



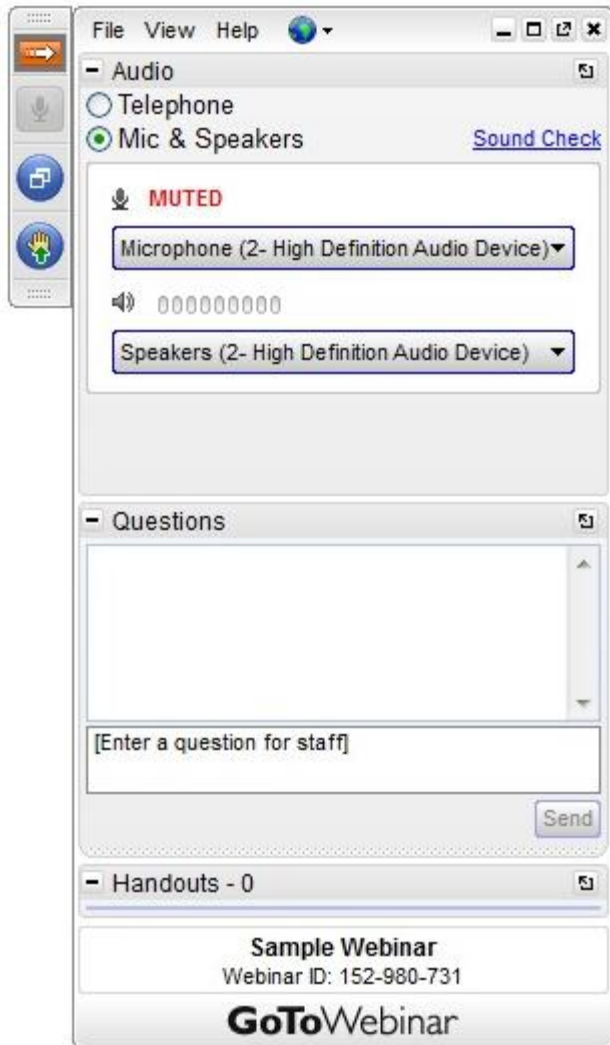
SENTURUS

GOING BIG TIME WITH TABLEAU SERVER

The Do's and Don'ts of Taking
Tableau to the Next Level



GoToWebinar Control Panel



Click arrow to restore full control panel



Submit questions here

Presentation Slide Deck on www.senturus.com



RESOURCE LIBRARY

An extensive, free library of past webinars, demonstrations, whitepapers, presentations, helpful hints, and more.

Agenda

- Introduction
- Tableau Server Benefits
 - Allowing Tableau Desktop users to share their work
 - Accessing Dashboards via the web and mobile devices
 - Controlling your Tableau spend
- Common Tableau Server Pitfalls and How to Avoid Them
- About Senturus
- Additional Resources
- Q&A

Today's Presenters



Jim Frazier
Vice President, Client Solutions



Michael Weinbauer
Practice Area Director / Solutions
Architect

Poll

Are you currently using Tableau Server?

- Yes, local version
- Yes, online version
- Not yet, but actively considering
- No and no plans to implement



SENTURUS

TABLEAU SERVER BENEFITS

If Your Tableau Environment is Like This...

These attachments are huge!

Where's the data source?

Where on SharePoint is this again?

You forwarded that sensitive data to who?!?

Which version are we using?

Which email was that attached to?



I want this on my mobile device!

Why is this so slow?

Then Maybe It's Time for Tableau Server!

Organized



Secure



Collaborative



Mobile



Governed



Performant



Available



Achieving the Holy Grail of Self Service

- View and interact - (almost) anywhere on any device
- Create your own views
- Enable ad-hoc and data discovery
- Support collaboration



Server Can Be More Cost Effective!

- All users don't need desktop license
- Consider Cloud options
- Consider Tableau Reader



Server Can Be More Cost Effective!

License views provide visibility into desktop usage!

The screenshot displays the Tableau Desktop License Usage interface. The top navigation bar includes 'Server Status', 'Tableau Desktop License Usage', and various tool icons (Undo, Redo, Revert, Refresh, Pause). Below the navigation, there are tabs for different views: 'User', 'Actions by Recent Users', 'Background Tasks for Extracts', 'Background Tasks for Non Extracts', 'Stats for Load Times', 'Stats for Space Usage', 'Server Disk Space', 'Desktop License Usage', and 'Desktop License Expirations'. The 'Desktop License Usage' tab is active, showing a summary of license usage for the last 90 days: 35 Perpetual, 3 Trial, and 3 Term licenses.

Below the summary, a table lists users who have used Tableau in the last 90 days. The table columns are Product Key, Department, User Name, Host Name, Registered User Name, and App Version. A tooltip is visible over the user 'Hibbert, Julius', showing details: Register user Hibbert, Julius; Email address jhibbert@tableau.com; Action Type: Use; Report Date: March 16 2016.

