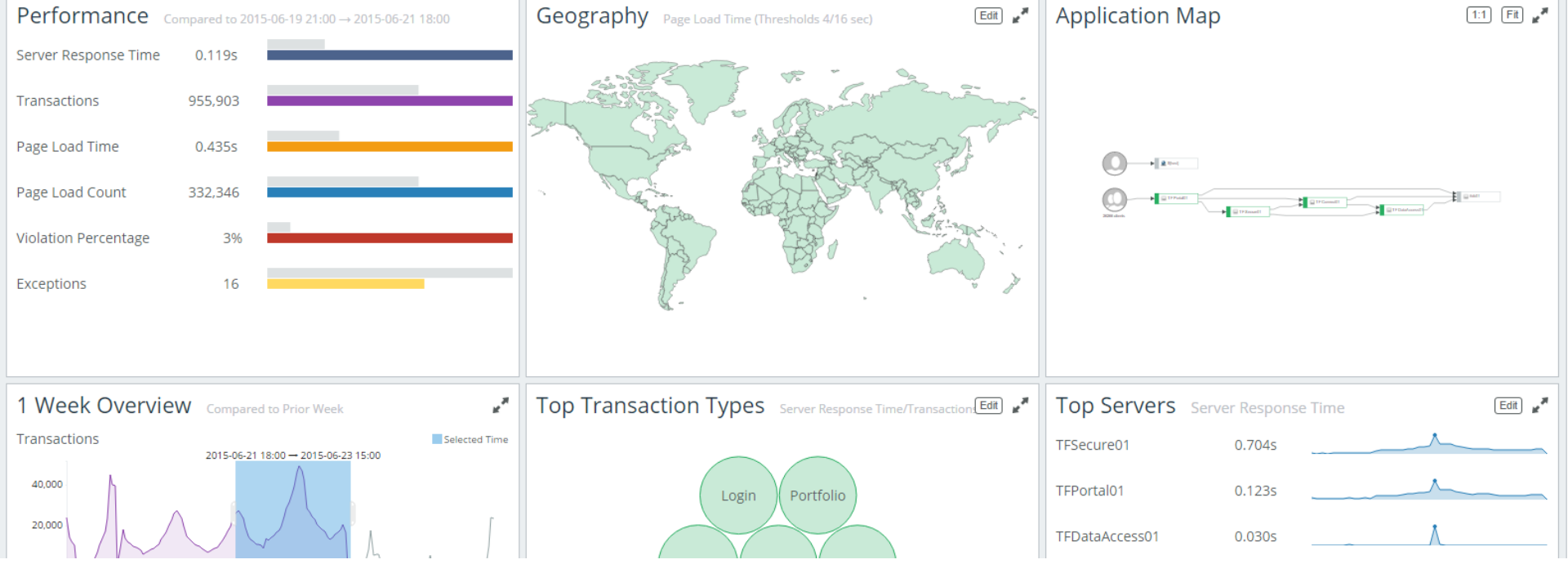


SteelCentral AppInternals

Quick Demo Deck (QDD)

riverbed®

Riverbed SteelCentral App

https://appinternals10-1.rpm.riverbedlab.net/#overview:time=24365452+60&ttTableKey=11

All Applications >

Today 12:52 → 13:52

SteelCentral AppInternals

riverbed

All Applications >

appinternals10-1 • 10.3.142 nleszczynski | Log out

HOME ACCOUNT HELP

Today 12:52 → 13:52

Overview | Application Map | Transaction Types | Servers | Instances | Geography | Search

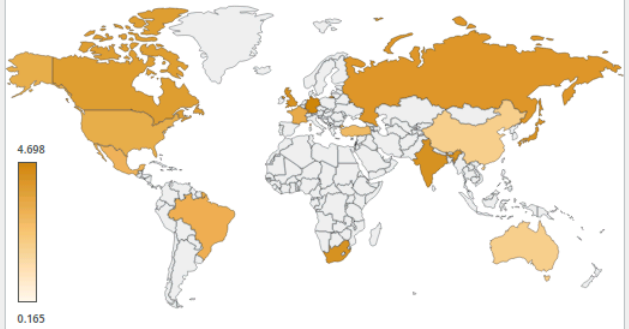
Performance

Compared to Yesterday 12:52 → 13:52

Server Response Time	0.064s
Transactions	1.63M
Page Load Time	3.381s
Page Load Count	19,822
Violation Percentage	<1%
Exceptions	851

Geography

Page Load Time (sec) Edit



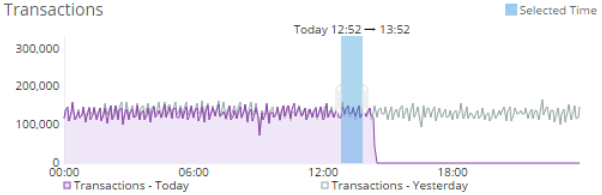
Application Map

1:1 Fit

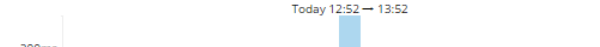
24 Hour Overview

Compared to Yesterday

Transactions

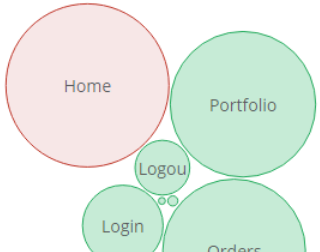


Server Response Time



Top Transaction Types

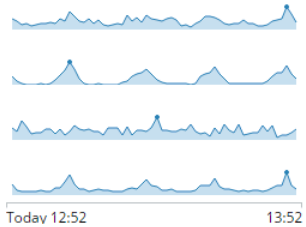
Server Response Time/Transaction Edit



Top Servers

Server Response Time Edit

TFDNPortal01	3.299s
TFDNSecure01	1.145s
TFDNConnect01	0.061s
TFDNDataAccess01	0.014s



