
Goliath for NetScaler

Proactive Citrix NetScaler Alerting, Analysis
and Reporting



"Having the ability to manage an enterprise NetScaler deployment from a single pane of glass is key to operational acceptance in most organizations. With GFN this is now possible and provides a great way of organizations to monitor, manage and plan their NetScaler designs and deployments. This purpose built platform is highly scalable for use in very large enterprises which further differentiates it from other alternatives."

Kyle Davies
Solutions Architect at CDW
Citrix Expert, Atlantis ACE, vExpert 2016

www.goliathtechnologies.com

GOLIATH
TECHNOLOGIES



NetScaler Customers



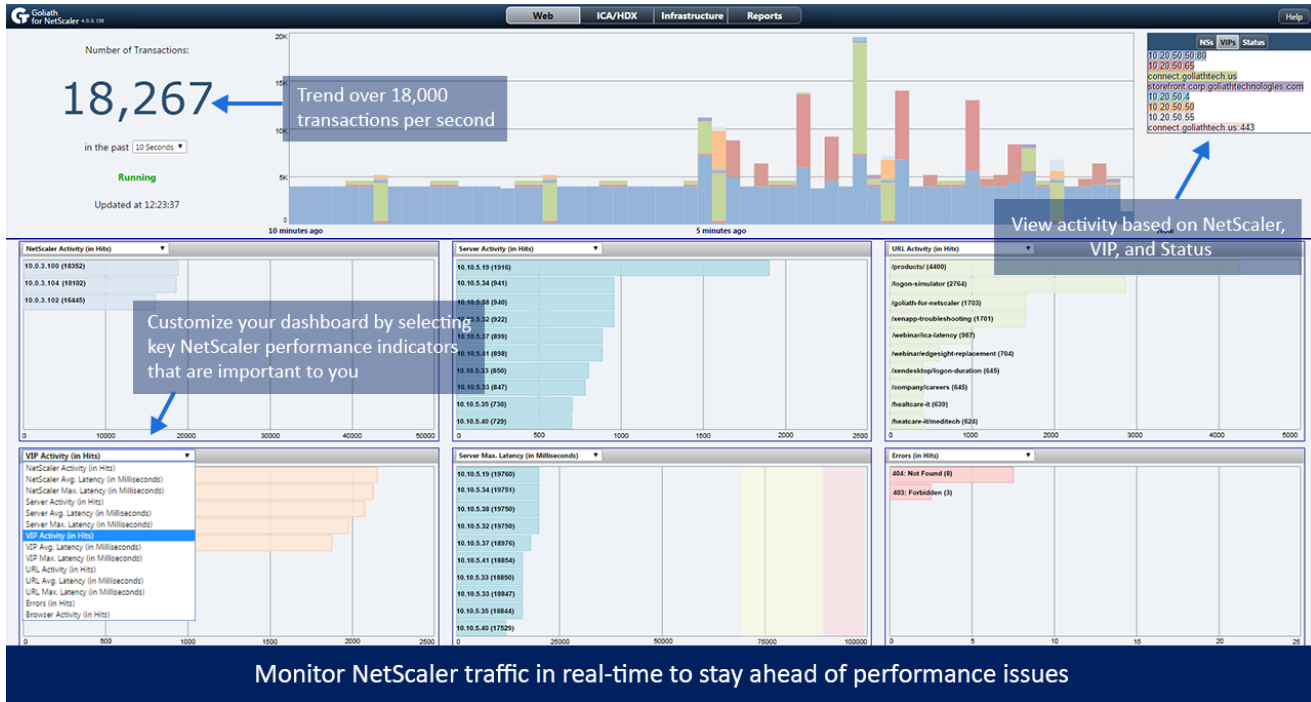
#483 Fortune 500



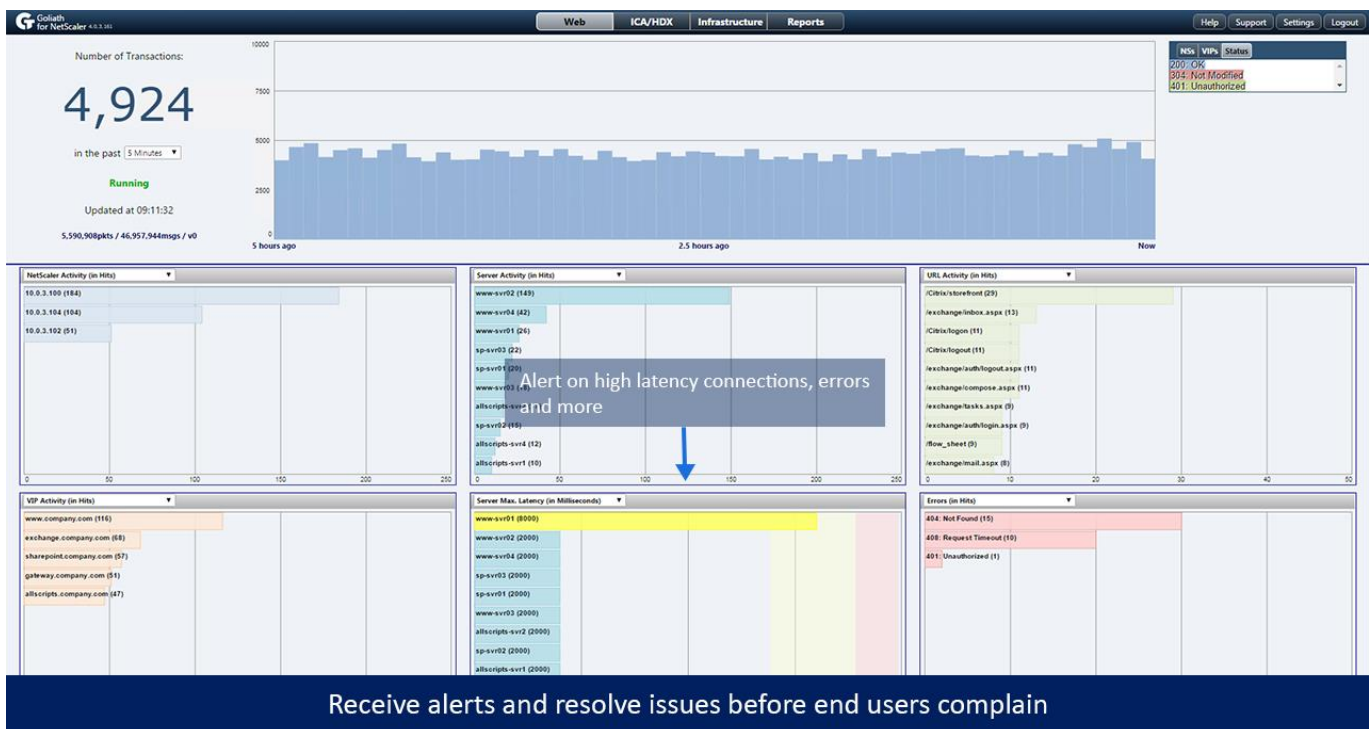
Proactive Citrix NetScaler Alerting, Analysis and Reporting

Realize the full potential of the NetScaler ADC, regardless if it is deployed as a Full Proxy, Load Balancer or VPN Gateway. Troubleshoot web applications and ICA/HDX sessions with live interactive dashboards, real-time threshold based alerts and unrestricted reports.

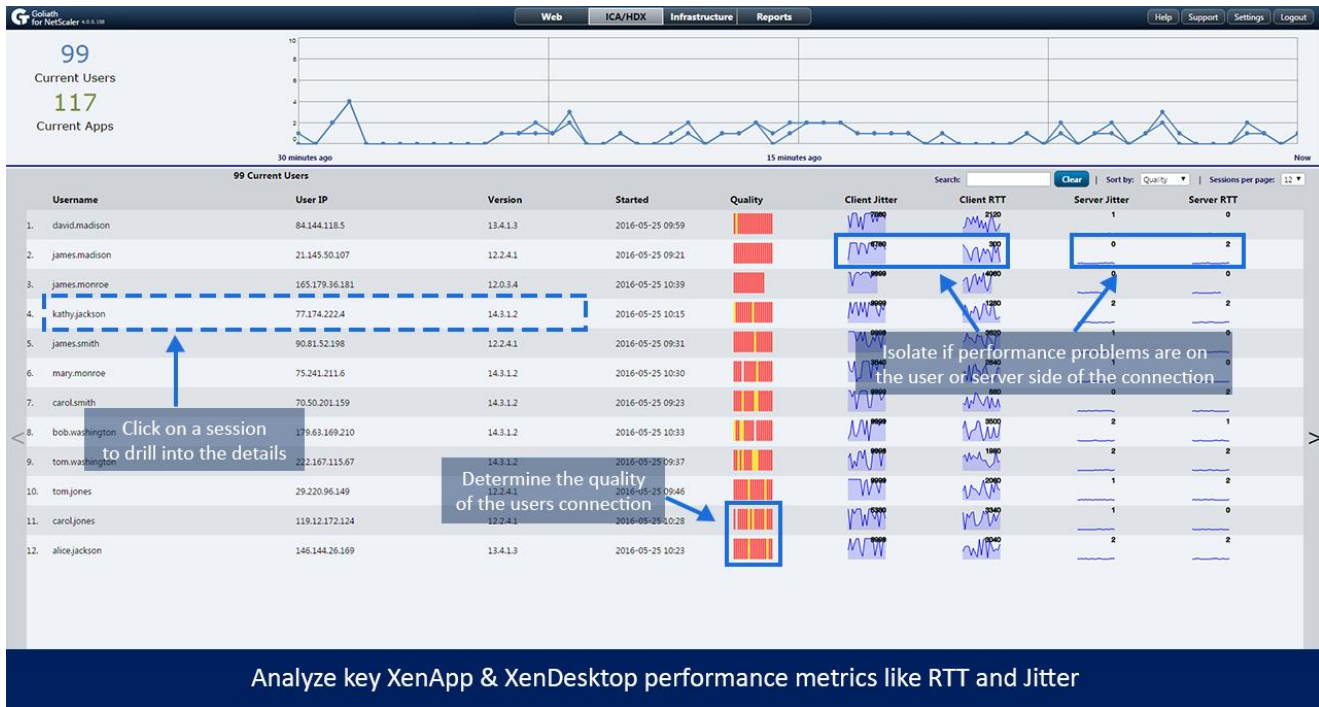
NetScaler Web Traffic & Load Balance Dashboard