The x-axis at the bottom of the chart shows dates from 1/7/2016 to 6/5/2016. Below the chart, a section titled 'What licenses have not been used for over 90 days?' lists users and their license expiration dates.

Product Keys	User Name	Host Name	Email	Days
TD2B-AB45-XXXX-XXXX-XX	asimpsons	asimpsons.ts1.lan	asimpsons@tableau.com	127days
TDGG-DCBA-XXXX-XXXX-XX	tmclure	tmclure.ts1.lan	tmclure@tableau.com	126days
TDII-AB12-XXXX-XXXX-XXXX	lhutz	lhutz.ts1.lan	lhutz@tableau.com	126days
TDCC-CCDD-XXXX-XXXX-XX	anahasapeemape1.lan	anahasapeemape..	anahasapeemape1.lan@tabl..	116days
TDBB-DDEE-XXXX-XXXX-XX	kkrustofski	kkrustofski.ts1.lan	kkrustofski@tableau.com	109days
TDFF-ABCD-XXXX-XXXX-XX	mburns	mburns.ts1.lan	mburns@tableau.com	99days
TDEE-AABB-XXXX-XXXX-XX	wsmithers	wsmithers.ts1.lan	wsmithers@tableau.com	96days

Tableau Server Versions & Licensing Costs

Tableau Desktop

- \$1,995 / named user

Server - On Premise

- \$1,000 / named user

Tableau Online - Hosted Tableau Server

- \$500 per year / named user

Server - Core

- \$200-350k per year / 8 cores - unlimited users

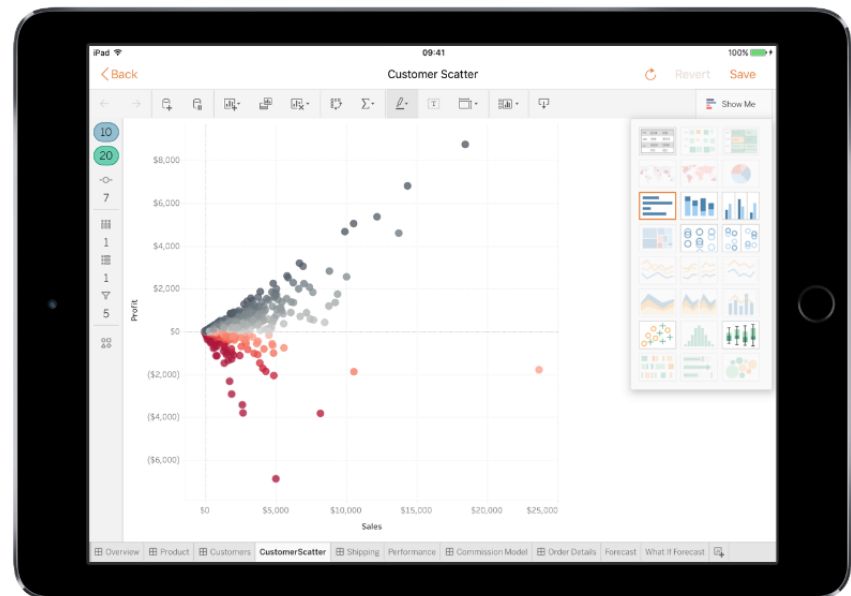
Licenses can be purchased from Senturus!

Mobile Apps

Tableau App

- iPhone, iPad, Android
- Device specific layouts ease deployment
- Automatically mobile enabled and optimized
- Can be deployed using MobileIron or Airwatch

Allows for viewing,
interacting, subscribing,
even editing and creating!





PITFALLS

Pitfall #1 Underpowered Hardware

Don't under spec your hardware!

- Hardware is (relatively) cheap
- Virtualize, but...
 - Need know-how
 - Best practices prevent resource contention
- Tableau is different



Pitfall #2 Just Install with Defaults and Go

- Authentication settings cannot be changed post-installation
- Only ONE authentication provider
- Clustering/HA
- No organization
- No security
- No governance



