $mastercoord-bq0:1
4596 [Thread-41-$mastercoord-bq0] INFO backtype.storm.daemon.executor - Activating spout $mastercoord-bq
[{"Japan,India,Europe","Japan",42}]
[{"Japan,India,Europe","Japan",77}]
[{"Japan,India,Europe","India",86}]
[{"Japan,India,Europe","Japan",125}]
[{"Japan,India,Europe","India",135}]
[{"Japan,India,Europe","India",165}]
[{"Japan,India,Europe","India",186}]
[{"Japan,India,Europe","India",220}]
[{"Japan,India,Europe","Japan",247}]
[{"Japan,India,Europe","India",278}]
```

# Chapter 6: Storm Scheduler

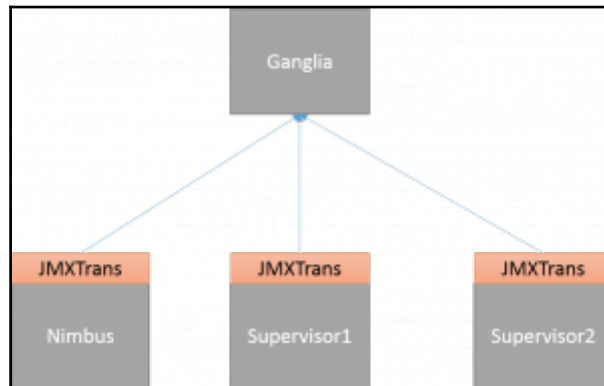
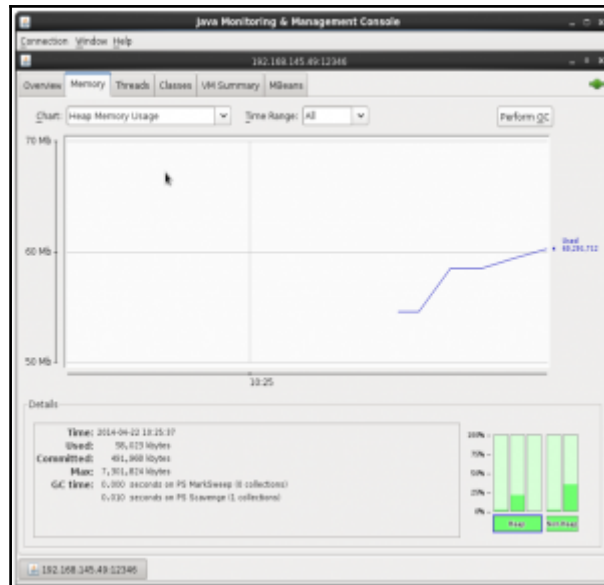


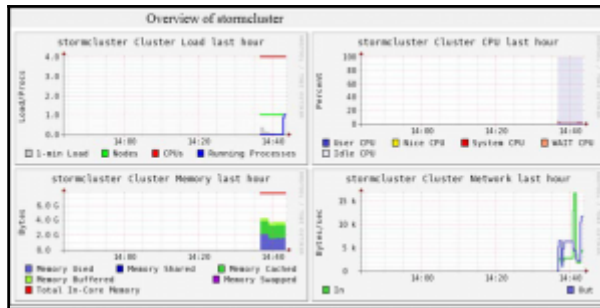
# Chapter 7: Monitoring of Storm Cluster

```
*****
Supervisor Host IP : supervisor-1
Number of used workers : 1
Number of workers : 4
Supervisor ID : 872a45ce-5f58-466c-ba57-a29799991358
Supervisor uptime in seconds : 491
*****
*****
Supervisor Host IP : supervisor-2
Number of used workers : 2