NetScaler Web Traffic & Load Balance Alerting

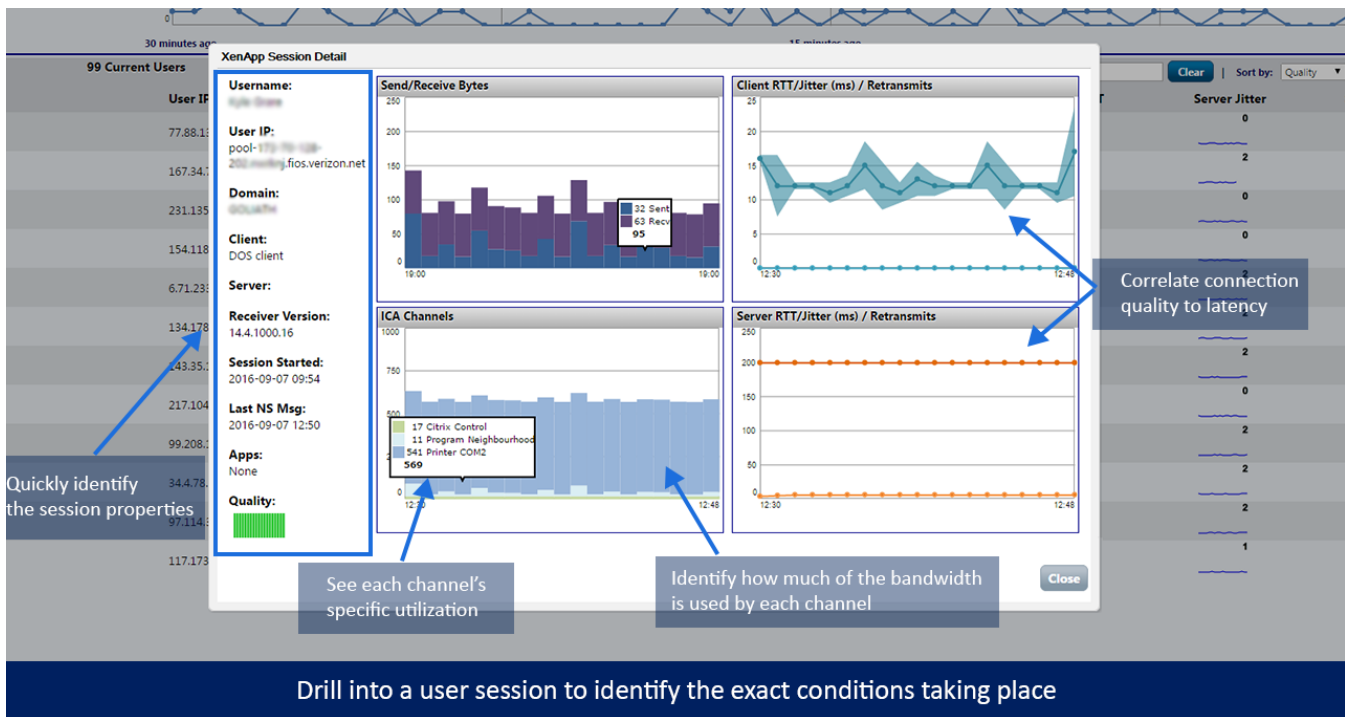


NetScaler Sessions Dashboard



Analyze key XenApp & XenDesktop performance metrics like RTT and Jitter

NetScaler Sessions Drill Down



Drill into a user session to identify the exact conditions taking place

NetScaler Performance Monitoring

The screenshot displays the 'Infrastructure' tab of the NetScaler Performance Monitoring interface. It features a search bar at the top right and a navigation menu with 'Web', 'ICA/HDX', 'Infrastructure', and 'Reports'. The main content area is divided into several sections:

- NetScalers 2:** A table listing two NetScaler devices with columns for Mgmt CPU Usage, Packet CPU Usage, Disk0 (flash) available space, Disk0 (flash) used percent, Disk1 (/var) available space, Disk1 (/var) used percent, HTTP Hits, Memory used percentage, Memory used MB, SSL transaction rate, and Num CPUs.
- NetScaler Hardware 2:** A table listing two hardware units with columns for Name, NetScaler, CPU Frequency, Manufacture Date, Description, Serial Number, SSL Cards, Number of CPUs, Fan 0 speed, Fan 1 speed, Fan 2 speed, and Fan 3 speed.
- Load Balancing Servers 16:** A table listing various servers with columns for Name, NetScaler, Active services, and Hit rate.
- VPN Virtual Servers 2:** A table listing two VPN servers with columns for Name, NetScaler, VPN Request Rate, VPN Request Total, VPN Response Rate, and VPN Response Total.
- AppFlow Policies 0:** A section with a plus sign and zero items.
- Basic Servers 0:** A section with a plus sign and zero items.
- Basic Services 20:** A table listing various services with columns for Name, NetScaler, State, Request Rate, Response Rate, Throughput (Mbps), and Total Requests.
- GSLB Servers 0:** A section with a plus sign and zero items.
- AAA 2:** A table listing two AAA configurations with columns for Name, NetScaler, AAA Auth Failures, AAA Auth Failure Rate, AAA Auth Successes, AAA Auth Success Rate, AAA Sessions, and AAA ICA Sessions.

Annotations on the screenshot include:

- A blue arrow pointing to the search bar with the text: "Filter the display by faults and errors or your configured favorites".
- A blue arrow pointing to the 'NetScaler' column in the hardware table with the text: "Quickly track CPU, disk, memory, and SSL usage".
- A blue arrow pointing to the 'AAA' section with the text: "Monitor NetScaler authentication".

The Infrastructure display provides a single pane of glass for IT administrators to view their entire NetScaler deployment, track NetScaler resource utilization across multiple NetScalers, and the load of configured features

NetScaler Unlimited Historical Reporting

The screenshot displays the 'Reports' tab of the NetScaler Unlimited Historical Reporting interface. It features a navigation menu with 'Web', 'ICA/HDX', 'Infrastructure', and 'Reports'. The main content area includes:

- A 'Time Period' dropdown menu set to 'Historical ...'.
- A 'GOLIATH TECHNOLOGIES' logo and 'NetScaler Detail' section with a 'Live Report for Previous 1 hours' label.
- A 'Specify Time Range for Historical Report' dialog box with two calendar pickers for 'Start date/time' and 'End date/time'. The start date is 2016 May 21 and the end date is 2016 Jun 21. Below the calendars are time pickers for '5:00pm' and a '5:00pm' dropdown. 'Cancel' and 'OK' buttons are at the bottom.
- A 'Define a custom reporting time period' annotation with a blue arrow pointing to the dialog box.
- A line graph showing data points at 10:26, 10:34, and 10:50.
- A 'NetScaler Details' table with columns: Name, Hits, Errors, Avg Time (ms), Max Time (ms), and Max Size (bytes). The data row shows: 10.20.1.20, 167, 5, 1,140, 34,000, 7,133.
- A section for 'Virtual Server (VIP)s connected to this NetScaler'.

Annotations on the screenshot include:

- A blue arrow pointing to the 'Specify Time Range for Historical Report' dialog box with the text: "Define a custom reporting time period".