Installation Challenges

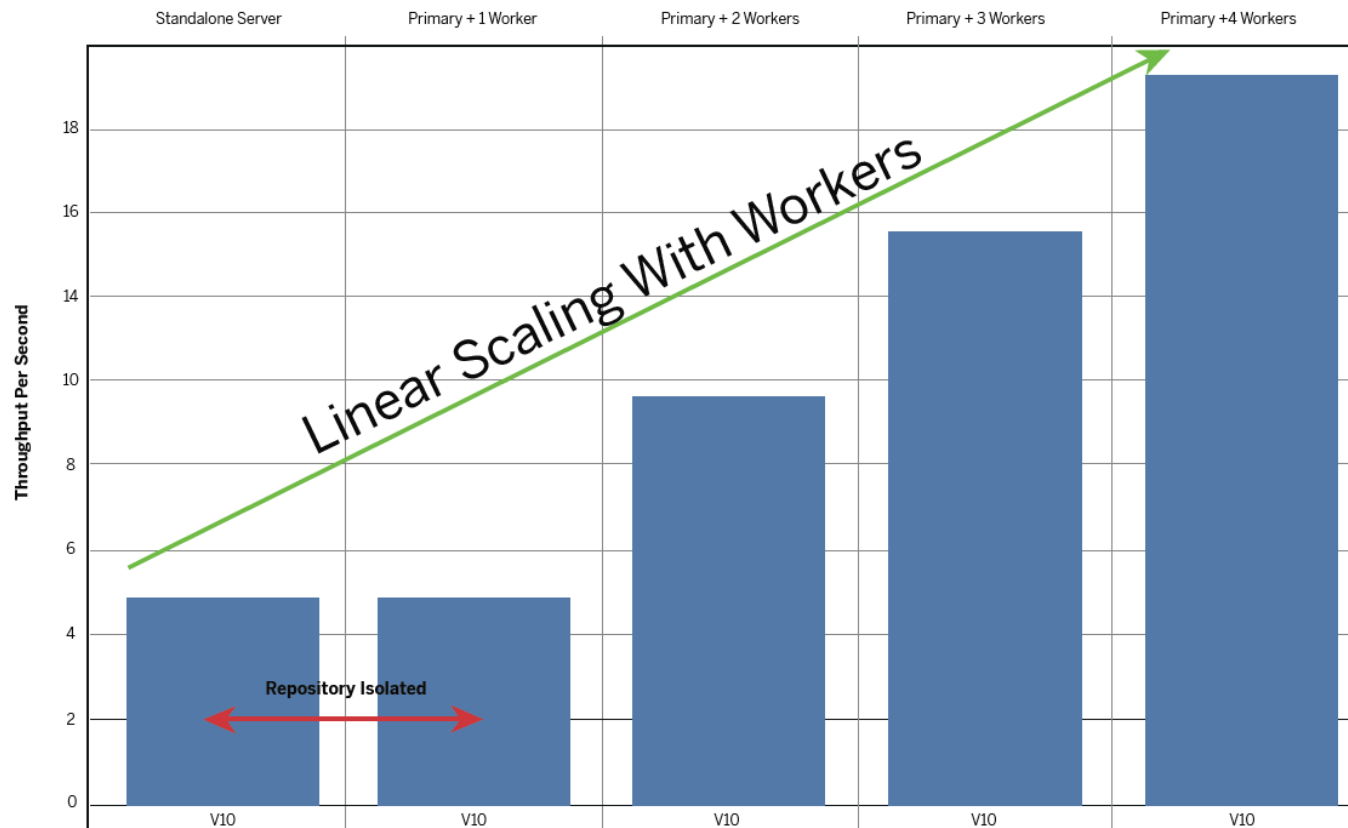
- Cluster Configurations
- Authentication
 - ADS sync
 - SAML, Kerberos or OpenID
- SSL
- Setting up Server / Role-Based Security
- Determining Causes of Performance Issues
- Linux?



Installation Challenges

Distributed Cluster Configurations

- Huge impact on scale



Installation Challenges

Distributed Cluster Configurations

- Risk profile - balance with cost

Deployment Configuration	Use Case	Risk Profile
Standalone Server	Simple single server deployment	High risk for availability, high resource contention, no head room for peak load performance challenges
1 Primary + 1 Worker	Two node deployment	High risk for availability, lower resource contention with repository, no headroom for peak usage
1 Primary + 2 Workers	Three node deployment	Moderate risk for availability, lower resource contention, improved horizontal scale, very little headroom for peak usage
1 Primary + 3 Workers	Four node deployment	Moderate risk for availability, lower resource contention, improved scale, moderate headroom for peak usage
1 Primary + 4 Workers	Five node deployment	Lower risk for availability, improved scaling, available headroom for peak usage ¹









Pitfall #3 Insufficient Care and Feeding

- Use built in capabilities - data source views, notifications, revision history
 - Optimize what is used, remove what isn't
- Ensure database drivers are installed on server
- Optimize data sources



Pitfall #3 Insufficient Care and Feeding

Data source views show you what's being used - or not

Name	↓ Views: All	Workbooks	Connection type
★  Production FAOSTAT ...	3,721	306	Amazon Redshift
☆  Food Variance ...	1,899	157	Google BigQuery
☆  Food Transactions ...	1,872	90	Microsoft SQL Server
☆  Price Variance ...	1,653	95	Amazon Redshift
★  Commodity Prices ...	1,441	98	Snowflake
☆  Agricultural Survey ...	1,289	63	Microsoft SQL Server
☆  Price Data ...	1,141	39	Text File
☆  Transactions ...	653	23	Google Sheets

Pitfall #4 Lack of Governance

- Consider a BICC or VCoE
 - People AND
 - Process AND
 - Technology
- Data/Metadata Stewardship
 - How many versions of the truth do you want?
- KISS your data



Pitfall #5 Out of Date Tableau Versions

Tableau has introduced significant performance enhancements with each major version

- Client saw high double digit decreases in load times for nearly all workbooks simply from upgrading from v8 to v9!



