



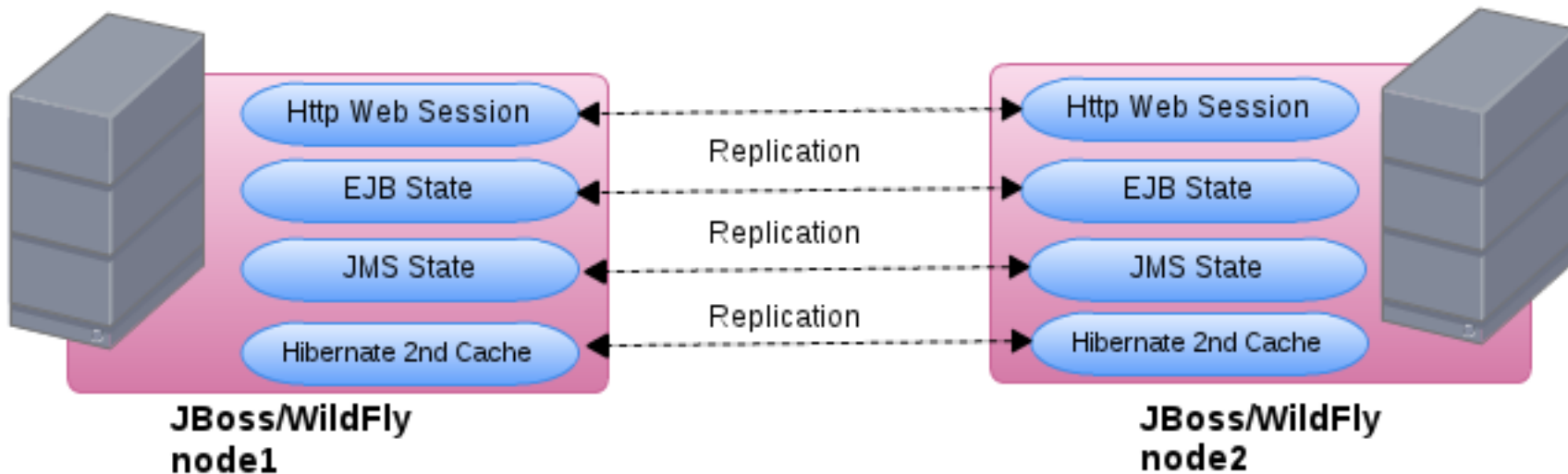
JBoss Cluster Overview for GSS

Scope of today's session

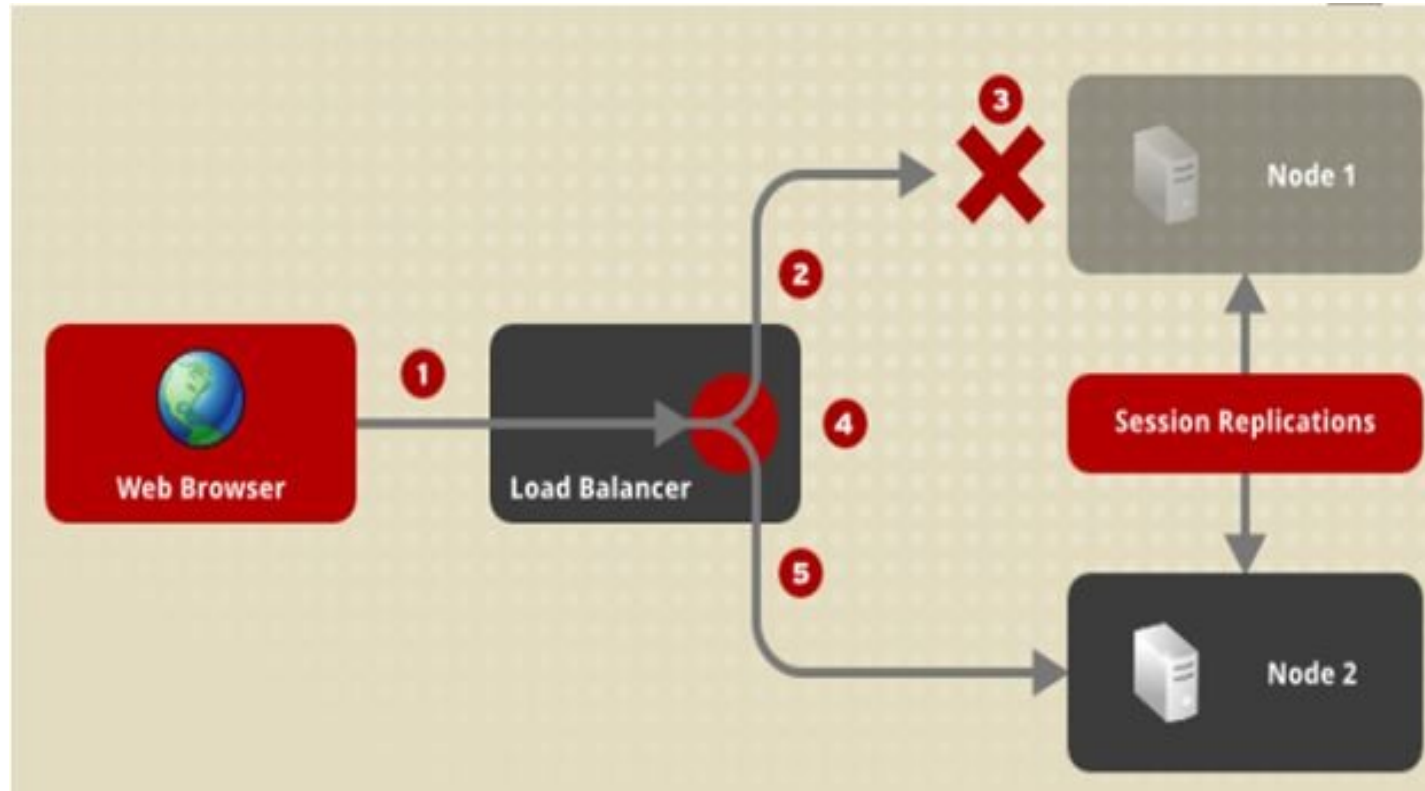
- Objective & Warming Up
- Cluster core framework – JGroups
- JPA Application Cluster
- HornetQ Messaging Cluster
- Web Application Cluster
- JBoss XPaaS, Cluster JBoss on Paas(if have time)

Objective & Warming Up

- JEE Container(JBoss) & JEE
 - Data & JPA
 - Asynchronous, Distributed & JMS, EJB
 - Web Application
- Cluster



