Enterprise Business Intelligence (BI)

with Tableau Server

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Course Outline

Installation & Configuration

Authoring & Deploying

Intermediate Advanced

High Availability

Customizing

Overview

- Tableau Server Features and Specs
- Architecture Overview
- Server Processes
- Installing & Configuring (demo)
- Authoring & Deploying (demo)

Tableau Server Features

Business Features

Interactive dashboards any browser

Data Server provides "single-source of truth"

Data Engine = blazing fast queries

Works great on mobile

Web Authoring ad-hoc analysis

Self-service publishing

No IT bottleneck

IT Features

Active Directory Integration

Multi-tenancy using "sites"

Email alerts on system restarts

Admin monitoring views

Security override option

Easy backup/restore

Deploys in minutes (literally)

Tableau Server Tech Specs

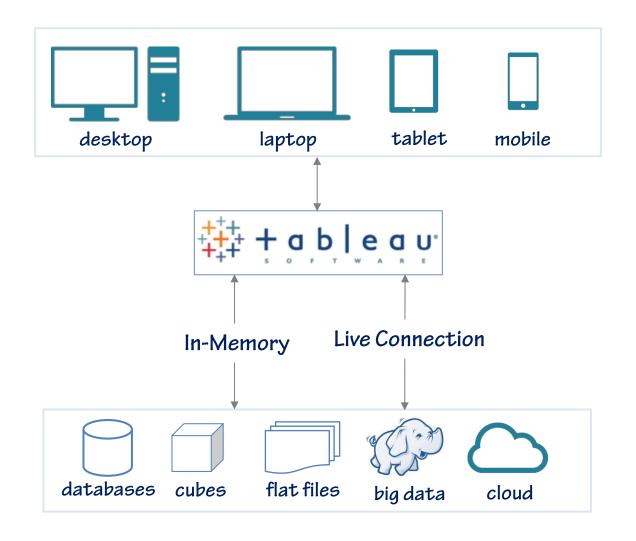
System Requirements

- Windows Server 2012, 2008, 2008 R2, 2003 SP1 or higher; Windows® 8 or 7 on x86 or x64 chipsets
- 32-bit or 64-bit versions of Windows
- Minimum of a Pentium 4 or AMD Opteron processor
- 32-bit color depth recommended
- Internet Protocol version 4 (IPv4)

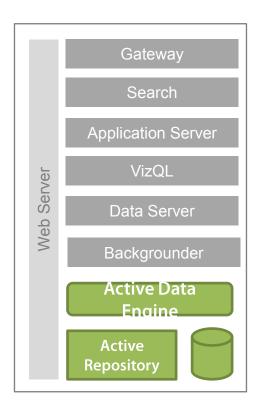
Hardware Guidelines

- Very small deployments (1-2 concurrent users)
 - 2x CPU, 4GB RAM, 20GB HDD
- Small deployments (i.e. less than 25 concurrent users)
 - 4x CPU, 8GB RAM, 40GB HDD
- Medium deployments (i.e. less than 100 concurrent users)
 - 8x CPU, 32GB RAM, 100GB HDD
- Enterprise deployments (ie. more then 100 concurrent users)
 - Contact Tableau for guidance.

Tableau Server Architecture



Server Processes



Gateway (32bit) = Load Balancer

Search (32bit) = Indexes repository

App Server (32bit) = Web UI, Security, Navigation

VizQL (32bit) = Main application engine, does everything related to views and dashboards

Data Server (32bit) = Loads cache w/ data requests, manages semantic layer (metadata layer)

Backgrounder (32bit) = Handles background refreshes and tasks (eg. Extract Refreshes and AD Sync jobs)

Data Engine (64bit) = Proprietary DB engine for Tableau Server Extracts

Repository (32bit) = Metadata for all Tableau Server Objects

Installing & Configuring (demo)

Authoring & Deploying (demo)

Summary

- Tableau Server Features
- Architecture Overview
- Server Processes
- Installing & Configuring (demo)
- Authoring & Deploying (demo)
- Summary