Pitfall #6 Just Upgrade to the Latest Version

Caveat to Pitfall #5 - Don't just jump!

- Have a testing plan that represents reality
- Do your homework
- Always perform backups so you have fallback option



Performance Improvements Over Time

2-50x!

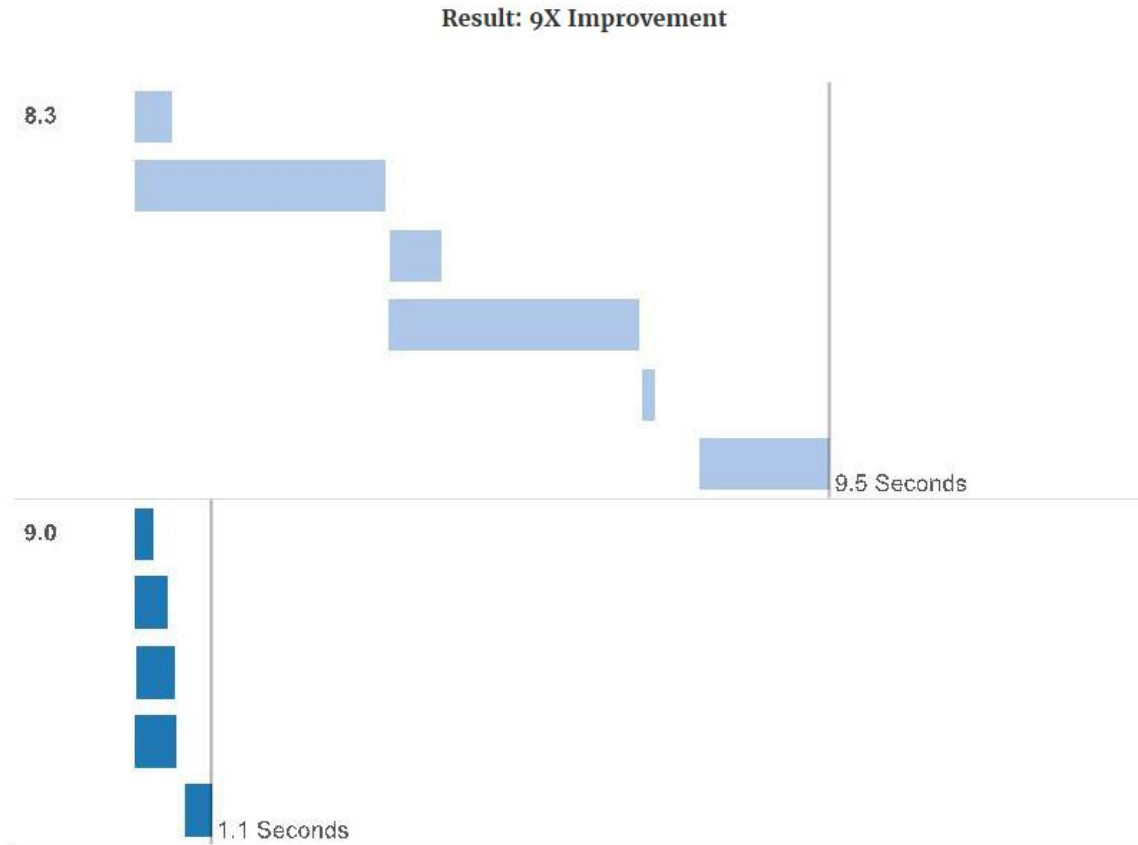
Performance Improvement Range of v9 over v8
Overall Data Engine Performance