Riverbed SteelCentral App

https://appinternals10-1.rpm.riverbedlab.net/#overview:time=24365452+60&ttTableKey=11

All Applications >

Today 12:52 → 13:52

SteelCentral AppInternals

riverbed

All Applications >

appinternals10-1 • 10.3.142 nleszczynski | Log out

HOME ACCOUNT HELP

Today 12:52 → 13:52

Overview | Application Map | Transaction Types | Servers | Instances | Geography | Search

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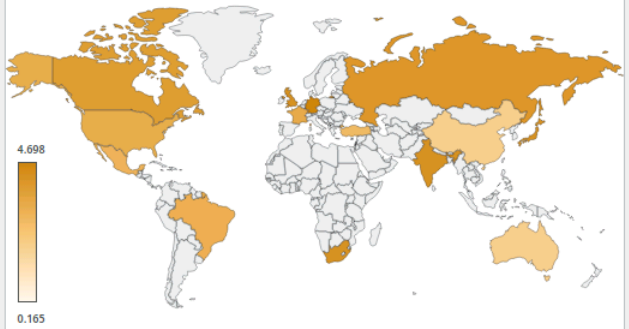
Page Load Count	19,822
Violation Percentage	<1%
Exceptions	851

Geography

Page Load Time (sec)

Edit



Application Map

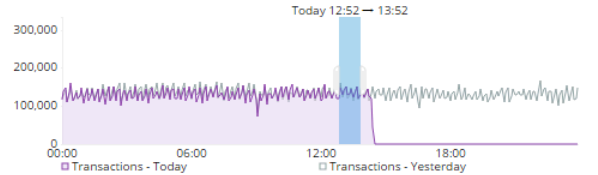
1:1 Fit

24 Hour Overview

Compared to Yesterday

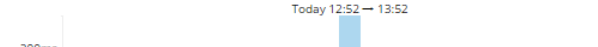
Transactions

Selected Time



Server Response Time

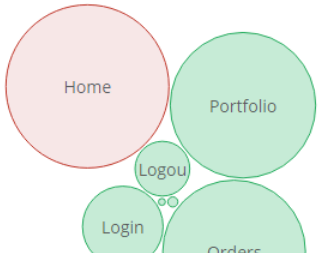
Selected Time



Top Transaction Types

Server Response Time/Transaction

Edit

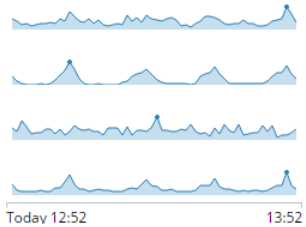


Top Servers

Server Response Time

Edit

TFDNPortal01	3.299s
TFDNSecure01	1.145s
TFDNConnect01	0.061s
TFDNDataAccess01	0.014s



Riverbed SteelCentral App

https://appinternals10-1.rpm.riverbedlab.net/#overview:time=24365452+60&ttTableKey=11

All Applications ›

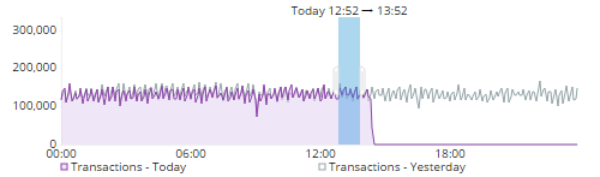
Today 12:52 — 13:52

24 Hour Overview

Compared to Yesterday

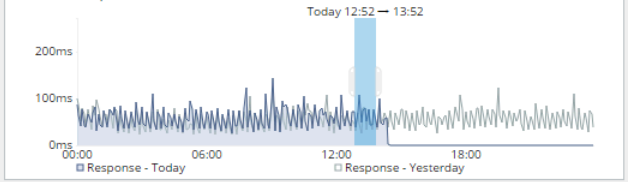
Transactions

Selected Time



Server Response Time

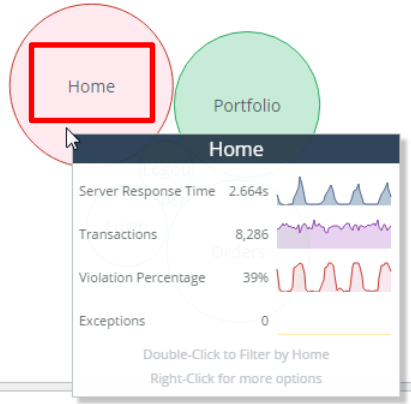
Selected Time



Top Transaction Types

Server Response Time/Transaction

Edit



Home

Top Servers

Server Response Time

Edit

TFDNPortal01	3.299s
TFDNSecure01	1.145s
TFDNConnect01	0.061s
TFDNDataAccess01	0.014s

