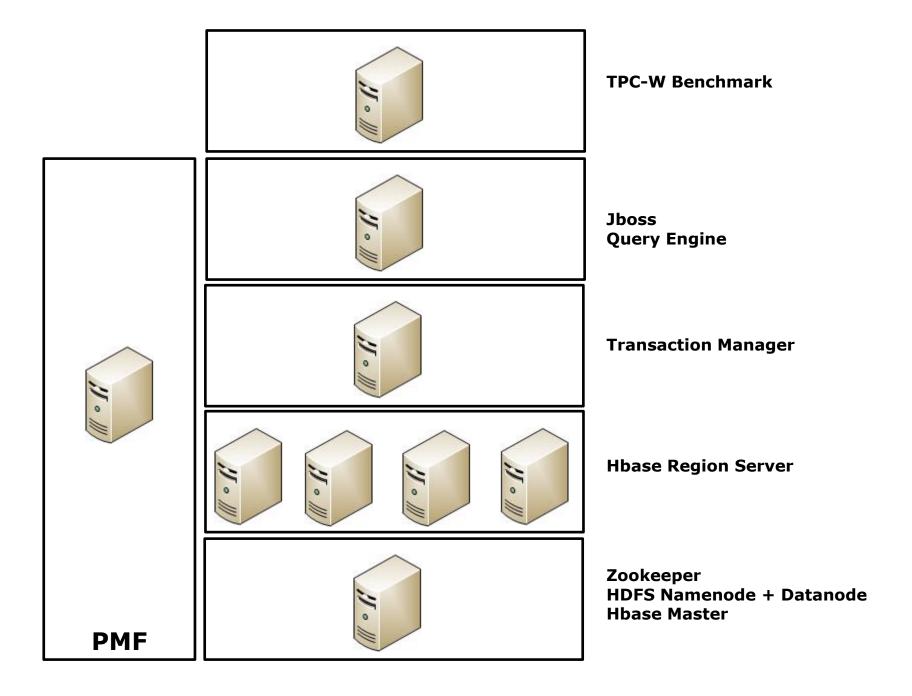
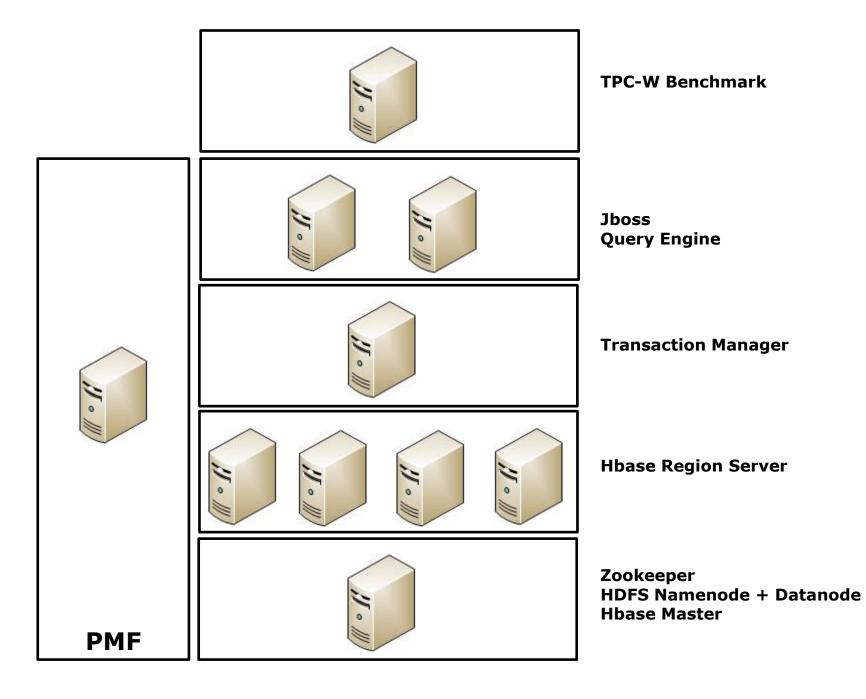