Result: 10x Improvement



Performance Improvements Over Time

Parallel Queries

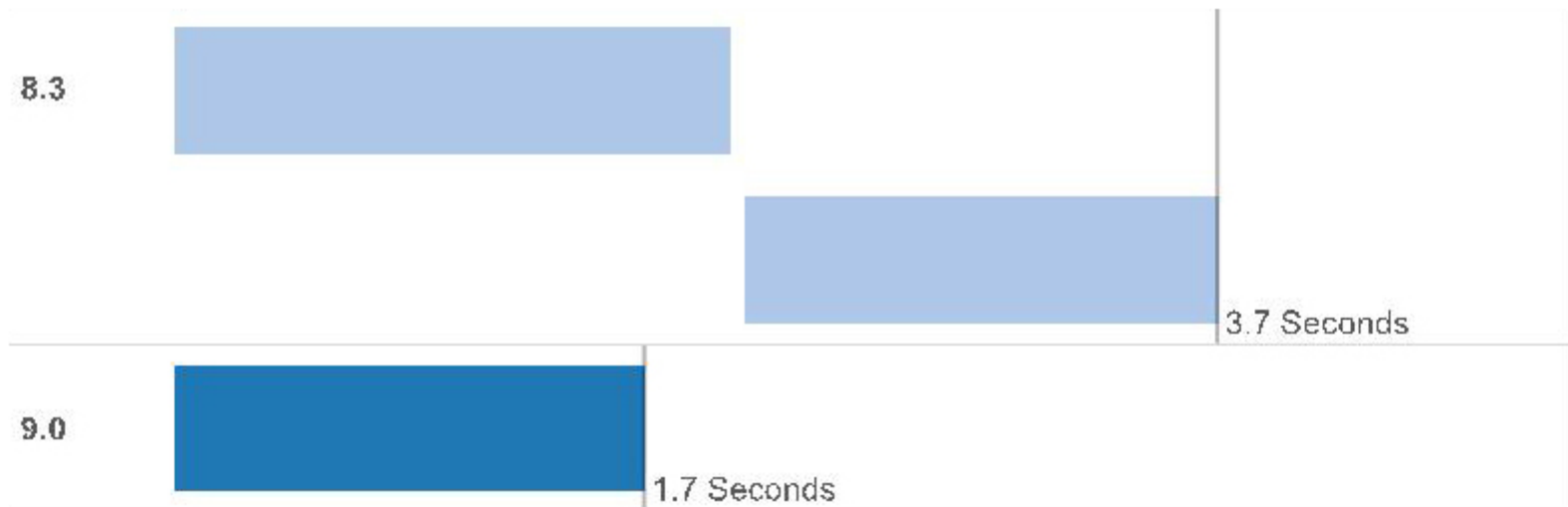


Added “query fusion”, cache server/external cache, vectorization

Performance Improvements Over Time

“Query Fusion”