Intermediate

Data Server & Taxonomies

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Basics Intermediate Advanced

Installation & Configuration

Data Server

High Availability

Authoring & Deploying

Taxonomies

Customizing

Overview

- Tableau Server Architecture Review
- Tableau Data Server Features
- Using Tableau Data Server (demo)
- Server Taxonomy Review
- Taxonomy Options
- Implementing your Taxonomy

Tableau Server Architecture

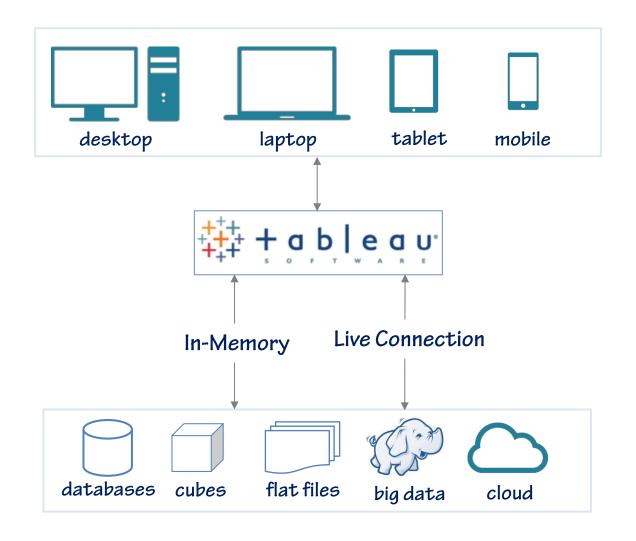


Tableau Data Server Features

Business Features

No drivers to install

No password to remember

Data remains on server

Flexible

Updates managed on Server

IT Features

Managed metric definitions

Managed joins

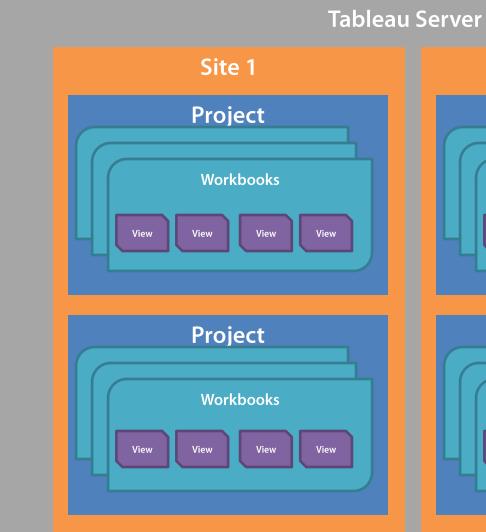
No coding for end-users

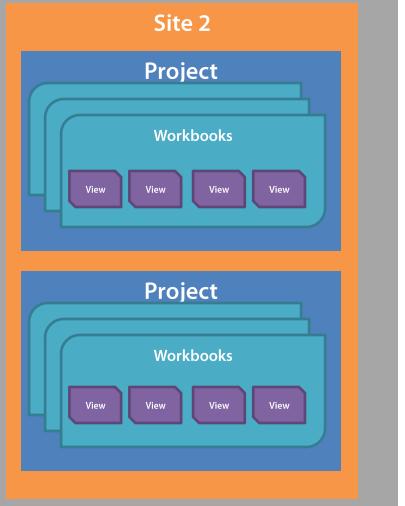
Updates immediately pushed

Simplified user management

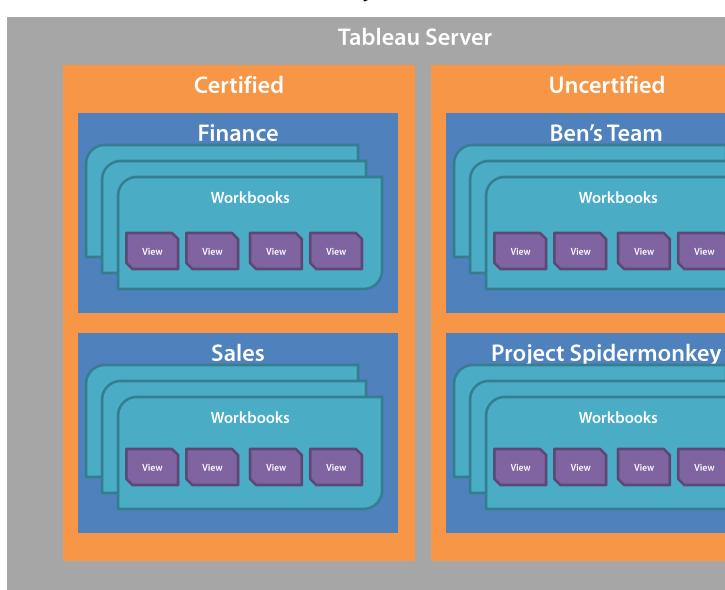