Today 12:52 13:52

Recent Alerts

Last 7 Days

Transactional Alerts **0**

Environmental Alerts **734**

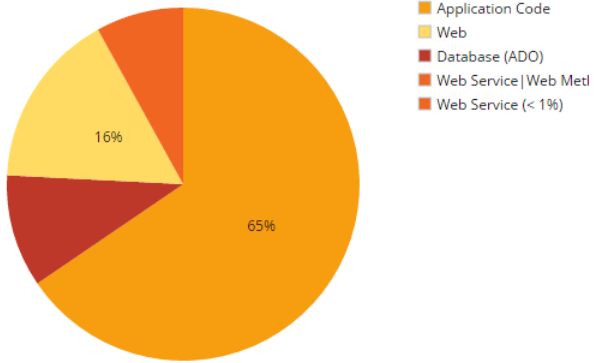
Last triggered at 2:16 PM

View Alert History

Server Delays

No Remote Delays

Edit



Top Instances

Memory Usage

Edit

ws#TradeFast	195.3 MiB
ws#CTTradingHouse	169.5 MiB
ws#CTSecure	51 MiB
ws#CTAuth	48.2 MiB
ws#CTStock	44.8 MiB

Today 12:52 13:52

Riverbed SteelCentral App

https://appinternals10-1.rpm.riverbedlab.net/#overview:time=24365452+60&ttTableKey=11

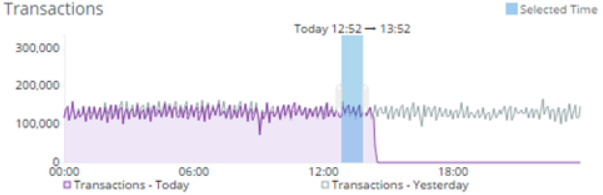
All Applications ›

Today 12:52 — 13:52

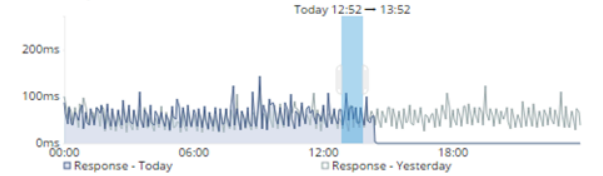
24 Hour Overview

Compared to Yesterday

Transactions



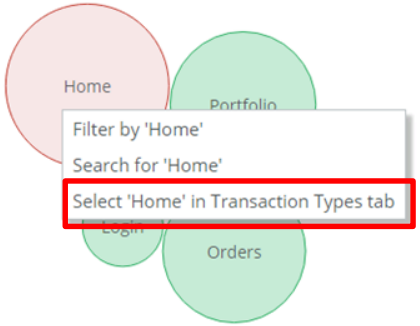
Server Response Time



Top Transaction Types

Server Response Time/Transaction

Edit



Top Servers

Server Response Time

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TFDNPortal01	3.299s
TFDNSecure01	1.145s
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Today 12:52 — 13:52

Recent Alerts

Last 7 Days

Transactional Alerts **0**

Environmental Alerts **734**

Last triggered at 2:16 PM

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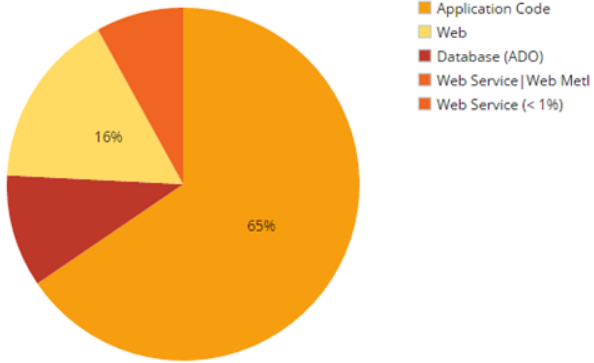
No Remote Delays

Edit



Top Instances

Memory Usage

Edit

ws#TradeFast	195.3 MiB
ws#CTTradingHouse	169.5 MiB
ws#CTSecure	51 MiB
ws#CTAuth	48.2 MiB
ws#CTStock	44.8 MiB

Today 12:52 — 13:52

Riverbed SteelCentral Ap

https://appinternals10-1.rpm.riverbedlab.net/#transactions:time=24365452+60&ttTableKey=11

All Applications ›

HOME ACCOUNT HELP

Today 12:52 → 13:52

Overview | Application Map | **Transaction Types** | Servers | Instances | Geography | Search

Transaction type	Server Response Time	Transactions	Page Load Time	Page Load Count	Violation Percentage	Exceptions
All 8 transaction types	***0.064s***	***1,626,502***	***3.381s***	***19,822***	***0.34%***	***851***
(No Transaction Type)	0.003s	1,602,268	0.000s	0	0.00%	0
Home	2.664s	8,286	2.907s	8,252	39.14%	0
Portfolio	11.088s	6,595	11.870s	3,252	31.16%	846
Orders	0.441s	6,346	0.572s	6,346	3.81%	0
Login	0.017s	2,027	0.664s	1,002	0.00%	0
Logout	0.002s	933	0.121s	928	0.00%	0
Stock Trade	0.371s	32	0.508s	32	3.13%	0
Analysis	0.368s	15	0.647s	10	0.00%	5