Objective & Warming Up

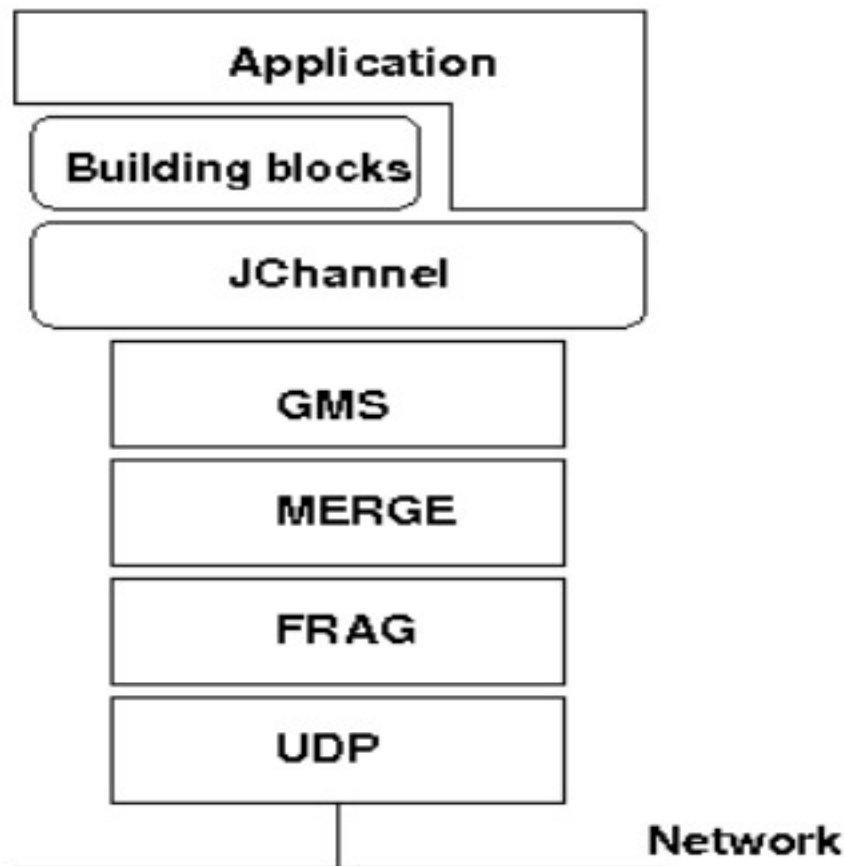


- Load Balancer
 - Httpd + mod_cluster/mod_jk/mod_proxy
- Replication
 - JGroups, JBossCache, Infinispan