Easily select the time frame for the pre-configured report with no restriction on time frames

NetScaler Alerting & Reporting Configuration

Administration | Help | Support | Settings | Logout

1. Licensing
 Enter your IT Analytics for NetScaler license key.
 License Key: TEMP KEY
 Number of NetScalers: 2
 Expiration Date: 2015 Sep 25
 Update License Key

2. Software Version
 Current Version: 3.5.0
 Build Number: 152
 Check For Updates

3. NetScaler Version
 Default Version: 11.0
 Update Version

4. Time Zone
 Select your time zone by region and city
 TZ: America/New_York
 Update Timezone

5. Data Retention
 Select the number of days to retain data
 Days: 90 Days
 Update Retention Period

6. NetScaler Setup
 Enable Analytics on a NetScaler

7. LDAP / Active Directory
 Use LDAP
 Server: _____
 Org Units: _____
 Domain: _____
 Update LDAP

8. Thresholds and Alerts
 Syslog Server: _____
 Set Syslog Server

9. NetScaler Appliances
 These NetScalers will be monitored using the NetScaler API to gather metrics and information.
 VPX-_____
 VPX-_____
 New Edit Delete

Users | Add | Delete

Username	Last Login
supportadmin	
supportuser	
guest	2016 Oct 11
admin	2016 Oct 11
admin	2016 Oct 11

Configure alert thresholds

Define data retention settings for historical reporting

Manage the alerting, reporting, and product security from the Administration console

Citrix XenApp & XenDesktop Sessions Report

GOLIATH TECHNOLOGIES | Web | ICA/HDX | Infrastructure | Reports | Help | Support | Settings | Logout

Time Period: Previous 1 Hour

Reports
 Name
 Web: URL Activity | Previous 1 Hour
 Web: Server Activity | Previous 4 Hours
 Web: Virtual Server | Previous 8 Hours
 Web: NetScaler Act | Previous 24 Hours
 Web: Browser/Client | Previous 3 Days
 Web: Browser/Client | Previous 5 Days
 Web: Browser/Client | Previous 7 Days
 Web: Browser/Client | Historical ...
 Web: User Activity
 Web: Status Code Summary

XenApp/XenDesktop Sessions
 Live Report for Previous 1 hours

Customize data retention settings (1 week, 1 month, 1 year, etc)

Identify which users have experienced problems over time

Search for a specific XenApp user

Summary of user sessions

User	User Machine	Receiver	Start Time	End Time	User Machine Name	Client Type	Domain	ServerSent Bytes	Recv. Bytes	Avg. C/RTT	Avg. S/RTT	Avg. C/Jitter	Avg. S/Jitter
User 1	static-71-185-167-173.phila.fios.verizon.net	14.5.0.10018	10/11/16 10:05:00	10/11/16 15:05:26	LT-XXXXXX	1	goliath.com	2,325,744	101,096	22	1	0	0
User 2	static-71-185-167-173.phila.fios.verizon.net	14.5.0.10018	10/11/16 10:02:36	10/11/16 11:53:41	LT-XXXXXX	1	goliath.com	115,844,538	403,661	19	8	2	2
User 3	static-71-185-167-173.phila.fios.verizon.net	14.5.0.10018	10/10/16 13:51:03	10/11/16 09:58:36	LT-XXXXXX	1	goliath.com	26,955,173	683,078	20	1	1	0
User 4	pool-72-76-127-224.nwrknj.fios.verizon.net	14.4.1000.16	10/06/16 15:43:37	10/11/16 09:34:36	goliath.com DEV01	1	goliath.com	50,233,875	3,456,675	7	3	0	0
User 5	Unknown Device	Unknown	10/05/16 09:41:42	10/11/16 08:53:30		0		15,211,747,229	95,213,509	7	9	0	0
User 6	static-71-185-167-173.phila.fios.verizon.net	14.5.0.10018	10/10/16 08:16:41	10/10/16 16:32:18	LT-XXXXXX	1	goliath.com	80,031,471	833,975	20	1	2	0
User 7	63.254.157.228	14.5.0.10018	10/10/16 09:26:14	10/10/16 13:42:01	VDI-PERF010	1	goliath.com	4,929,820	257,535	1	1	0	0
User 8	static-71-185-167-173.phila.fios.verizon.net	14.5.0.10018	10/10/16 08:21:08	10/10/16 13:39:47	LT-XXXXXX	1	goliath.com	51,729,720	1,164,181	18	1	1	0
User 9	static-71-185-167-173.phila.fios.verizon.net	14.5.0.10018	10/06/16 14:17:40	10/10/16 09:22:34	LT-XXXXXX	1	goliath.com	855,691,587	1,779,504	16	1	0	0
User 10	Unknown Device	Unknown	10/05/16 09:41:23	10/08/16 20:52:42		0		23,587,806	2,495,764	11	1	0	0
User 11	pool-72-76-127-224.nwrknj.fios.verizon.net	14.4.1000.16	10/07/16 09:04:16	10/08/16 09:06:23	goliath.com DEV01	1	goliath.com	126,862,382	300,921	7	1	1	0
User 12	static-71-185-167-173.phila.fios.verizon.net	14.5.0.10018	10/07/16 09:07:37	10/07/16 19:24:43	LT-XXXXXX	1	goliath.com	2,012,173,608	14,918,987	17	1	2	0
User 13	static-71-185-167-173.phila.fios.verizon.net	14.5.0.10018	10/07/16 11:40:30	10/07/16 13:57:29	LT-XXXXXX	1	goliath.com	9,804,691	243,181	19	1	3	0
User 14	static-71-185-167-173.phila.fios.verizon.net	14.4.1000.16	10/07/16 09:34:14	10/07/16 10:54:52	LT-XXXXXX	1	goliath.com	72,021	54,226	20	1	0	0
User 15	c-73-10-236-96.houston.tx.comcast.net	12.1.100.35045	10/05/16 09:10:38	10/07/16 09:32:31	Users MacBook Air 82	1	goliath.com	13,382,826,716	37,742,717	24	1	19	0
	static-71-185-167-173.phila.fios.verizon.net	14.5.0.10018	10/06/16	10/07/16	LT-XXXXXX	1	goliath.com	131,815,137	2,743,039	20	2	1	1

