

Tungsten Cluster Master Class

Intermediate: Installing and Configuring Tungsten Dashboard

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Topics

In this short course, we will discuss:

- Tungsten Dashboard Overview
- How to Install Tungsten Dashboard
- Tungsten Dashboard Walkthrough



Tungsten Dashboard Overview



Tungsten Dashboard Overview

The screenshot displays the Tungsten Dashboard interface. At the top, the logo 'TungstenDashboard' is visible. The main navigation bar includes 'Clusters', 'Tools', and a search bar with 'All Clusters' selected. Below this, there are buttons for 'All Clusters', 'Policy Not Auto', and 'Not Ready', along with a 'Filter by name' input and 'Filter', 'Clear', and 'Clear & Go' buttons. A status bar shows 'Auto-refresh: Off' and 'Last refresh (server time): Fri, 11 Sep 2020 23:57:57 -0400'. There are also buttons for 'Start Expanded?', 'Reload All', 'Show Details', 'Hide Details', 'Expand All', 'Collapse All', and 'Clear Msgs'.

The dashboard is divided into three main sections:

- COMPOSITE**: Shows the 'world' cluster with a 'Ready' status, 'Automatic' policy, and 'A/P' type. It has 0/6 connections and is 'Unlocked'.
- PASSIVE**: Shows the 'world/london' cluster with a 'Ready' status, 'Automatic' policy, and 'Passive' type. It has 0/0 connections and is 'Unlocked'. The coordinator is 'trainingdb5'.
- ACTIVE**: Shows the 'world/nyc' cluster with a 'Ready' status, 'Automatic' policy, and 'Active' type. It has 0/6 connections and is 'Unlocked'. The coordinator is 'trainingdb1'.

Each cluster section includes a table of nodes with the following columns: Node, Role, DS State, Conns, Archive, Repl. State, applied, relative, Seqno, minStored, maxStored, pipelineSource, Dataserver, and Actions.

Node	Role	DS State	Conns	Archive	Repl. State	applied	relative	Seqno	minStored	maxStored	pipelineSource	Dataserver	Actions
trainingdb4	relay	ONLINE	0/0	-	ONLINE	1.07	3714.984	12	0	12	thl://trainingdb1:2112/	ONLINE	⚙️
trainingdb5	replica	ONLINE	0/0	-	ONLINE	1.098	3714.333	12	0	12	thl://trainingdb4:2112/	ONLINE	⚙️
trainingdb6	replica	ONLINE	0/0	-	ONLINE	1.082	3714.79	12	0	12	thl://trainingdb4:2112/	ONLINE	⚙️

Node	Role	DS State	Conns	Archive	Repl. State	applied	relative	Seqno	minStored	maxStored	pipelineSource	Dataserver	Actions
trainingdb1	primary	ONLINE	0/0	-	ONLINE	0.99	3714.636	12	0	12	/var/lib/mysql	ONLINE	⚙️
trainingdb2	replica	ONLINE	0/3	-	ONLINE	1.04	3711.922	12	0	12	thl://trainingdb1:2112/	ONLINE	⚙️
trainingdb3	replica	ONLINE	0/3	-	ONLINE	1.018	3714.275	12	0	12	thl://trainingdb1:2112/	ONLINE	⚙️



Tungsten Dashboard Overview

- Written in PHP
- Uses Haproxy to distribute API requests to Manger nodes
- Supports Tungsten Clustering 5.3+
- Installed on standalone web server
- Performs most of the functions of `ctrl`, in a graphical environment
- Minimal prerequisites

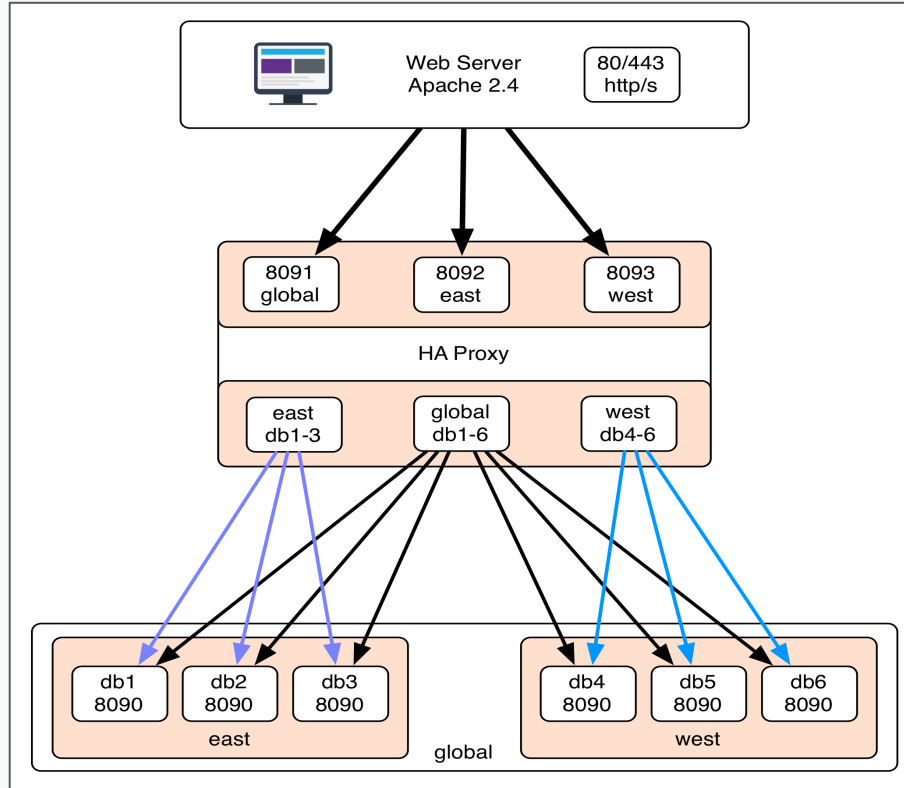


Tungsten Dashboard Prerequisites

- Tungsten Clustering 5.3+
- Web server (samples provided for apache)
- PHP 7 with curl support
- HA Proxy
- Ports: 8090 from Dashboard server to each node running the Manager (datasource/witness)
- Port 80 inbound to Dashboard server (and 443 if using SSL)



Tungsten Dashboard Overview



Demo: Installation and Usage



Summary

What we have learnt today

- Introduced Tungsten Dashboard
- Alternative to command line for managing Tungsten Clusters
- Monitoring capabilities, with more being added
- How to Install
- Usage



THANK YOU FOR LISTENING

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