Cluster core framework - JGroups

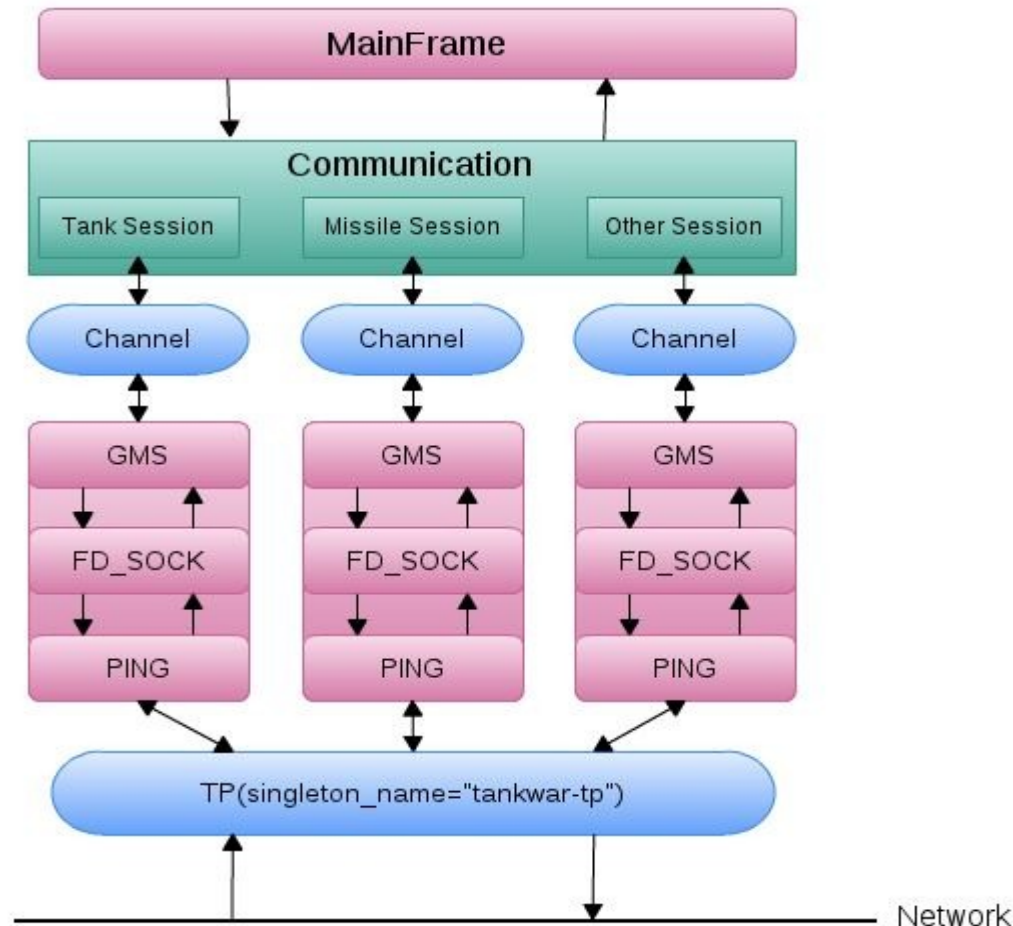
■ JGroups

- Reliable messaging(one-to-many,one-to-one)
- Flexible Protocol Stack(application requirements and network characteristics)



Cluster core framework - JGroups

■ Tank War Game & JBoss Cluster



