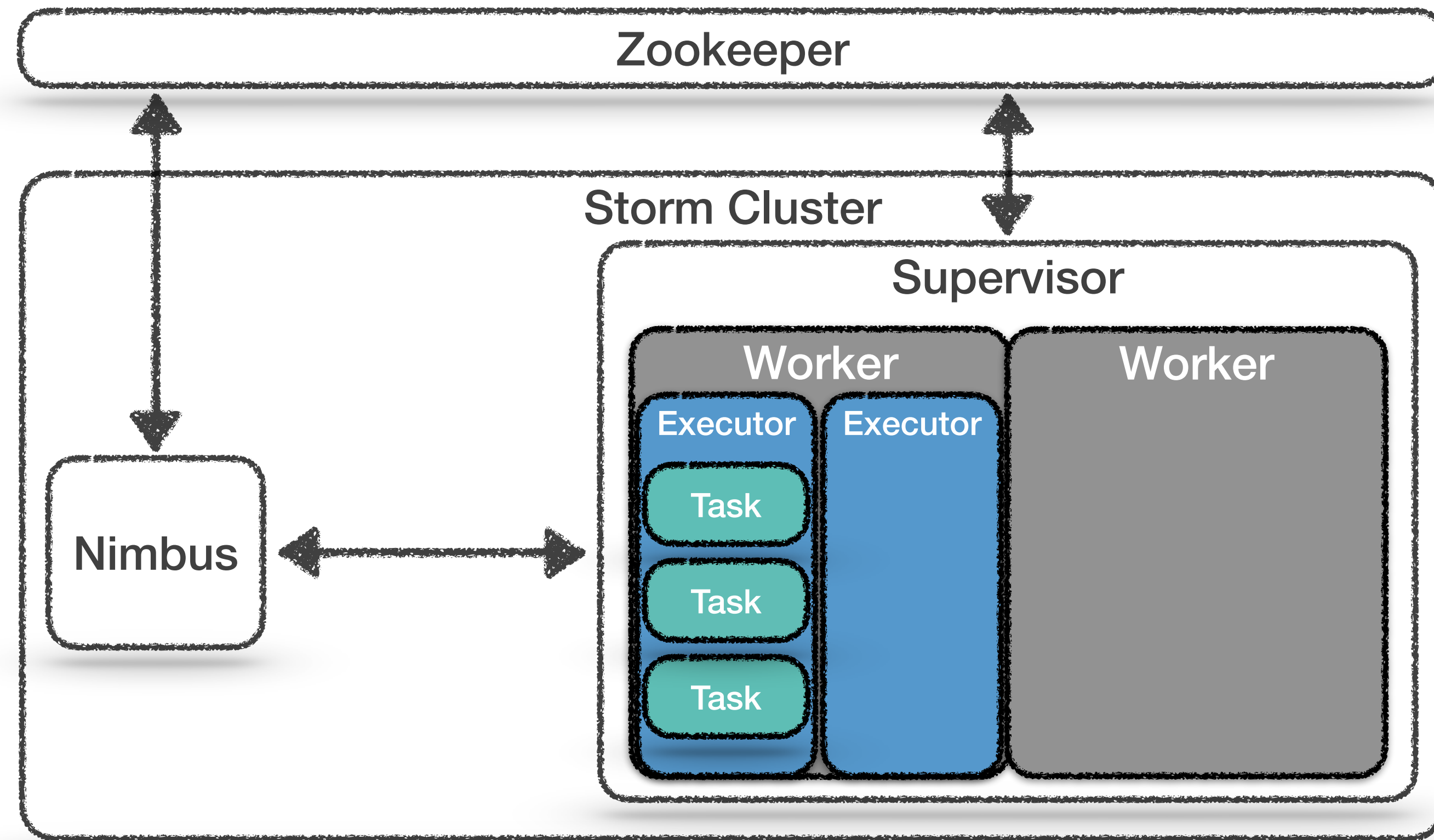


# Storm Cluster

# Storm Cluster

- Cluster Architecture;
- Nimbus Configuration;
- Supervisor Configuration;
- Storm UI Configuration;
- Exercise.

# Cluster Architecture



# Nimbus Configuration

Edit conf/storm.yaml

```
storm.zookeeper.servers:  
  - "localhost"  
storm.zookeeper.port: 2181  
storm.local.dir: "storm-local"  
nimbus.childopts: "-Xmx1024m"
```

and run the command

```
bin/storm nimbus
```

# Supervisor Configuration

Edit conf/storm.yaml

```
nimbus.seeds: ["localhost"]
supervisor.slots.ports:
  - 6700
  - 6701
  - 6702
  - 6703
supervisor.childopts: "-Xmx256m"
worker.childopts: "-Xmx%HEAP-MEM%m -XX:+PrintGCDetails -Xloggc:artifacts/gc.log ..."
```

and run the command

```
bin/storm supervisor
```

# Storm UI Configuration

Finally, run the command

```
bin/storm ui
```

and go to <http://localhost:8080>

# Storm UI

Storm UI

Cluster Summary

Version	Supervisors	Used slots	Free slots	Total slots	Executors	Tasks
2.3.0	1	0	4	4	0	0

Nimbus Summary

Search:

Host	Port	Status	Version	Uptime
localhost	6627	Leader	2.3.0	6m 23s

Showing 1 to 1 of 1 entries

Owner Summary

Search:

Owner	Total Topologies	Total Executors	Total Workers	Memory Usage (MB)
No data available in table				

Showing 0 to 0 of 0 entries

Topology Summary

Search:

Name	Owner	Status	Uptime	Num workers	Num executors	Num tasks	Replication count	Assigned Mem (MB)	Assigned Generic Resources	Scheduler Info	Topology Version	Storm Version
No data available in table												

Showing 0 to 0 of 0 entries

Supervisor Summary

Search:

Host	Id	Uptime	Slots	Used slots	Avail slots	Used Mem (MB)	Version	Blacklisted
localhost (log)	7fff6da2-0f25-4d3c-91d0-1f5de636c223-127.0.0.1	2m 52s	4	0	4	0	2.3.0	true

Showing 1 to 1 of 1 entries

Nimbus Configuration

Show 20 entries

Search:

Key	Value
blacklist.scheduler.assume.supervisor.bad.based.on.bad.slot	true
blacklist.scheduler.reporter	"org.apache.storm.scheduler.blacklist.reporters.LogReporter"
blacklist.scheduler.resume.time.secs	1800
blacklist.scheduler.strategy	"org.apache.storm.scheduler.blacklist.strategies.DefaultBlacklistStrategy"
blacklist.scheduler.tolerance.count	3

# Exercise

```
docker run --name local-zookeeper -p 2181:2181 -d zookeeper
```

Download [Storm latest version](#)

Edit in storm.yaml

Run in terminal:

- bin/storm nimbus
- bin/storm ui
- bin/storm supervisor



# Exercise

Download </storm-induction/wordCount-storm-1.0.0-SNAPSHOT.jar>

```
bin/storm jar wordCount-storm-1.0.0-SNAPSHOT.jar  
com.ppb.feeds.wordCount.storm.WordCountTopology
```