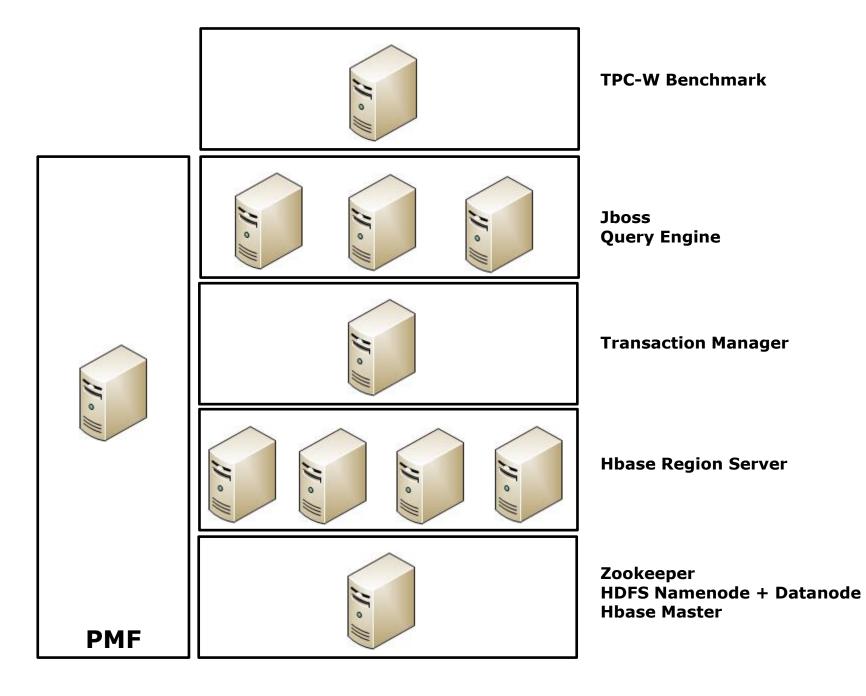
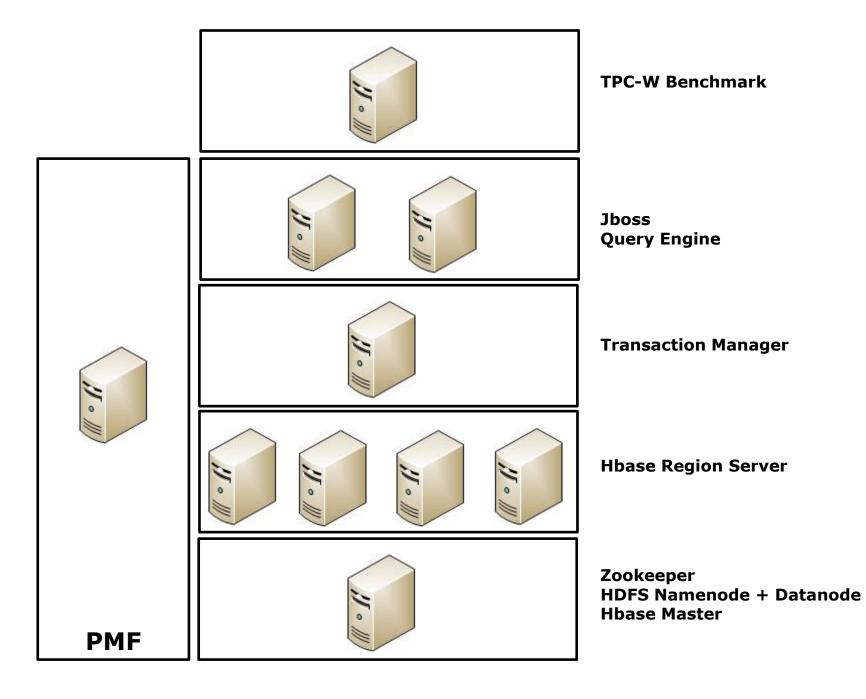
Demo of Elasticity