1 - 9 of 9

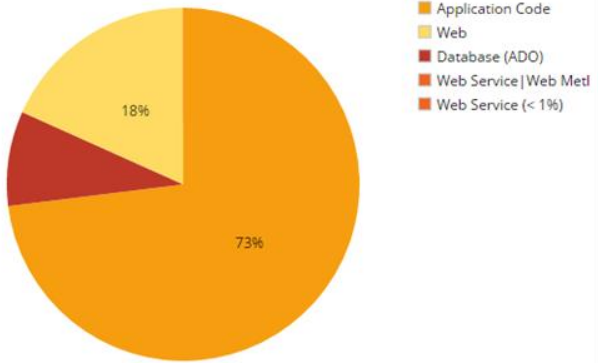
Application Map

1:1 Fit

Server Delays

No Remote Delays

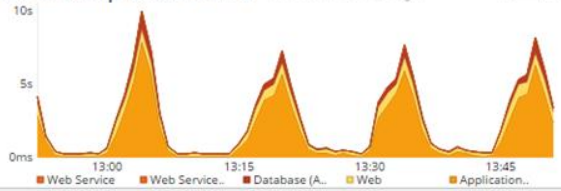
Edit



Server Response Time

No Remote Delays

Edit



Transactions

transactiontype='Home'

Analysis Search

Add Criteria » Show the top 10000 Slowest End-to-End Transactions For context (optional) Apply Global Filters

Refine Results

User
- 30s chuck.lebatt (165)
- 34s mary.ellis (148)
- 33s janet.griffin (147)
- 19s sam.anostegui (146)
- 34s sanju.sujanani (143)
- 34s sarah.connor (141)

show more...

User IP
- 30s 10.173.177.148 (165)
- 34s 10.173.177.122 (148)
- 33s 10.173.177.132 (147)
- 34s 10.173.177.118 (143)
- 34s 10.173.177.164 (141)
- 36s 10.173.177.134 (139)

show more...

URL Path
- 38s /TradeFast/Ho... (8286)

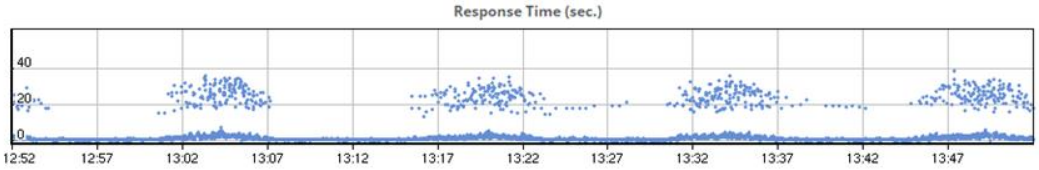
Transaction Type
- 38s Home (8286)

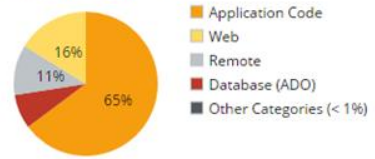
Server
- 38s TFDNPortal01... (8286)

Region

8,286 Matching Transactions

Share





Search Results

Matching Transactions

Edit

Response Time	Completion Time	Transaction Type	Server	Page Tag 1	Instance	Exceptions	URL Path	Server Delays	Page Load Delays	User
38.402	13:47:20	Home	TFDNPortal01.rpm.riverbedlab.net		ws#TradeFast		/TradeFast/Home.aspx			scott.montgomery
36.07	13:03:20	Home	TFDNPortal01.rpm.riverbedlab.net		ws#TradeFast		/TradeFast/Home.aspx			pratod.sadana
35.811	13:34:10	Home	TFDNPortal01.rpm.riverbedlab.net		ws#TradeFast		/TradeFast/Home.aspx			joe.mcelroy
35.567	13:21:12	Home	TFDNPortal01.rpm.riverbedlab.net		ws#TradeFast		/TradeFast/Home.aspx			hideki.watanabe
34.914	13:04:28	Home	TFDNPortal01.rpm.riverbedlab.net		ws#TradeFast		/TradeFast/Home.aspx			joe.mcelroy
34.886	13:04:46	Home	TFDNPortal01.rpm.riverbedlab.net		ws#TradeFast		/TradeFast/Home.aspx			brian.taylor
34.745	13:03:18	Home	TFDNPortal01.rpm.riverbedlab.net		ws#TradeFast		/TradeFast/Home.aspx			colin.lloyd
34.671	13:05:16	Home	TFDNPortal01.rpm.riverbedlab.net		ws#TradeFast		/TradeFast/Home.aspx			hideki.watanabe