Report on session performance to identify problems and determine how frequently issues occur

NetScaler Virtual Server Activity Report

Virtual Server (VIP) Detail
Live Report for Previous 1 hours

Description
Details about this Virtual Server (VIP)

Web Traffic Timeline

Virtual Server (VIP) Details

Name	Hits	Errors	Avg Time (ms)	Max Time (ms)	Max Resp
www.company.com	7,919	1,384	1,150	8,500	204,800

NetScalers connected to this Virtual Server (VIP)

Name	Hits	Errors	Avg Time (ms)	Max Time (ms)	Max Resp
10.0.3.100	6,320	1,096	1,142	8,500	204,800

Servers connected to this Virtual Server (VIP)

Name	Hits	Errors	Avg Time (ms)	Max Time (ms)	Max Resp
www.sxy03	1,596	280	1,084	2,000	204,800
www.sxy04	1,596	288	1,092	2,000	204,800
www.sxy02	1,580	271	1,120	2,000	204,800
www.sxy01	1,558	257	1,273	8,500	204,800

Web URLs connected to this Virtual Server (VIP)

Name	Hits	Errors	Avg Time (ms)	Max Time (ms)	Max Resp
/products/vdi/mware-view/	219	0	1,061	2,000	204,800
/products/virtual-servers/	217	0	1,177	2,000	204,800
/products/storage/	213	0	2,379	8,500	203,776
/products/physical-servers/	204	0	1,069	2,000	204,800
/products/network/	201	0	1,139	2,000	204,800

Drill into the Virtual Server (VIP) Report for additional detail

Live Share Feature

Web: Virtual Server (VIP) Activity
Live Report for Previous 1 hours

Description
This shows activity details for each VIP. Click on any item to see details for that item. Click on column headers to sort the data by that column.

Virtual Server Activity

VIP	Hits	Errors	Avg Time (ms)	Max Time (ms)	Max Size (bytes)
www.company.com	9,030	1,650	1,142	8,500	204,800
exchange.company.com	4,642	72	1,099	2,000	204,800
slaskus.wdtsktr.com	4,500	0	1,059	2,000	204,800
sharepoint.company.com	4,493	0	1,107	2,000	204,800
goliteay.com	4,430	0	1,099	2,000	204,800

Share **Print** **CSV**

Collaborate with team members by sharing live reports and data

Goliath for NetScaler maintains the VIP relations of the transaction for troubleshooting and reporting on VIP activity

Quickly share in real-time and export key metrics from reports to team members and management to view

Take a look at last week's VIP activity.
<http://gfdemo.goliathtechnologies.com/report?rtid=145&prid=0&ptid=0&period=1&sc=3>

NetScaler User Activity Detail

User Detail
Live Report for Previous 4 hours

Web Traffic Timeline

User Details

Name	Hits	Errors	Avg Time (ms)	Max Time (ms)	Max Size (bytes)
10.30.22.134	341	341	1,135	2,000	204,800

NetScalers connected to this User

Name	Hits	Errors	Avg Time (ms)	Max Time (ms)	Max Size (bytes)
10.0.3.100	341	341	1,135	2,000	204,800

Virtual Server (VIP)s connected to this User

Name	Hits	Errors	Avg Time (ms)	Max Time (ms)	Max Size (bytes)
exchange.company.com	341	341	1,135	2,000	204,800

Servers connected to this User

Name	Hits	Errors	Avg Time (ms)	Max Time (ms)	Max Size (bytes)
www.svr02	341	341	1,135	2,000	204,800

