



Greg Stachnick greg.stachnick@gridgain.com @gstachni

















Agenda

- GridGain Overview
- Monitoring GridGain
- Web Console Basics
- Web Console Feature Overview
- Web Console distributions and Setup
- Demo

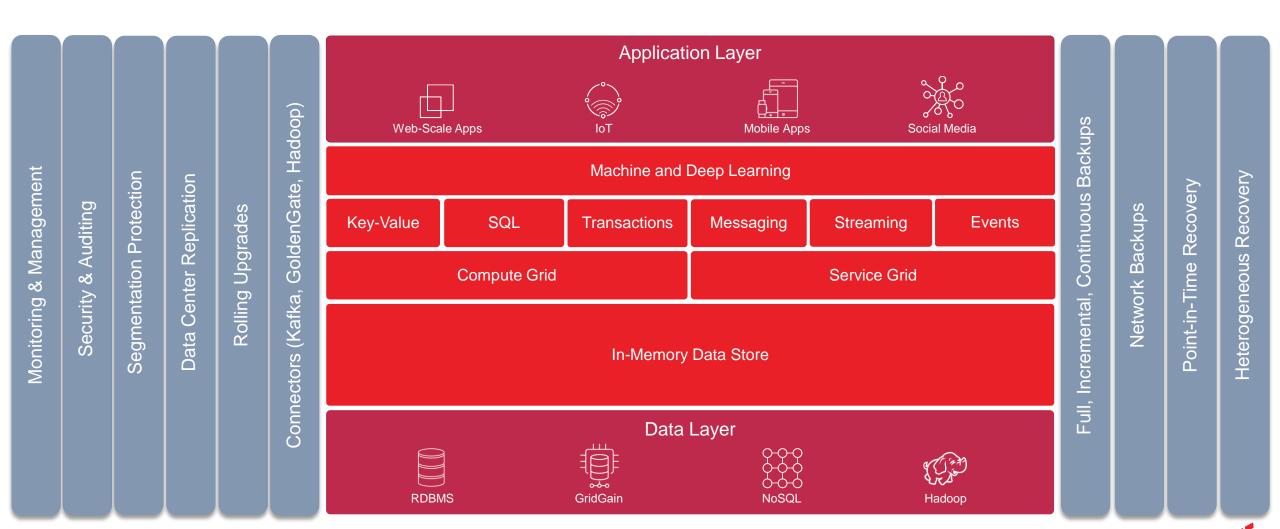


Photo by Katie Moum



Ignite & GridGain In-Memory Computing Platform





Monitoring & Managing GridGain & Ignite Clusters

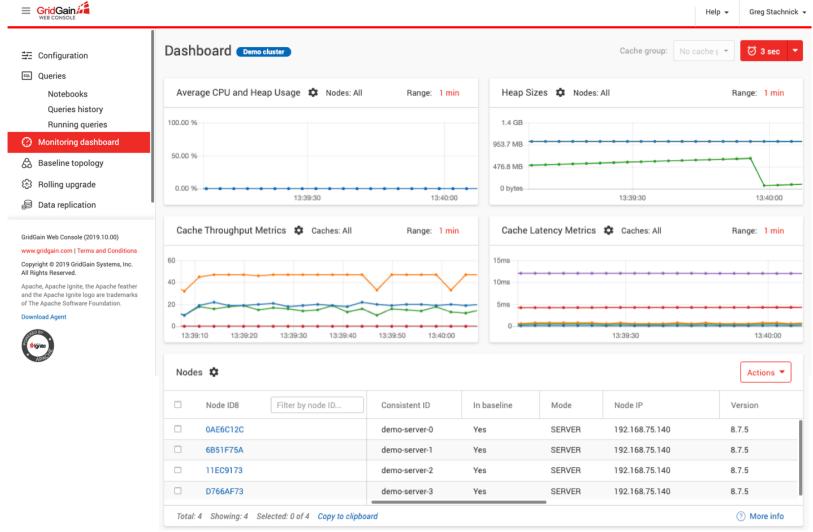
- Simplify Cluster Configuration
- Load and Query Data
- Monitor Performance Metrics
- Perform Admin Operations
- Define Alerts & Triggers
- Access & Analyze Logs and Thread Data
- Facilitate Backup & Recovery