Overview

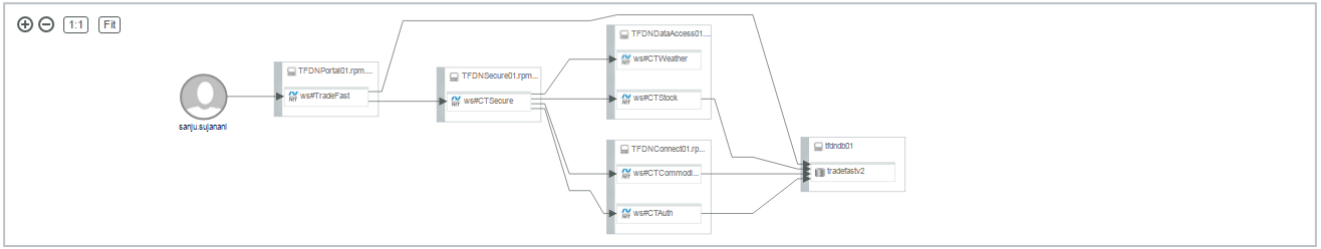
URL http://tradefastdn.rpm.riverbedlab.net/TradeFast/Home.aspx

19:04:20 Apr 25 2016

Page Load Time	38.096s
Server Response Time	37.783s
Exceptions	
HTTP Status	200
User	
User IP	10.173.177.118
Location	California, United States
Page Title	TradeFast Home
Transaction Type	Home

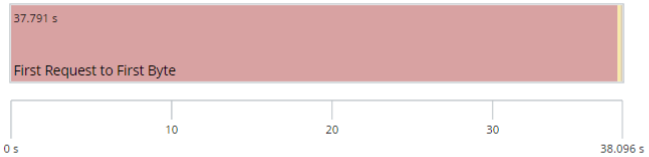
Summary

- The **slowest** back-end tier was **ws#CTSecure** (82% of back-end processing), which had an average **CPU usage of 98%**
- The **slowest** method was com.TradeFast.SecureService.StockRequestHandler.**CalculateGrowthRate** (53% of back-end processing)
- The **slowest** front-end component was Time to first byte (99%)

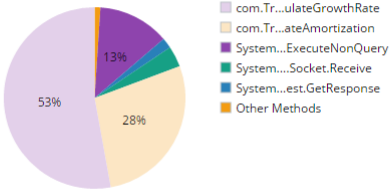


By Method

Page Load Delays



Method Delays



URLs

Inbound URLs

Duration	URL	Server	Instance
0.031s	/CTAuth/Service1.asmx	TFDNConnect01.rpm.riverbedlab.net	ws#CTAuth
0.016s	/CTAuth/Service1.asmx	TFDNConnect01.rpm.riverbedlab.net	ws#CTAuth
0.000s	/TradeFast/Home.aspx	TFDNPortal01.rpm.riverbedlab.net	ws#TradeFast
4.836s	/CTStock/Service1.asmx	TFDNDataAccess01.rpm.riverbedlab.net	ws#CTStock
0.015s	/CTWeather/Service1.asmx	TFDNDataAccess01.rpm.riverbedlab.net	ws#CTWeather
0.000s	/CTCommodityFutures/FuturesService.svc	TFDNConnect01.rpm.riverbedlab.net	ws#CTCommodityFutures
0.000s	/CTCommodityFutures/FuturesService.svc	TFDNConnect01.rpm.riverbedlab.net	ws#CTCommodityFutures
0.047s	/CTSecure/Service1.asmx	TFDNSecure01.rpm.riverbedlab.net	ws#CTSecure
35.771s	/CTSecure/Service1.asmx	TFDNSecure01.rpm.riverbedlab.net	ws#CTSecure

Outbound URLs

Top Calls

Top Calls

Group calls by method name

Total Active Time	Number of Calls	Class	Method	Category
19.983s	28	com.TradeFast.SecureService.StockRequestHandler	CalculateGrowthRate	Application Code
10.530s	1	com.TradeFast.SecureService.BondRequestHandler	CalculateAmortization	Application Code
4.805s	4	System.Data.SqlClient.SqlCommand	ExecuteNonQuery	Database (ADO)
1.405s	16	System.Net.Sockets.Socket	Receive	Remote
0.701s	7	System.Net.HttpWebRequest	GetResponse	Web
0.280s	57	System.Web.Hosting.PipelineRuntime	ProcessRequestNotification	Web
0.047s	9	com.TradeFast.Utils.Helper	GetRunConfigurationOption	Application Code
0.031s	4	System.Data.SqlClient.SqlCommand	ExecuteReader	Database (ADO)
0.016s	5	com.TradeFast.Utils.Helper	GetServiceURL	Application Code
0.015s	6	Microsoft.Practices.EnterpriseLibrary.Common.Configuration.ObjectBuilder.ConfiguredObjectStrategy	PreBuildUp	Application Code

Remote Calls

Active Time	Requesting Server	Requesting Instance	Requesting Port	Remote Address	Bytes Sent	Bytes Received