- Running on Flexiant public cloud
- Benchmark will increase and decrease load
- PMF will monitor and auto-scale the platform

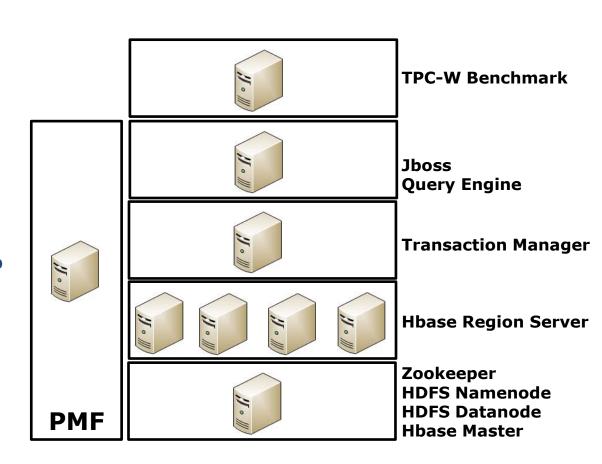




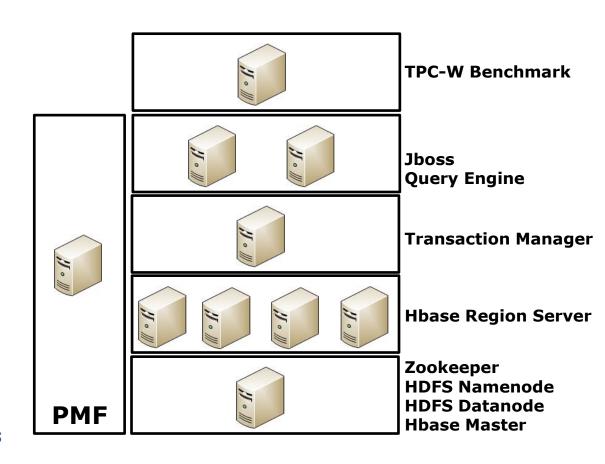




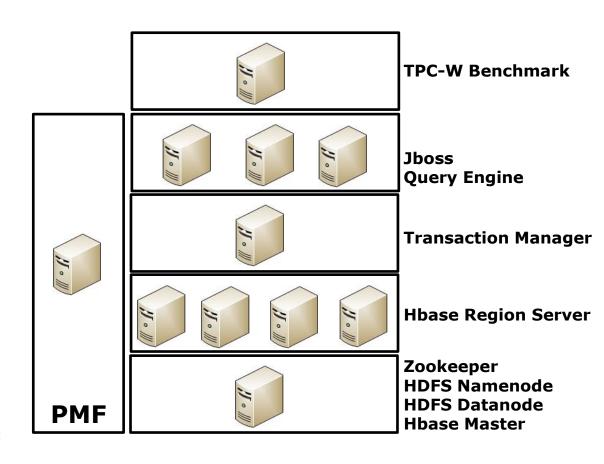
- Initial deployment
- Scaling rules for JBoss and Query Engine tier:
 - Scale out when averageCPU > 60%
 - Scale in when averageCPU < 47%
- TPC-W will increase load for 10 minutes and then decrease load for 10 minutes
- PMF Monitoring will show:
 - Increasing CPU
 utilization and increasing
 number of HTTP sessions
 when TPC-W benchmark
 starts



- JBoss / Query Engine tier scales out to 2 VMs
- PMF Rule Monitoring shows:
 - Average CPU > 60%
 - Alert triggered to add 1 more VM
- Flexiant Control Panel shows:
 - Job request to start up 1 new VM
- PMF Monitoring shows:
 - System in state 'Repair'
 - Logs for starting new VM and provisioning services
 - When services are online, 2 VMs appear in UI and system in state 'Operational'



- JBoss / Query Engine tier scales out to 3 VMs
- PMF Rule Monitoring shows:
 - Average CPU > 60%
 - Alert triggered to add 1
 more VM
- Flexiant Control Panel shows:
 - Job request to start up 1 new VM
- PMF Monitoring shows:
 - System in state 'Repair'
 - Logs for starting new VM and provisioning services
 - When services are online, 3 VMs appear in UI and system in state 'Operational'



- JBoss / Query Engine tier scales in to 2 VMs
- PMF Rule Monitoring shows:
 - Average CPU < 47%
 - Alert triggered to remove1 VM
- Flexiant Control Panel shows:
 - Job request to stop 1 newVM
- PMF Monitoring shows:
 - System in state 'Repair'
 - Logs for stopping VM and gracefully shutting down services
 - When VM shut down, only 2 VMs remain active in UI and system in state 'Operational'