Number of workers : 4
Supervisor ID : 5400bc2e-7e74-47af-a3b8-246705c4f1e7
Supervisor uptime in seconds : 475
*****
*****
```

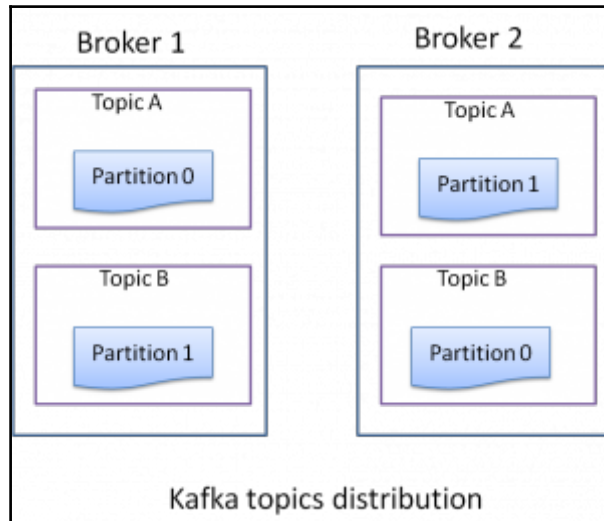
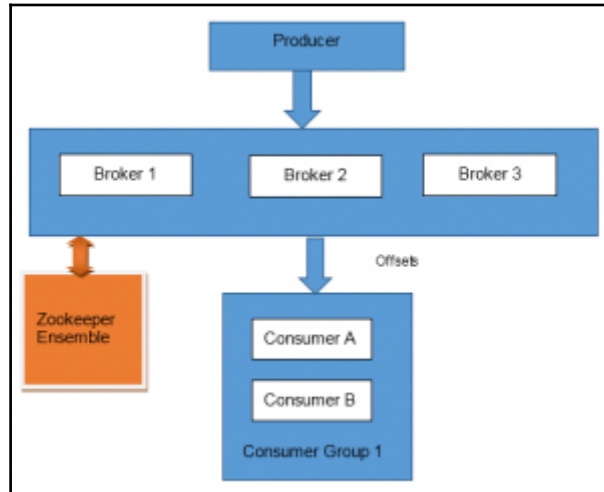


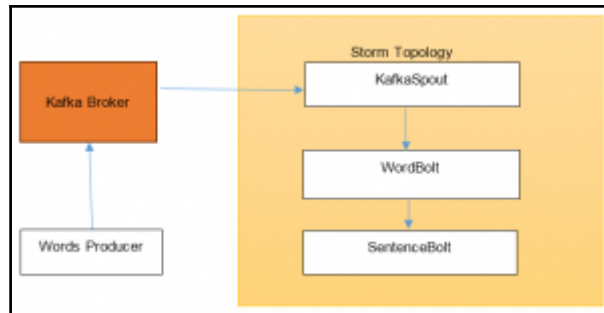




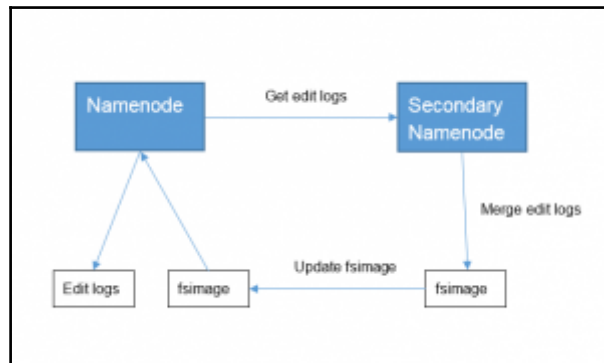
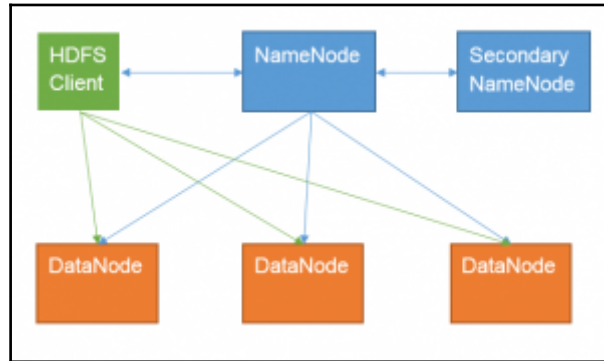


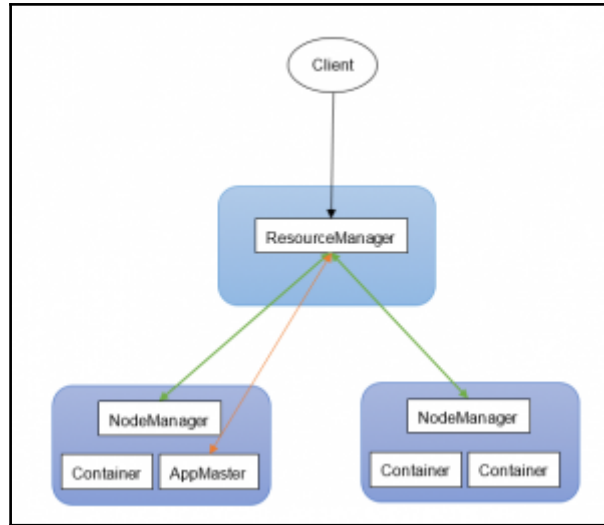
# Chapter 8: Integration of Storm and Kafka





# Chapter 9: Storm and Hadoop Integration





Hadsoop NameNode localhost:29000 - Mozilla Firefox

localhost:5007/hadoophealth.jsp

### NameNode 'localhost:29000' (active)

Started:	Tue Apr 02 10:02:51 IST 2014
Version:	2.2.0, 1529760
Compiled:	2013-10-07T06:26Z by harborxu from branch-2.2.0
Cluster ID:	CID-a28ba0d2-257d-45ae-a51c-1e4619ce437d
Block Pool ID:	BP-309238341-127.0.0.1-1397529162336

[Browse the filesystem](#)  
[NameNode Logs](#)

#### Cluster Summary

Security is OFF  
 1 files and directories, 0 blocks = 1 total.  