Web URLs connected to this User

Name	Hits	Errors	Avg Time (ms)	Max Time (ms)	Max Size (bytes)
exchange/auth/login.aspx	75	75	1,000	2,000	199,680

Browsers connected to this User

Name	Hits	Errors	Avg Time (ms)	Max Time (ms)	Max Size (bytes)
Citrix Receiver 3 (Unknown)	8	8	1,116	1,800	189,440
MSIE 6 (Microsoft)	8	8	767	1,100	199,680

Get full visibility into the user's endpoint OS, the browser they used to access Citrix or content on their experience

NetScaler Web Status Code Summary

Web: Status Code Summary
Live Report for Previous 1 hours

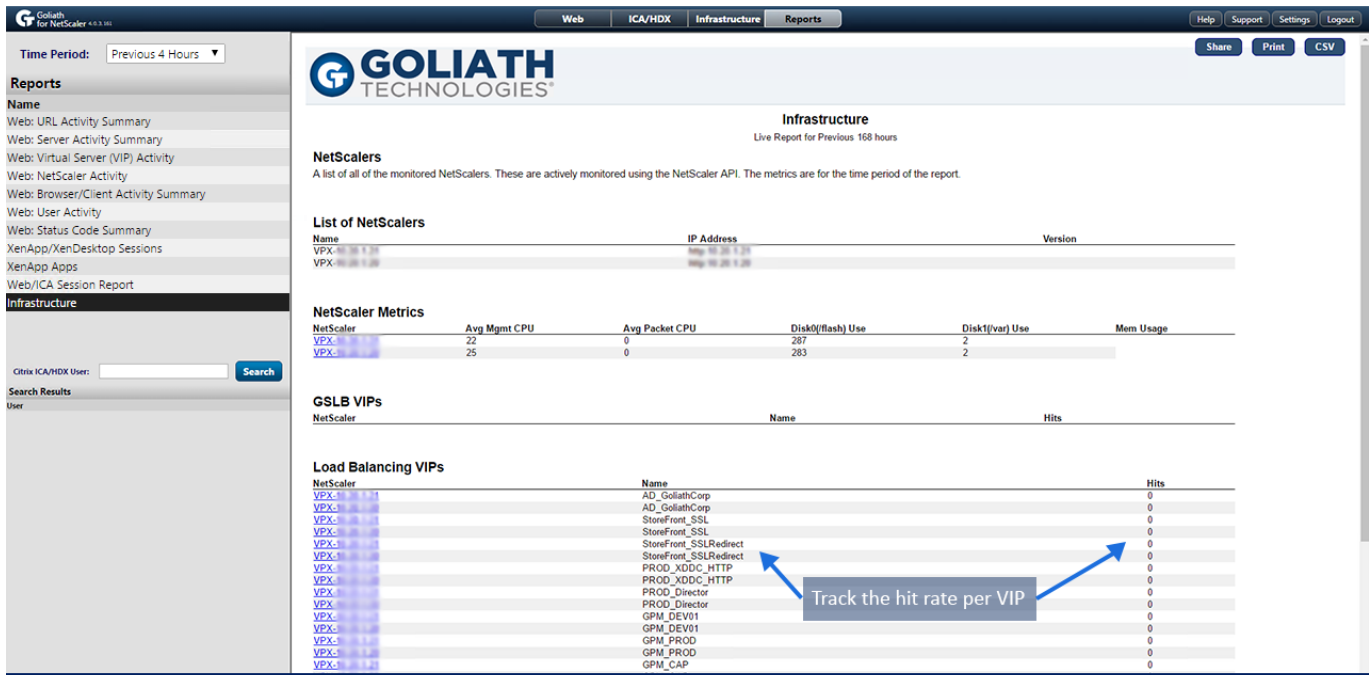
Description
This report shows all status codes that were returned.

Status Codes

URL	Hits	Avg Time (ms)	Max Time (ms)	Max Size (bytes)
200 - OK	37,907	31,251	300,000	2,349,342
401 - Unauthorized	37,487	13	1,000	3,360
404 - Not Found	1,400	6	1,000	2,800
304 - Not Modified	550	16	1,000	1,532
400 - Bad Request	368	5	1,000	3,845
500 - Internal Server Error	87	31	1,000	1,544
403 - Forbidden	76	21	1,000	3,131
301 - Moved Permanently	64	93	2,000	1,080
302 - Found	32	279	2,000	848
405 - Method Not Allowed	17	0	0	1,685
206 - Partial Content	12	0	0	1,444
409 - Conflict	8	8,000	44,000	1,091
501 - Not Implemented	2	0	0	1,821