GridGain Web Console

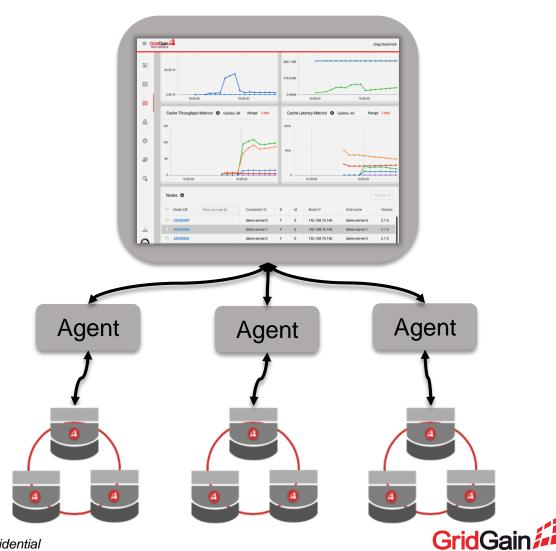






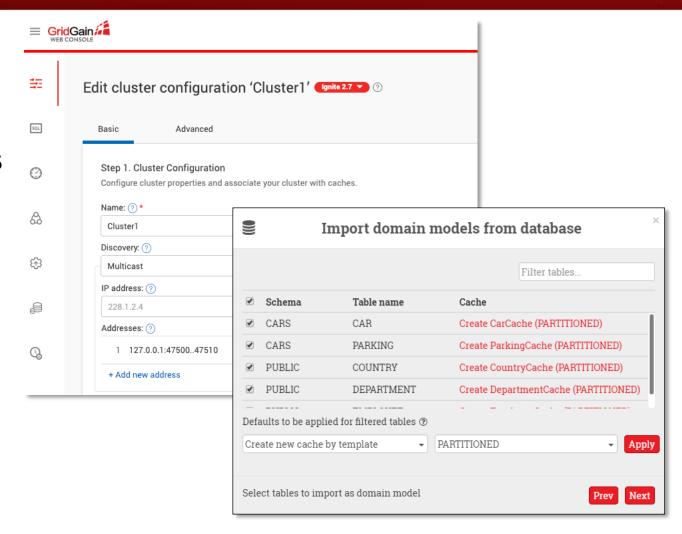
Web Console Architecture

- Core Components
 - Web Console
 - Web Agent
 - GridGain/Ignite Cluster
- NEW
- Based on Java+Spring Boot
- NEW
- Uses Ignite Persistence to store metadata



Cluster Configuration

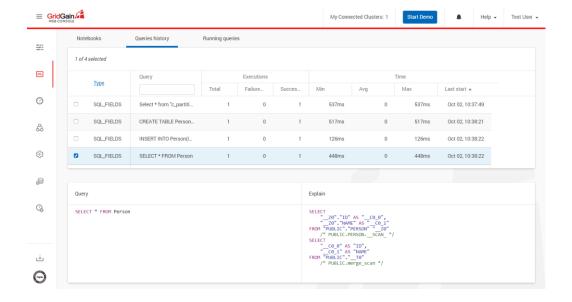
- Wizard-based cluster& cache configuration creation
- Create entire configuration files or snippets
- Database Integration
 - Import Database Schema
 - Create Domain Model
 - Preload Data