 Heap Memory used 61.61 MB is 58% of Committed Heap Memory 105 MB. Max Heap Memory is 1.74 GB.  
 Non Heap Memory used 24.31 MB is 93% of Committed Non Heap Memory 25.94 MB. Max Non Heap Memory is 130 MB.

Configured Capacity: 95.23 GB

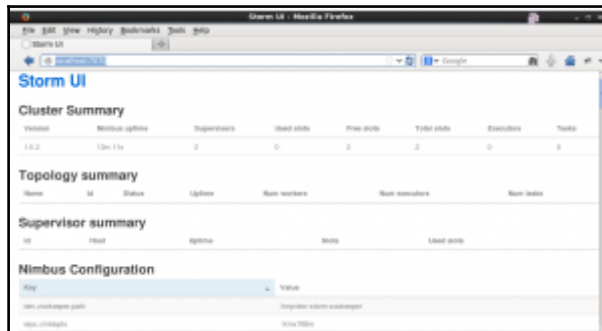
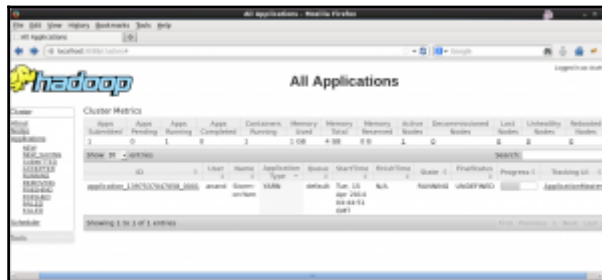
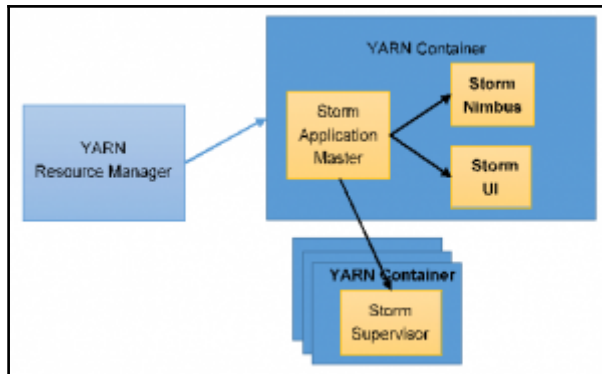
All Applications

Cluster Metrics

App	App	App	App	Containers	Memory	Memory	Memory	Active	Discommissioned	Last	Recently	Requested
Submitted	Pending	Running	Completed	Running	Used	Total	Reserved	Nodes	Nodes	Nodes	Nodes	Nodes
0	0	0	0	0	0 B	400 B	0 B	0	0	0	0	0

Showing 0 of 0 Applications

No AFS available in table



Storm UI - Monitor Overview

Storm UI

### Cluster Summary

Version	Windows uptime	Supervisors	Dead slots	Free slots	Total slots	Executors	Tasks
1.0.2	3401s	0	0	0	0	0	0

### Topology summary

Name	ID	Status	Uptime	Num workers	Num executors	Num tasks
word-count-topology-1	word-count-topology-1-1000000000	ACTIVE	21h 27m	0	0	0

### Supervisor summary

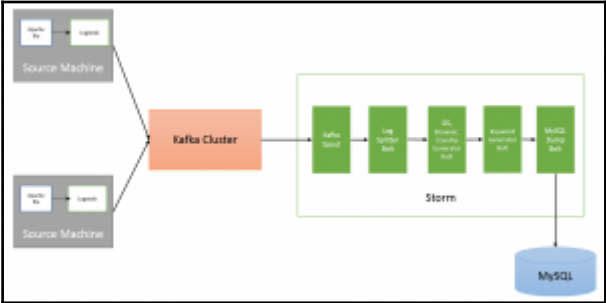
ID	Host	Uptime	Slots	Dead slots
01	host	upTime	slots	dead slots

### Nimbus Configuration

Key	Value
zookeeper.url	hadoop-nimbus-0000000000



# Chapter 11: Apache Log Processing with Storm



# Chapter 12: Twitter Tweet Collection and Machine Learning