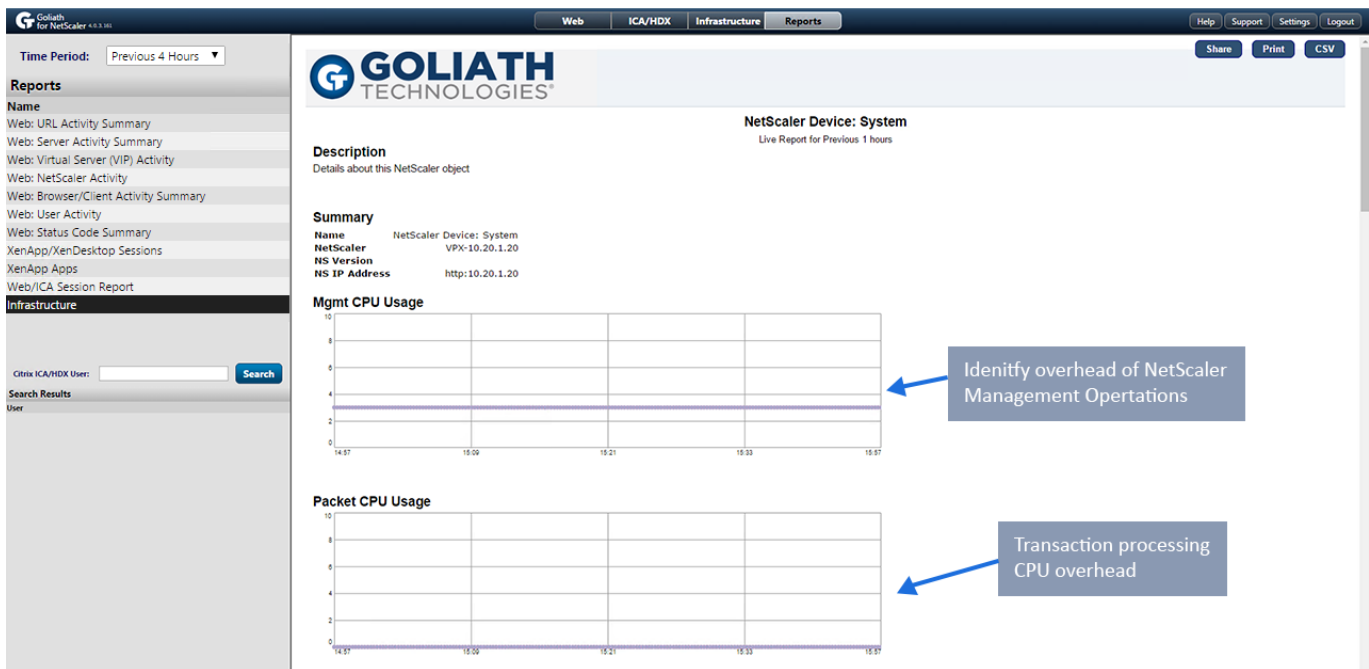
Identify failed user activity and the errors they encountered

NetScaler Infrastructure Report



The Infrastructure report allows administrators to report on NetScaler performance to identify if a problem had existed in the past

NetScaler Device Performance Trends



Administrators can trend resource utilization over time to identify how performance correlates to bottlenecks. This report trends CPU, Disk, Memory Used, HTTP Hits, SSL, and NUM CPUs

Goliath for NetScaler provides:

Real Time Dashboards | LIVE SHARE | Historical Reports | ALERTS

Applications & VIP Metrics

- Activity by Application/VIP Transaction
- Transaction Response Time
- User's IP Address
- Historical Usage Trends
- Web Browser Used
- Faults by Error Code
 - 4xx, 5xx, etc.

Web Services

- Activity by Site and URL
- Page Latency
- Number of Connections
- Pages Viewed
- Visit Date/Time
- 4xx Page Errors
- Transaction Response Time
- Faults by Error Code
 - 4xx, 5xx, etc.

NetScaler Performance & Activity

- Performance
 - NetScaler CPU, Memory & Network Utilization
 - VIP & Service Status
 - VIP & Service Performance & Resource Utilization
- Activity
 - Transactions per NetScaler
 - Transaction Load Time
 - Server versus NetScaler Traffic
 - Server Load Requests
- **Single View for Resource Management**

XenApp/XenDesktop

- ICA RTT –Client & Server
- Jitter - Client & Server
- Retransmits – Client & Server
- Bandwidth Usage
- Citrix Receiver Version
- User IP Address
- Applications Launched
 - Name of Published Application
 - Frequency of Use
 - Unique Users
- Length of Session
- Historical User Trends