Table is empty

Call Tree

Call Tree | Call Search

Edit

Depth	Class	Method	Instance	Start Time	Active Time (s)	0s 45.4s	Exception	Parameter
8	com.TradeFast.U...gsSecureService	get_StockServiceURL	ws#CTSecure	19:03:51.069	0		-	-
8	com.TradeFast.S...ervice.Service1	GetStockDetails	ws#CTSecure	19:03:51.069	0		-	-
8	com.TradeFast.S...kRequestHandler	GetAnalystRecommendatiion	ws#CTSecure	19:03:56.217	0		-	-
9	com.TradeFast.U...gsSecureService	get_IsExecuteRecursion	ws#CTSecure	19:03:56.217	0		-	-
9	com.TradeFast.S...kRequestHandler	CalculateGrowthRate	ws#CTSecure	19:03:56.217	0.062		-	-
9	com.TradeFast.S...kRequestHandler	CalculateGrowthRate	ws#CTSecure	19:03:56.279	0.406		-	-
9	com.TradeFast.S...kRequestHandler	CalculateGrowthRate	ws#CTSecure	19:03:56.685	0.436		-	-
9	com.TradeFast.S...kRequestHandler	CalculateGrowthRate	ws#CTSecure	19:03:57.121	0.702		-	-
9	com.TradeFast.S...kRequestHandler	CalculateGrowthRate	ws#CTSecure	19:03:57.823	0.406		-	-
9	com.TradeFast.S...kRequestHandler	CalculateGrowthRate	ws#CTSecure	19:03:58.229	0.406		-	-
9	com.TradeFast.S...kRequestHandler	CalculateGrowthRate	ws#CTSecure	19:03:58.635	0.218		-	-
9	com.TradeFast.S...kRequestHandler	CalculateGrowthRate	ws#CTSecure	19:03:58.853	0.593		-	-
9	com.TradeFast.S...kRequestHandler	CalculateGrowthRate	ws#CTSecure	19:03:59.446	0.405		-	-

SQL

Group calls by statement

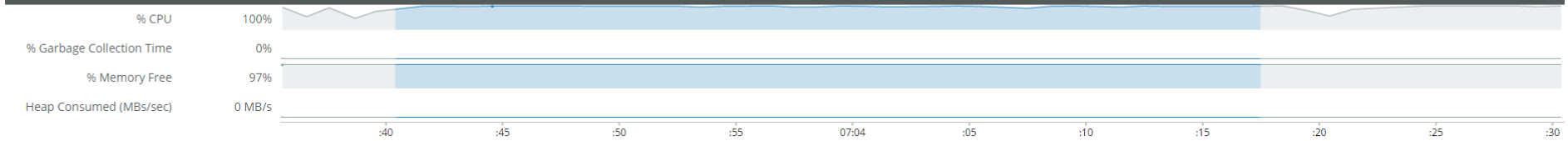
Total Duration	Number of Calls	SQL
4.805s	1	SELECT Q1.Symbol,Q1.Low,Q1.[Open],Q1.Volume,Q1.Price,Q1.High,Q1.CompanyName,Q1.Change FROM QuoteReporting Q1 CROSS JOIN QuoteReporting Q2 ;SELECT Q1.Symbol,Q1.Low,Q1.[Open],Q1.Volume,Q1.Price,Q1.High,Q1.CompanyName,Q1.Change FROM QuoteReporting Q1 CROSS JOIN QuoteReporting Q2 ;
0.031s	1	SELECT Symbol,Low,[Open],Volume,Price,High,CompanyName,Change, SecurityClassification FROM StockExchangeHongKong WHERE Symbol=@symbol;
0.000s	1	SELECT cf.commodityID, cf.commodityName, cf.units, cf.price, cf.changePercentage, cf.contractDate, cf.commodityFuturesTypeID,cft.futuresTypeName FROM commodityFutures cf INNER JOIN commodityFuturesType cft ON cft.FuturesTypeID = cf.commodityFuturesTypeID
0.000s	2	GetAuthToken
0.000s	1	UPDATE trader SET stockwatchlist='SEMAX,0147', stockExchangeName='Hongkong Stock Exchange' WHERE userid='sanju.sujanani'

Environmental Performance

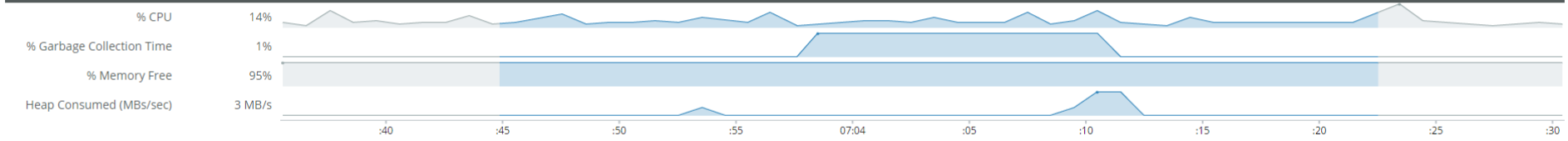
The highlighted region shows when this transaction occurred on the tier