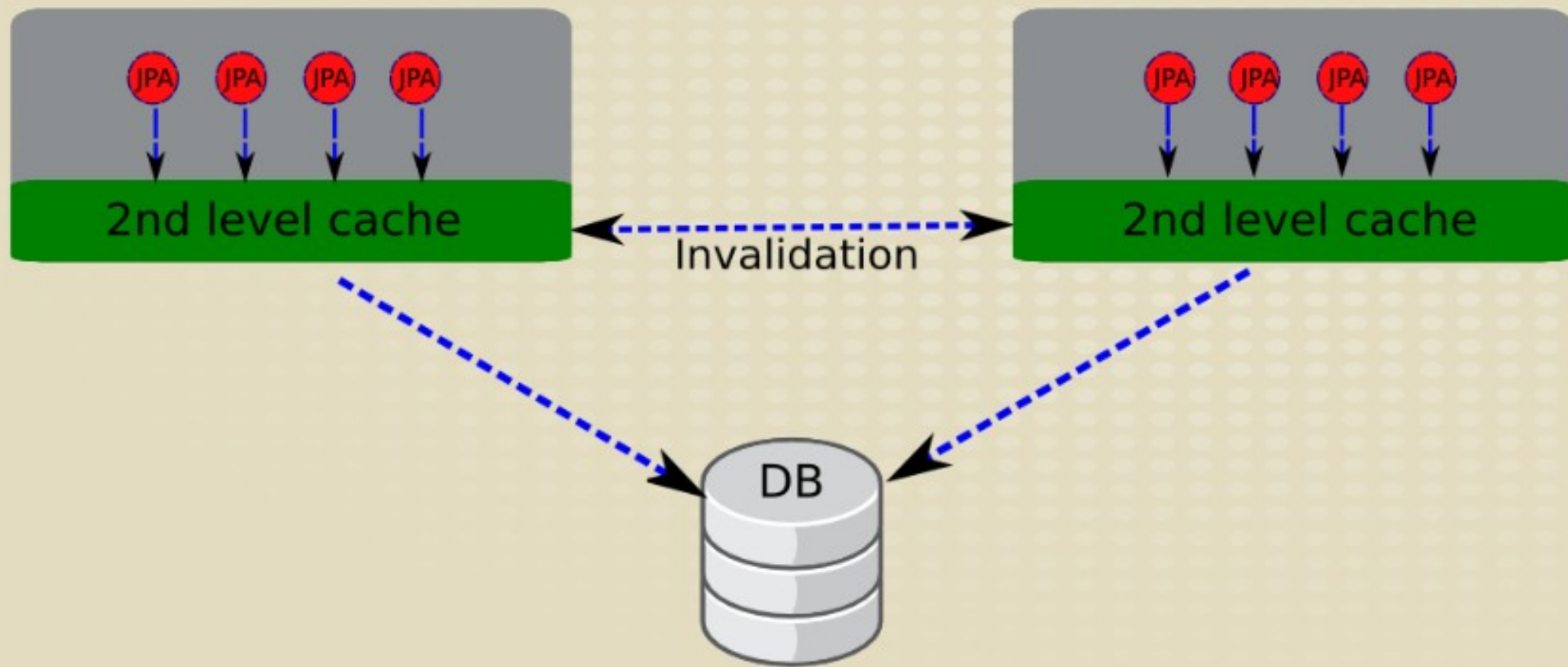
■ Run

- `./tankwar.sh -n node1`
- `./tankwar.sh -n node2 isGood`

Cluster core framework - JGroups

- More about JGroups
 - <http://www.jgroups.org/>
 - <https://github.com/kylinsoong/cluster>
 - Bela Ban's JGroups Manual 翻译