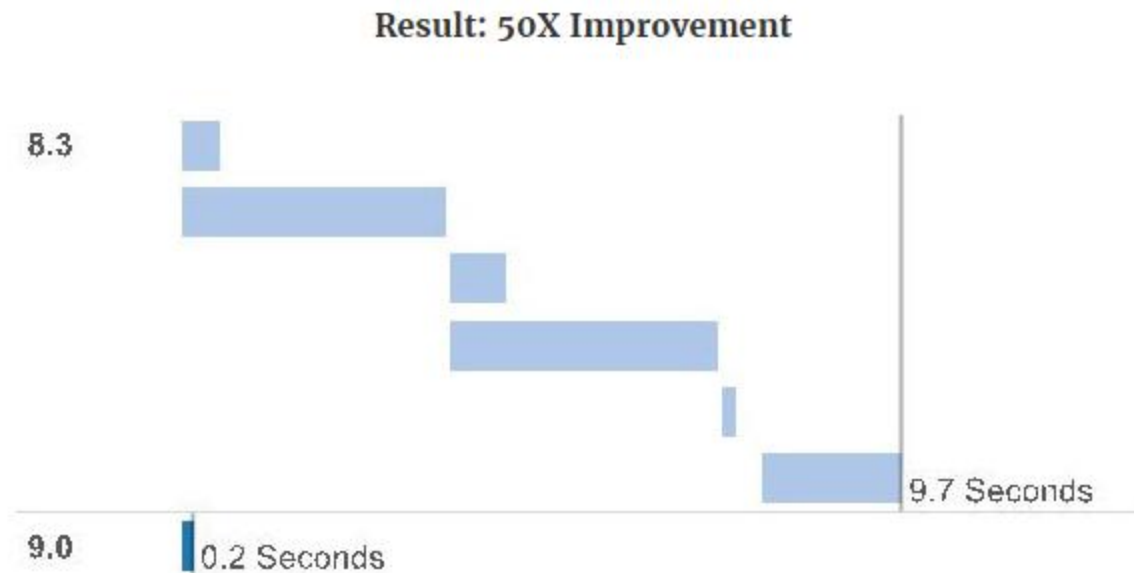
Result: 2X Improvement



Added cache server/external cache, vectorization

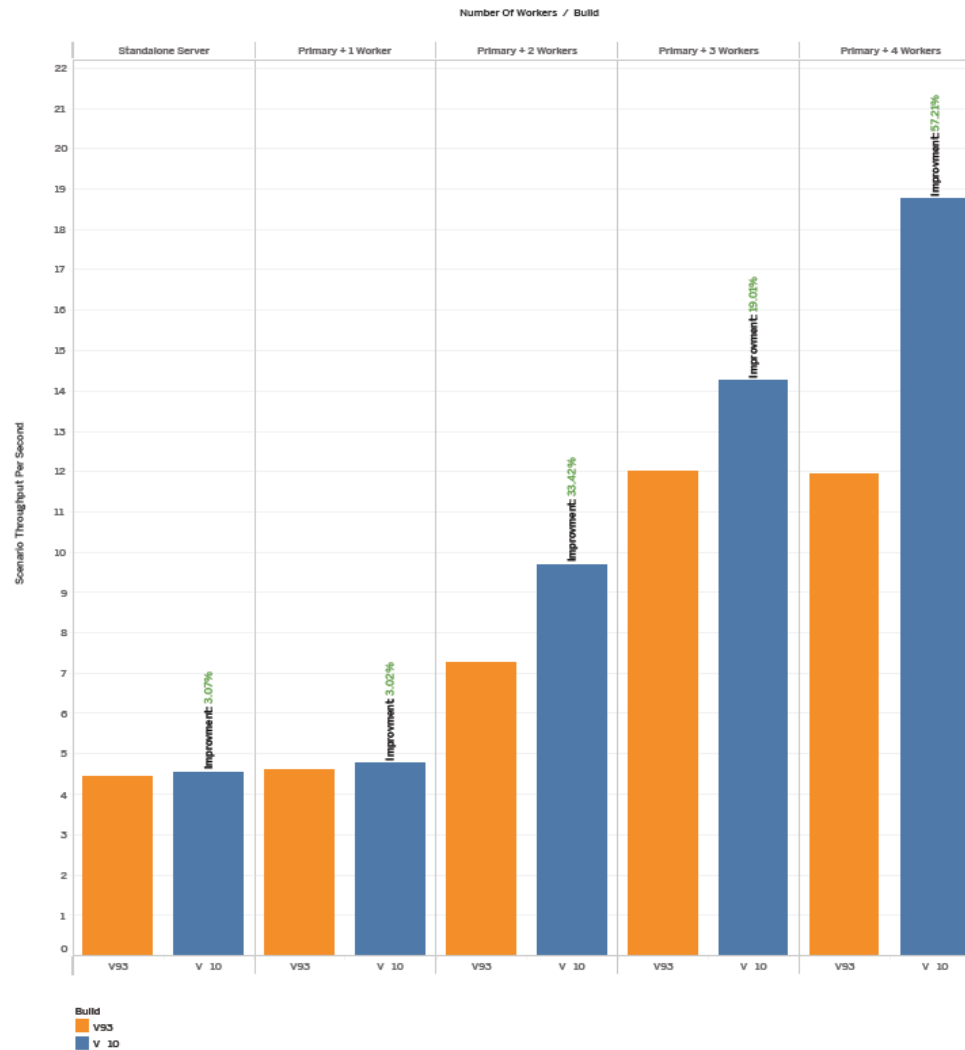
Performance Improvements Over Time

External Query Caching



And...vectorization (not quantified)

Tableau 10 Server Performance vs v9



Pitfall #7 Inadequate Data Prep

Your spreadsheet blending workbook is going to tip over at scale

- Time for a database - which one?
- To extract or not to extract?
- What is Hyper and what does it mean?
- ETL/Data Prep Tool options are dizzying
- Dashboard design
- Source data structure



Pitfall #8 Winging It With Security

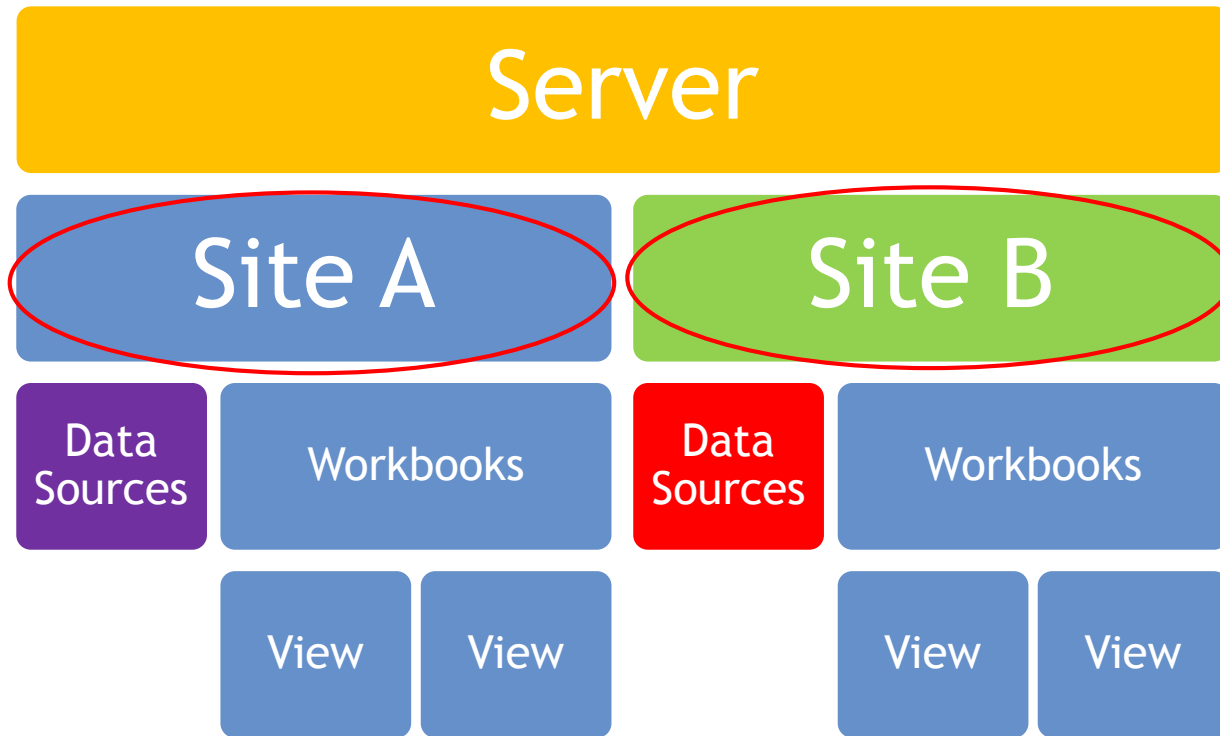
Which is best?