Using Tableau Data Server (demo)

Taxonomy

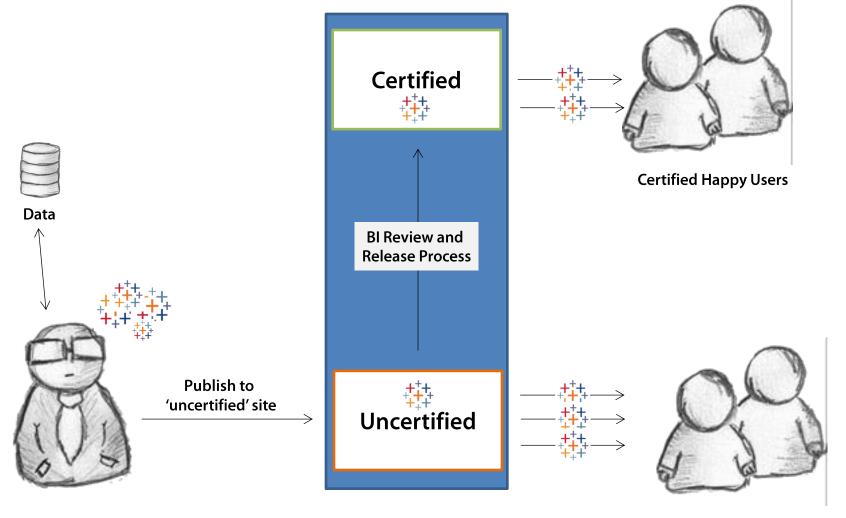




Taxonomy – Real World



Certification Process



Happy Users

Implementing your Taxonomy (demo)

Summary

- Tableau Server Architecture Review
- Tableau Data Server Features
- Using Tableau Data Server (demo)
- Server Taxonomy Review
- Taxonomy Options
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Advanced

High Availability & Customizing

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Course Outline

Advanced Basics Intermediate **Installation &** High **Data Server** Availability Configuration **Authoring & Taxonomies** Customizing Deploying

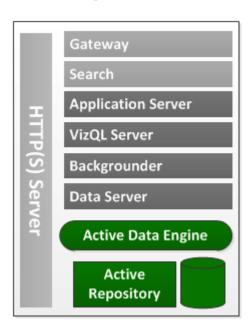
Overview

- Understanding High Availability
- Configuring High Availability (walkthrough)
- Customization Options
- Additional Customizations (not supported)
- Customizing (demo)
- Backup Automation (demo)