SQL Notebooks

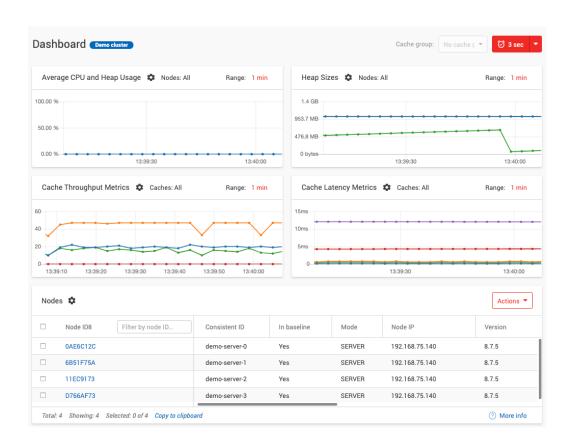
- Write & Execute SQL Queries against clusters
- Visualize SQL execution performance
- Integrated SQL editor
- Track running queries





Metrics Dashboard

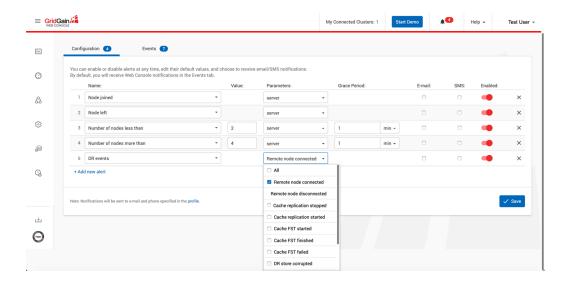
- Visualize Metrics Data
 - Heap
 - CPU
 - Memory
 - Storage
 - Throughput & Latency
 - Computations
- Perform operations on Clusters and Caches





Alerts & Events

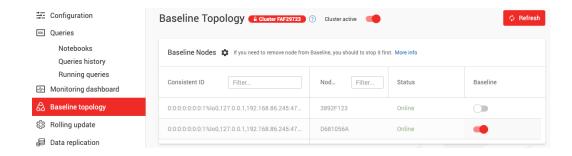
- Define Alerts for specific events
 - Node Join
 - Node Left
 - Min/Max # of Nodes
- Data Center Replication Events
- Notification Options
 - UI
 - Email
 - SMS





Baseline Topology

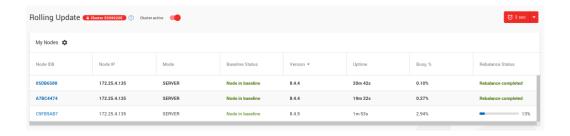
- Used with Ignite Persistence
- Easily Activate/Deactivate clusters
- Add new nodes to Topology
- Stop and remove nodes





Rolling Upgrade

- Tools to upgrade between GridGain versions
- Quickly look up which versions are deployed
- Automatically upgrades each node and rebalances data
- Does not require full cluster restart

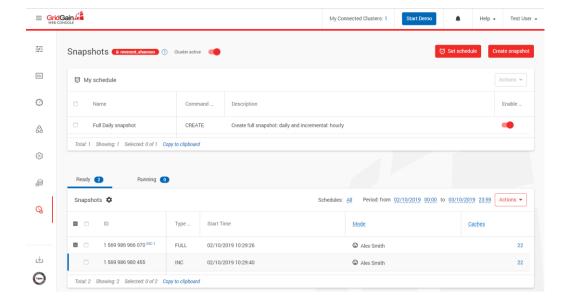




Snapshots



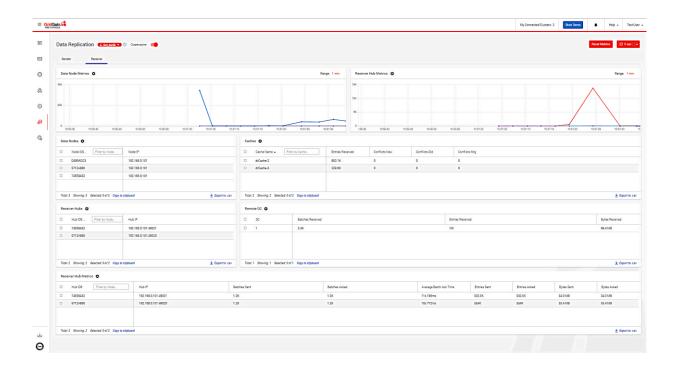
- Create Snapshots
- Compress Snapshots
 - Schedule Snapshot operations
 - Wizard
 - Cron expressions
 - Manage existing Snapshots
- Restore state through Point-in-Time Recovery