- DBMS Server based
- Database table linked to analysis
- Workbook based - user/group filters
- Server



Security

Server Structure



Security

- Site Roles
- Permission Rules and Templates
- Content Ownership
- Group Permissions
- User Permissions



Pitfall #9 Always Consider End Users

Leverage device specific layouts for your users to improve their dashboard experience and adoption!



Pitfall #9 Always Consider End Users

Without iPhone specific layout



With iPhone specific layout



Pitfall #10 Insufficient Training

- End User
 - Understand capabilities, differences, and data
- Admins - Site and/or Server
 - Server admin pages
 - Config utility, tabadmin, tabcmd, REST API



Pitfall #11 Rip and Replace Legacy BI

Critical to analyze current application to determine best way to convert to Tableau

- Rationalize
- Visualize
- Enable ad-hoc
- Distribution



Summary and Conclusions

Tableau Server is Powerful, BUT

- Plan ahead for installation
- Support its care and feeding
- Prepare your data
- Establish governance
- Plan for security
- Get and provide training
- Never forget the end user/
business use case!

We can help! Call the Senturus Superheroes - it's what we do. All day, every day - making the complex simple.



Poll

What challenges does your organization face in adopting Tableau Server?

- Performance
- Data Source Preparation
- Security
- Installation and On-going Maintenance
- Adequate Training

Free Tableau Server Trial & Assistance

Free Tableau Server trial
and free help installing it.

Let us know in the question pane
or

Send an email to Jim Frazier at
jfrazier@senturus.com

Tableau Server Optimization Assessment



Assessment Itinerary

- Check Tableau Server configuration settings for best practices
- Explore hardware sizing and provide guidance
- Inspect network/hardware configuration and settings for best practices
- Analyze backend data sources and structures
- Analyze a sample set of worksheets and dashboards to troubleshoot performance issues



Deliverable

- Findings and recommendations document pinpointing sources of performance issues



Guarantee

- If Senturus does not find and diagnose the factors creating your performance problems, you don't pay



Cost

\$2995



SENTURUS

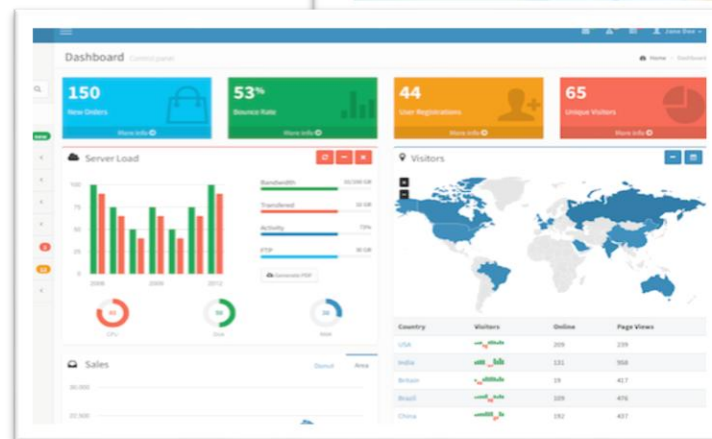
WHO WE ARE & WHAT WE DO
Business Analytics Consultants

Bridging the Gap Between Data & Decision Making



Business Analytics Architects

- Dashboards, Reporting & Visualizations
- Data Preparation & Modern Data Warehousing
- Self-Service Business Analytics
- Big Data & Advanced Analytics
- Planning & Forecasting Systems
- Proprietary Analytics Connector Software