Order tiers by Start Time +/- 5 seconds

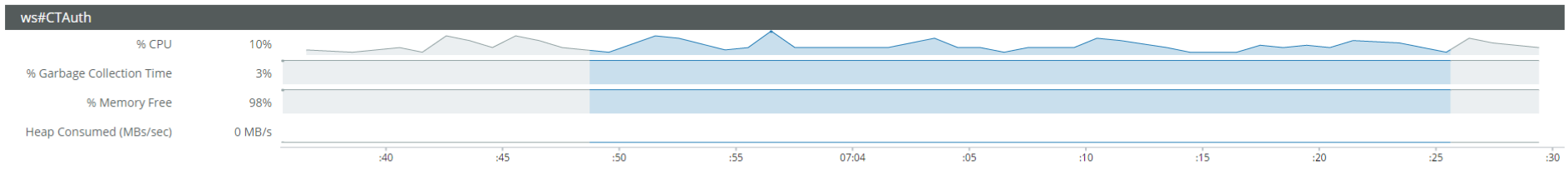
ws#CTSecure



ws#TradeFast



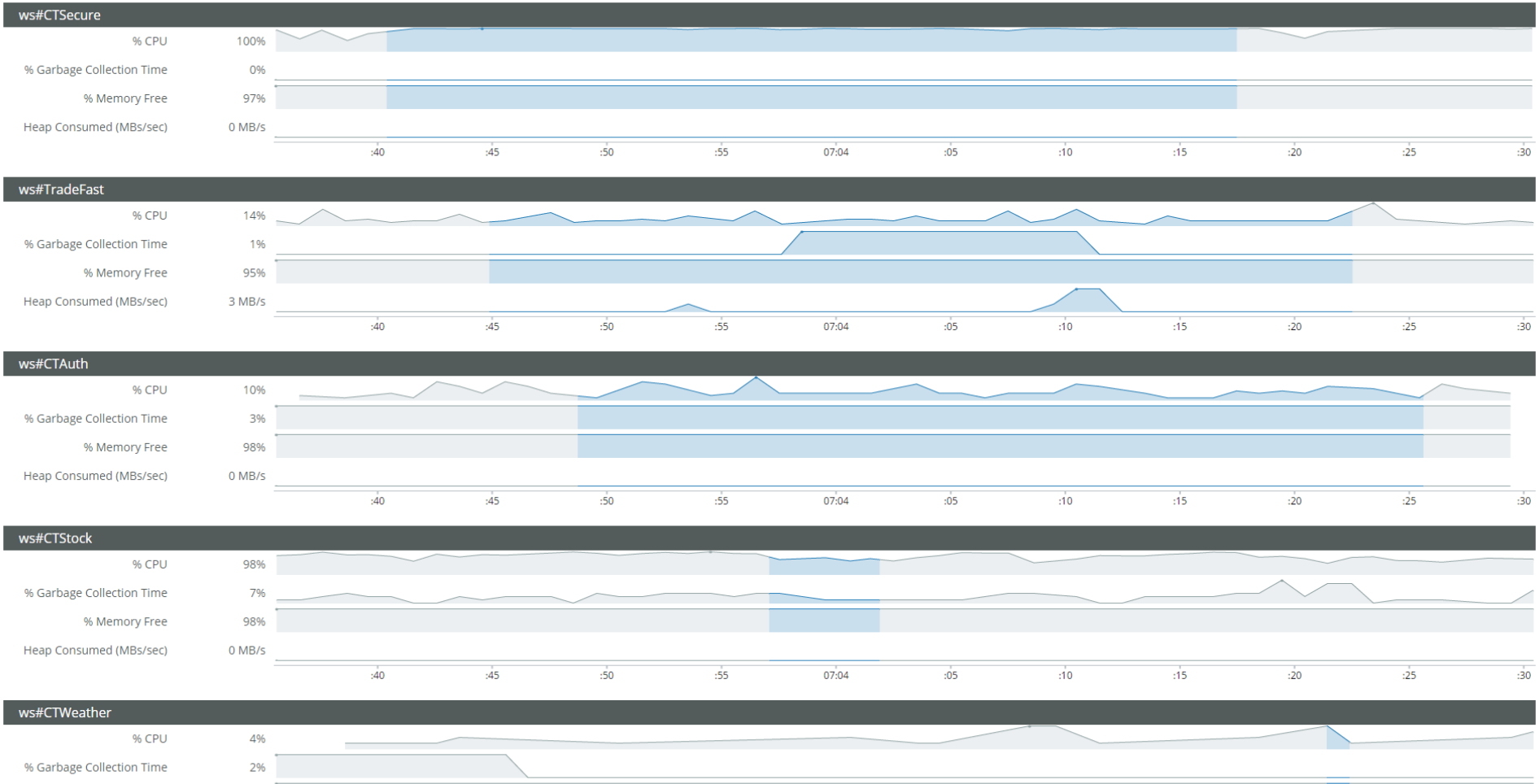
ws#CTAuth



Environmental Performance

The highlighted region shows when this transaction occurred on the tier

Order tiers by Start Time +/- 5 seconds



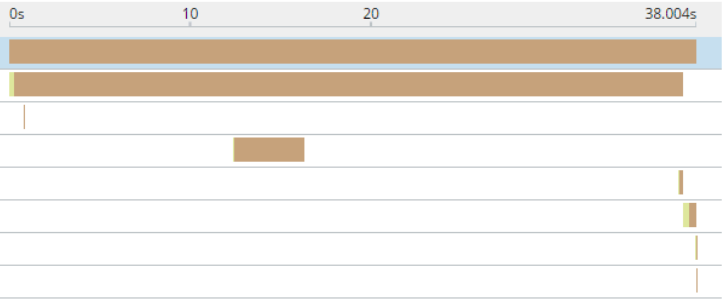
Resources

Filter by URL

All Documents Style Scripts XHR Images Media Fonts Other

Show server-to-server

URL	Status	Content Type	Size	Duration
tradefastdn.rpm.riverbedlab.net/TradeFast/Home.aspx	200	text/html	28.5 KiB	38.004s
tfdnsecure01.rpm.riverbedlab.net/CTSecure/Service1.asmx[method	200	text/xml	4.2 KiB	37.237s
tfdnconnect01.rpm.riverbedlab.net/CTAuth/Service1.asmx[method:	200	text/xml	800 B	0.053s
tfdndataaccess01.rpm.riverbedlab.net/CTStock/Service1.asmx[meth	200	text/xml	1.5 KiB	3.975s
tfdndataaccess01.rpm.riverbedlab.net/CTWeather/Service1.asmx[m	200	text/xml	890 B	0.256s
tfdnsecure01.rpm.riverbedlab.net/CTSecure/Service1.asmx[method	200	text/xml	6.7 KiB	0.747s
tfdnconnect01.rpm.riverbedlab.net/CTAuth/Service1.asmx[method:	200	text/xml	800 B	0.032s
tfdnconnect01.rpm.riverbedlab.net/CTCommodityFutures/FuturesS	200	text/xml	6.9 KiB	0.010s



Analysis Operators

View additional performance metrics for related transactions

View overview report for
- all runtime instances in this transaction
- all servers in this transaction

Interactively examine performance for
- all transactions on these instances
- all transactions on these servers

View response time and transaction rate over time for
- the entry point instance
- the entry point URL
- the entry point URL path

Summarize instances from this transaction
- for all transactions on these instances
- for all urlpaths from this transaction on these instances

View normal operating range for all transactions on these instances
- for response time

tfdnsecure01.rpm.riverbedlab.net/CTSecure/Service1.asmx[method	200	text/xml	6.7 KiB	0.747s
tfdnconnect01.rpm.riverbedlab.net/CTAuth/Service1.asmx[method:	200	text/xml	800 B	0.032s
tfdnconnect01.rpm.riverbedlab.net/CTCommodityFutures/FuturesS	200	text/xml	6.9 KiB	0.010s

Analysis Operators

View additional performance metrics for related transactions

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- the entry point URL
- the entry point URL path

Summarize instances from this transaction
- for all transactions on these instances
- for all urlpaths from this transaction on these instances