Data Center Replication

- Replicate cache data across clusters
- Active-Active or Active-Passive
- Monitor data transfer from Senders to Receivers
- Pause and Resume Transfer Progress
- DR-centric options added to Configuration screen
- DR Alerts





Web Console Distributions and Packaging



	Ignite & CE	Enterprise	Ultimate
Configuration	✓	✓	✓
SQL Queries	✓	✓	✓
Dashboard	✓ NEW	✓	✓
Rolling Upgrades		✓	✓
Data Center Replication		✓	✓
Snapshots			~

- Hosted
 - console.gridgain.com
 - centrally managed
- On Premise
 - Direct Install .zip
 - Simply Download, Unzip, & Run
 - Docker
 - DockerHub public repository
 - Sample docker-compose files



Backward Compatibility for GridGain & Ignite



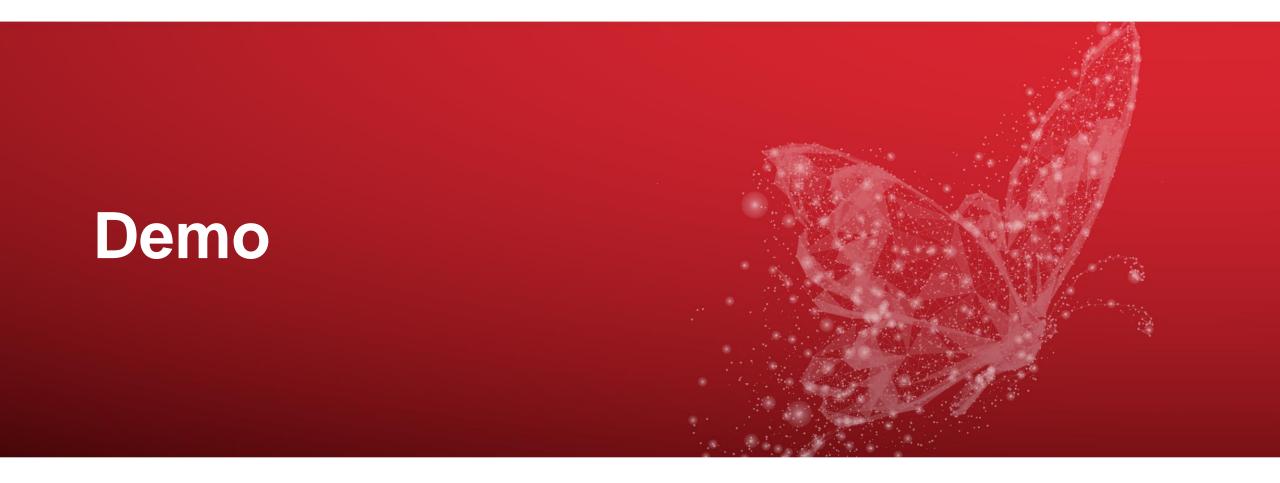
Apache Ignite

- -2.5.0
- -2.7.x
- GridGain
 - -8.4.4+
 - -8.5.x
 - -8.7.x















GridGain Resources

- Webinars
 - Visit https://www.gridgain.com/resources/webinars
- Developer Portal
 - Visit https://www.gridgain.com/developer
- White Papers
 - Visit https://www.gridgain.com/resources/papers
- Videos
 - Visit https://www.gridgain.com/resources/videos
- Sign Up for The In-Memory Computing Summit (Nov 13-14)
 - Visit https://www.imcsummit.org/
- Free 30-Day Ultimate, Enterprise or Professional Edition Trial
 - Visit https://www.gridgain.com/resources/download