1000+ Clients, 2000+ Projects, 16+ Years



SEPHORA



KELLY-MOORE
PAINTS™



FREMONT BANK



CRC
HEALTH GROUP



NETGEAR®
Connect with Innovation™

U.S. AIR FORCE

Genentech
A Member of the Roche Group



National
Semiconductor

KORBEL®
CALIFORNIA CHAMPAGNE



lisi AEROSPACE



MEYER®



Abbott



BIO-RAD

TriNet
Ambitions realized™



shutterfly

PENTAIR





SENTURUS

ADDITIONAL RESOURCES

Tableau Server Whitepapers and Guides

[Tableau Server Scalability \(v10\)](#)

[Tableau Server 9.0 High Availability: Delivering Mission-Critical Analytics in the Flow](#)


[Tableau Server 9.0 Scalability: Powering Self-Service Analytics at Scale](#)

[Tableau Server on VMWare vSphere](#)

[Tableau 9 Query Performance Improvements](#)

[Tableau Server Everybody's Install Guide](#)


Free Resources on www.senturus.com



HOME FOCUS EXPERIENCE RESOURCES TRAINING ABOUT US CONTACT

RESOURCE LIBRARY

Welcome to our extensive, free library of past webinars, demos, white papers, presentations and helpful hints. Use the topic boxes to the right to filter through and easily locate content. We are constantly adding new materials, so please check back often to see our latest content. Enjoy!

SEARCH RESOURCES **GO**

SORT BY **Popularity** Date Title Type 

RESOURCE TITLE	TYPE	GO
TOP 10 KEYS TO BI SUCCESS Business Intelligence Strategies That Work	 BUSINESS STRATEGY	→
PREPARING FOR COGNOS ANALYTICS V11 Prep v10 Now to Ensure a Smooth Upgrade Later	 TIPS & TRICKS	→

LEGENDS

FEATURED **NEW**

TOPICS

- BIG DATA AND ADVANCED ANALYTICS (4)
- + DASHBOARDS, REPORTING & VISUALIZATIONS (112)
- + DATA PREPARATION (11)
- + ENTERPRISE PLANNING (35)
- + PREDICTIVE ANALYTICS (14)

Upcoming Events

www.senturus.com/events



KEYS TO SUCCESS IN BUSINESS ANALYTICS

PROVEN, PRACTICAL STRATEGIES THAT WORK

Thursday, February 23, 2017 - 10am PT/ 1pm ET - 90 minutes



TABLEAU LIKE A PRO IN HALF A DAY

HANDS-ON WORKSHOP IN OAKLAND, CA

Thursday, February 23, 2017 - 8:30am - 12:30pm OR 1pm - 4:30pm - 4 hours OR 3.5 hours



USING COGNOS AS A DATA SOURCE FOR TABLEAU

FASTER, MORE ACCURATE REPORTING & DATA SECURITY

Thursday, March 16, 2016 - 10am PT/ 1pm ET - 45 Minutes

Tableau Training Options

<http://www.senturus.com/training/choosing-tableau-class/>

Regularly Scheduled, Instructor-led, Online

- Introductory, intermediate and advanced Desktop courses
- Expert business analytics instructors
- Hands-on exercises

Private, Custom Onsite or Online Tableau Training

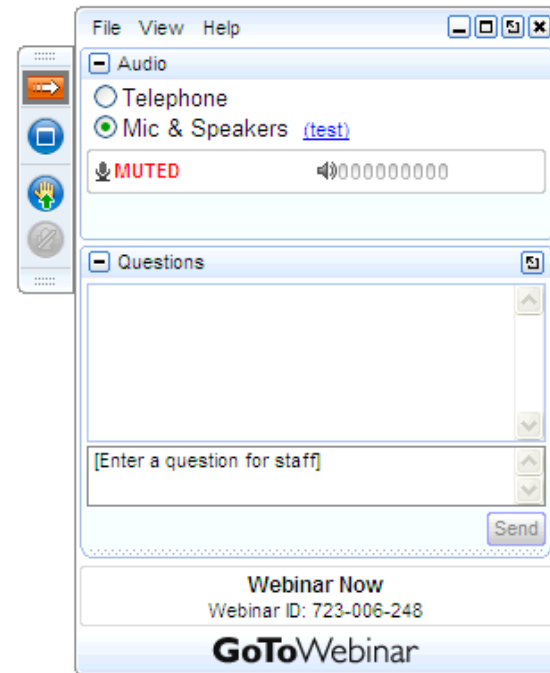
- Tailored to users' level of expertise
- Desktop and Server versions
- Classes can be made even more relevant by using your company's data

Q&A

If your question or issue is broader than what can be answered today, contact us at

info@senturus.com

and we will set up a free consultation.



Thank You!

www.senturus.com
info@senturus.com
888 601 6010



Copyright 2017 by Senturus, Inc.
This entire presentation is copyrighted and may not be
reused or distributed without the written consent of
Senturus, Inc.