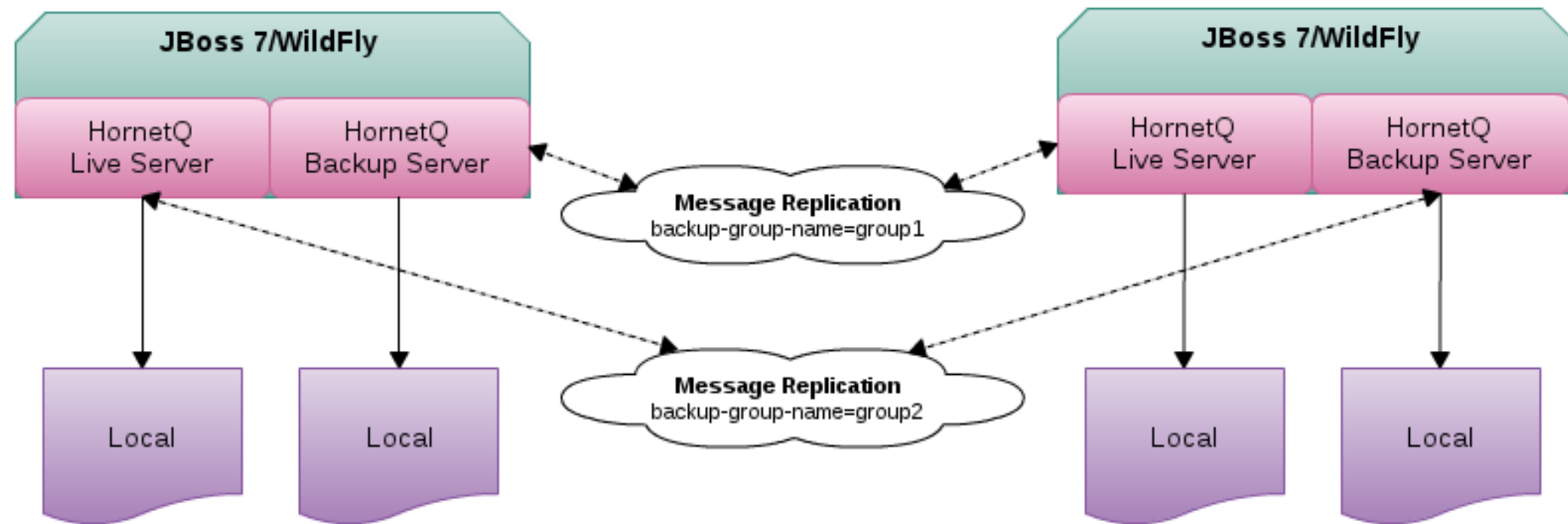
JPA Application Cluster



■ Invalidation

- `./dataGrid.sh -c infinispan-invalidation.xml`

HornetQ Messaging Cluster

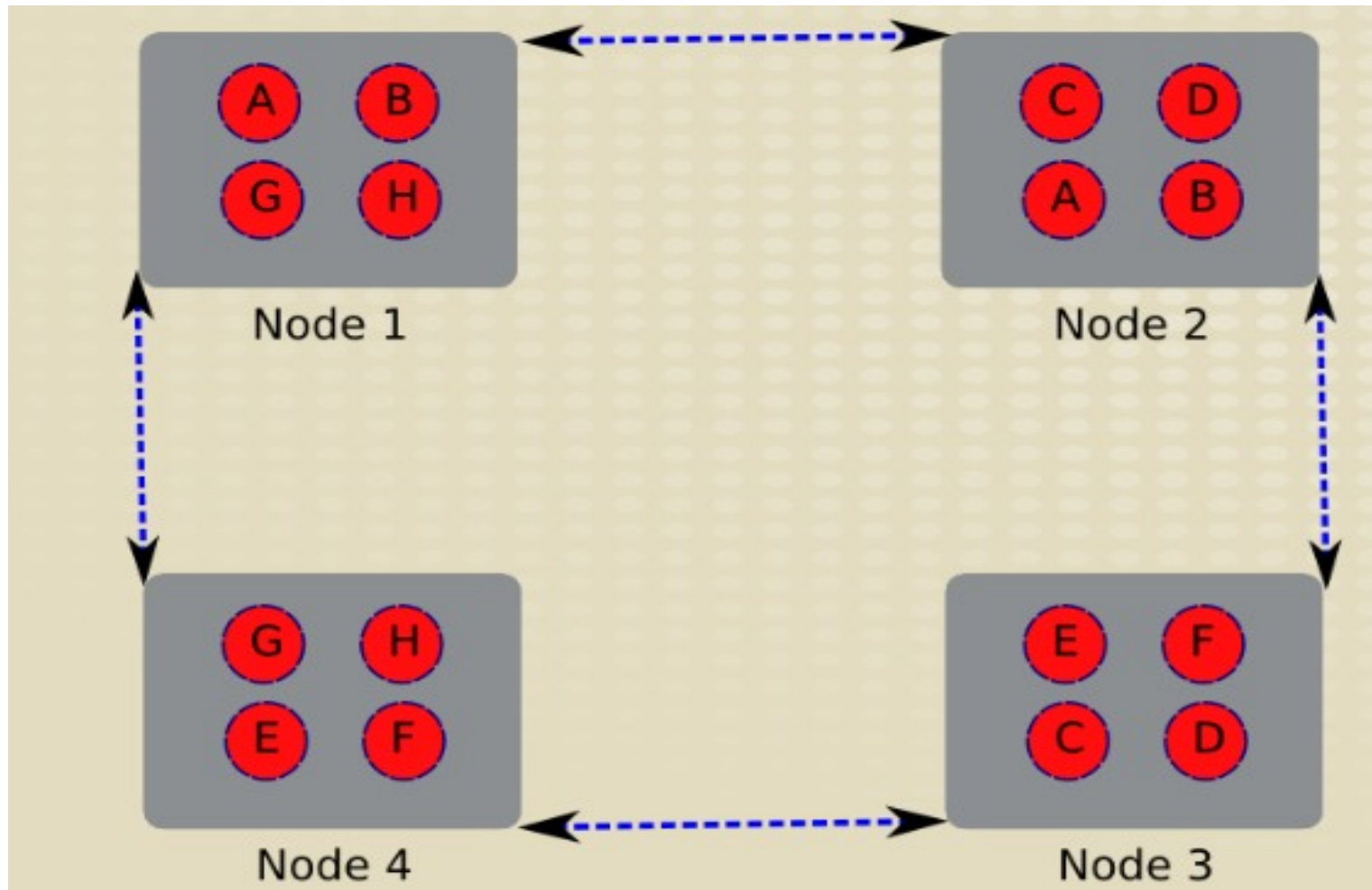


■ Replication

- `./dataGrid.sh -c infinispan-replication.xml`

Web Application Cluster

- Large Web Application cluster - Distribution



- Distribution
 - `./dataGrid.sh -c infinispan-distribution.xml`

Web Application Cluster

■ Demo

- Apache httpd + mod_cluster + JBoss
- Apache httpd + mod_jk + JBoss
- Apache httpd + mod_proxy + JBoss

If Have Time

- JBoss Cluster on Paas(OpenShift, JBoss xPaas)
- The underlying for other language cluster(scala)
- Github
 - <https://github.com/kylinsoong>
- CSDN Blog
 - <http://blog.csdn.net/kylinsoong/>