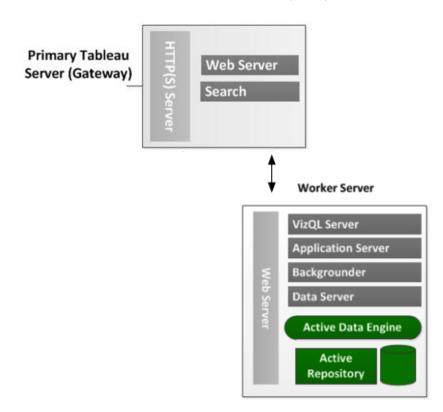
Understanding High Availability

Single Node System

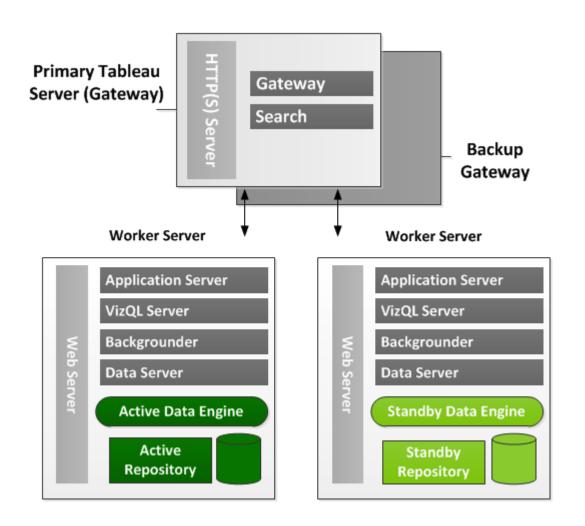
Primary Tableau Server



3-Node System (HA)



What If The Gateway Goes Down?



Configuring High Availability (walkthrough)

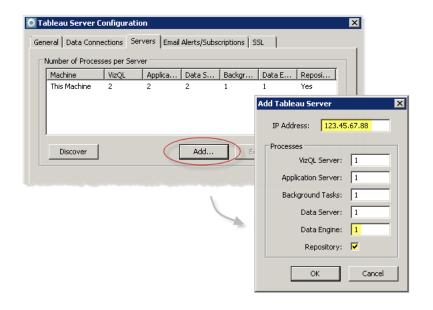
1 - Install Tableau Server on Gateway



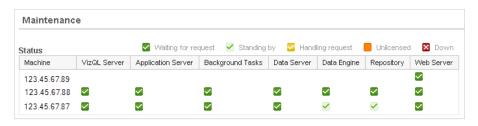
3 - Add Worker 1 to Gateway



2 - Install worker software and add worker 1

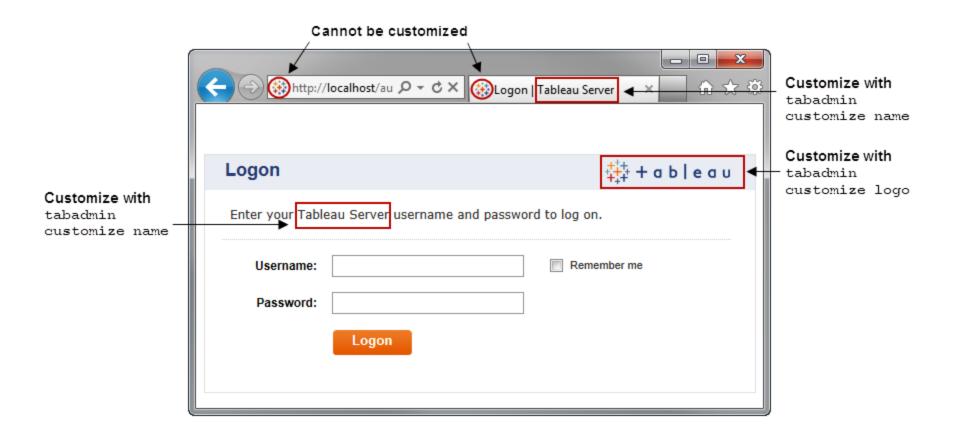


- 4 Remove processes from Gateway
- 5 Add worker 2 to Gateway



http://onlinehelp.tableausoftware.com/v8. 0/server/enus/help.htm#distrib ha fail.htm

Customization Options (supported)



Customization Options (NOT supported)

- Adding Google Analytics to your Tableau Server
- Adding real-time collaboration (togetherjs.com)

Customizing (demo)

Backup Automation (demo)

Summary

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