

Building and Extending Tungsten



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Building Tungsten from Source

(Prerequisites)

```
sudo apt-get install openjdk-6-jdk
```

```
sudo apt-get install ant
```

```
sudo apt-get install subversion
```

(Build)

```
svn co http://tungsten-replicator.googlecode.com/svn/trunk/builder
```

```
cd builder
```

```
./build.sh
```



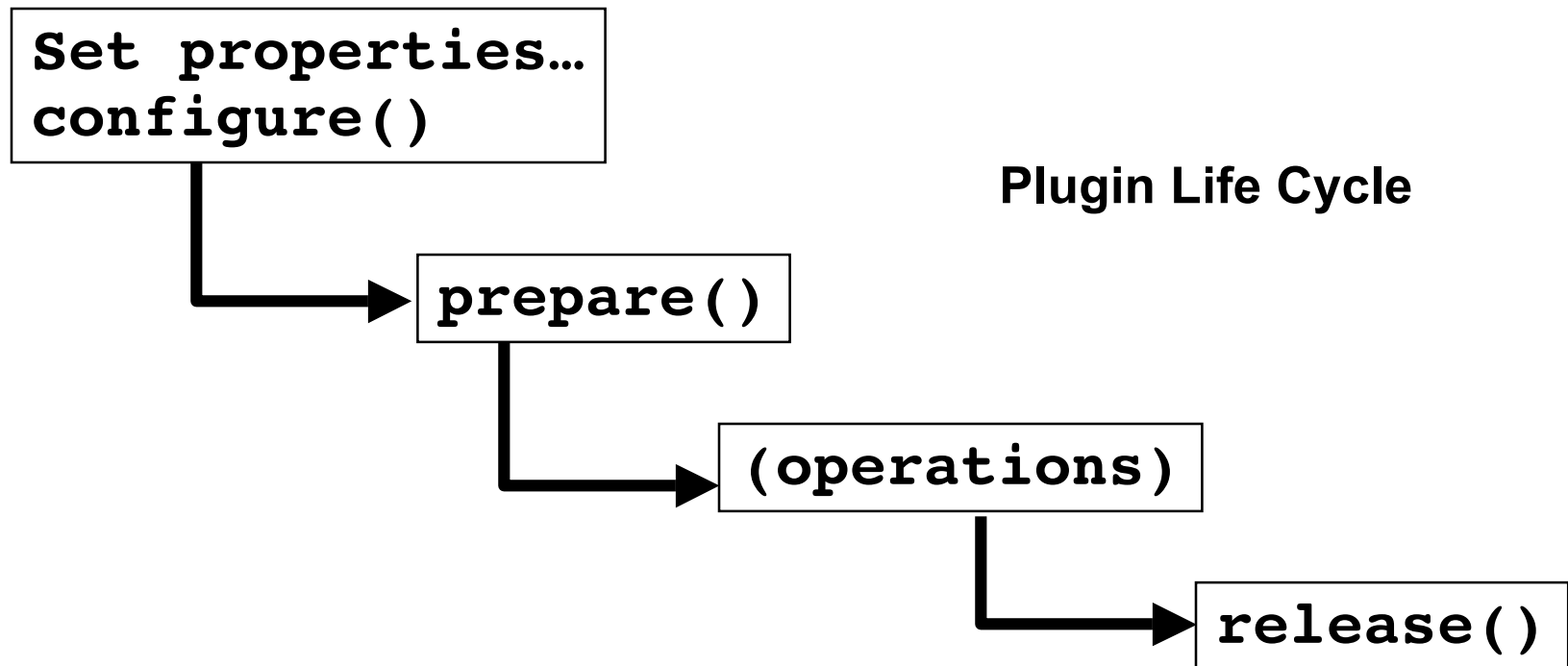
Tungsten Java Extension Points

Interface	Description
Applier	Applies transactions to a store or DBMS
BackupAgent	Performs backup / restore operations
Extractor	Extracts transactions from a store or external source
Filter	Inspects, changes, or drops transactions
Partitioner	Assigns transactions to channels for parallel apply
Store	Holds transactions temporarily or persistently
StorageAgent	Stores and retrieves backup files



ReplicatorPlugin Interface

- / All extensions implement the ReplicatorPlugin interface
- / Properties assigned from service configuration file



Extension Point Configuration

(service .properties file)

Time delay filter. Should only be used on slaves,
as it delays storage

of new events on the master. The time delay is in
seconds.

replicator.filter.delay=com.continuent.tungsten.replicator.filter.TimeDelayFilter

replicator.filter.delay.delay=300



Tungsten Script Extension Points

Interface	Description
JavaScriptFilter	Javascript transaction filtering
ScriptDumpAgent	Script-based backup/restore



Building and Extending Roadmap

- / **More scripted plugins (we like Javascript!)**
- / **Simpler replication event interfaces**
 - Currently difficult to use
- / **Different types of appliers and extractors**
 - To/From JMS queues
 - To/From NoSQL databases