View normal operating range for all transactions on these instances
- for response time
- for transaction rate

View normal operating range on these servers
- for response time
- for transaction rate

For the 1,000 slowest transactions on these instances (computationally intensive), view
- processing time delays for these instances

For the slowest method in this transaction (com.TradeFast.SecureService.BondRequestHandler.CalculateAmortization), view
- total active time over time
- average response time over time

transactiontype = 'home' | calls

Analysis | Search

Add Criteria » Show the top 10000 Slowest Transaction Segments For context (optional) Apply Global Filters

Calls

Performance details of sqlfamily (if applicable) and method calls for the slowest 10,000 transactions, showing the top 50 class.methods.

Top 10,000 Slowest Matching Transactions:

Search: (transactiontype = 'home') | calls

Matching Transaction Count: **10,000**

Transaction Duration (avg): **4.26**

Transaction Duration (max): **39.17**

Transaction Duration (total): **42,629.81**

Total Processing Time	Processing Time/call	Maximum Processing Time	Total Duration	Duration/call	Maximum Duration	Method or SQL Family
14,632.69 (34%)	1.03	38.34	14,632.69 (34%)	1.03	38.34	System.Net.Sockets.Socket.Receive
7,888.70 (19%)	0.21	2.46	7,888.70 (19%)	0.21	2.46	com.TradeFast.SecureService.StockRequestHandler.CalculateGrowthRate
7,363.41 (17%)	0.52	36.85	7,363.41 (17%)	0.52	36.85	System.Net.Sockets.Socket.Receive (10.173.175.104)
6,283.17 (15%)	1.89	12.51	6,291.45 (15%)	1.89	12.51	com.TradeFast.SecureService.BondRequestHandler.CalculateAmortization
1,813.28 (4%)	0.17	8.77	1,813.28 (4%)	0.17	8.77	System.Net.Sockets.Socket.Receive (10.173.175.105)
1,729.27 (4%)	0.31	9.11	1,729.27 (4%)	0.31	9.11	System.Data.SqlClient.SqlCommand.ExecuteNonQuery
1,683.89 (4%)	0.08	0.86	25,674.19 (60%)	1.19	38.45	System.Net.HttpWebRequest.GetResponse
849.12 (2%)	0.01	2.46	84,620.33 (199%)	1.07	39.17	System.Web.Hosting.PipelineRuntime.ProcessRequestNotification
179.59 (0%)	0.02	1.29	179.59 (0%)	0.02	1.29	System.Net.Sockets.Socket.Receive (10.173.175.103)
56.34 (0%)	0.01	1.89	56.34 (0%)	0.01	1.89	com.TradeFast.Utils.Helper.GetRunConfigurationOption
52.44 (0%)	0.003	0.87	52.44 (0%)	0.003	0.87	com.TradeFast.Utils.Helper.GetServiceURL
41.90 (0%)	0.05	1.45	90.60 (0%)	0.10	2.59	com.TradeFast.Utils.Helper.RunDeploymentOption
9.49 (0%)	0.002	0.14	22,286.42 (52%)	4.57	39.17	ASP.home_aspx.BeginProcessRequest

Thank You

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