

# Proactive VDI Performance Monitoring

**“Visibility into virtual desktop environments for a consistent user experience”**



Because of Goliath’s status as a Citrix Ready partner, our mutual customers can be assured that the proactive monitoring capabilities in Goliath Performance Monitor complement the management and monitoring tools in XenDesktop and XenApp, allowing IT to have visibility into virtual desktop environments for a consistent user experience.

**Greg Fox**  
**Director, Citrix Ready**

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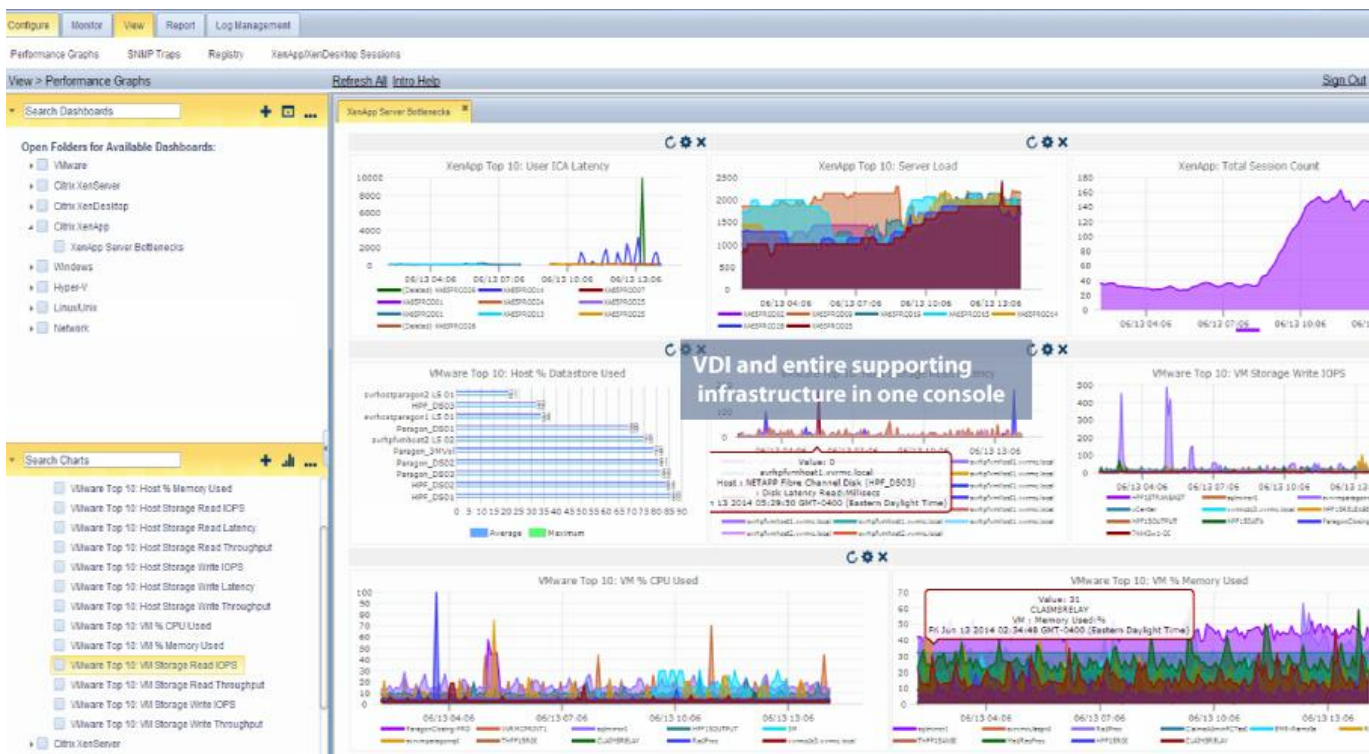
**GOLIATH**  
TECHNOLOGIES

# Proactive VDI Performance Monitoring

Goliath Performance Monitor is the only IT performance monitoring solution that brings together Citrix XenApp & XenDesktop data and metrics from the underlying delivery infrastructure in a single console.

Goliath Performance Monitor is preconfigured to proactively find and monitor common Citrix XenApp & XenDesktop, Infrastructure, and Role Server failure points. This allows you to proactively anticipate, troubleshoot, resolve, and prevent performance issues in the most complex environments.

## VDI and Entire Supporting Infrastructure in One Console



## Alert Resolution Feature

The screenshot shows the "Alert Resolution Feature" interface within the Goliath Performance Monitor. It includes a list of monitoring rules on the left and a central dialog box for specifying monitoring rule parameters and properties.

**Alert Resolution Notes:**

1. Start Registry Editor.
2. Locate and then click the following registry subkey: HKEY\_LOCAL\_MACHINE\System\CurrentControlSet\Services\TermService\Parameters
3. Export a copy of the Parameters key and below (just in case)
4. Under this Parameters registry subkey, delete the following values: Certificate, X509 Certificate, X509 Certificate ID
5. Quit Registry Editor, and then restart the server.

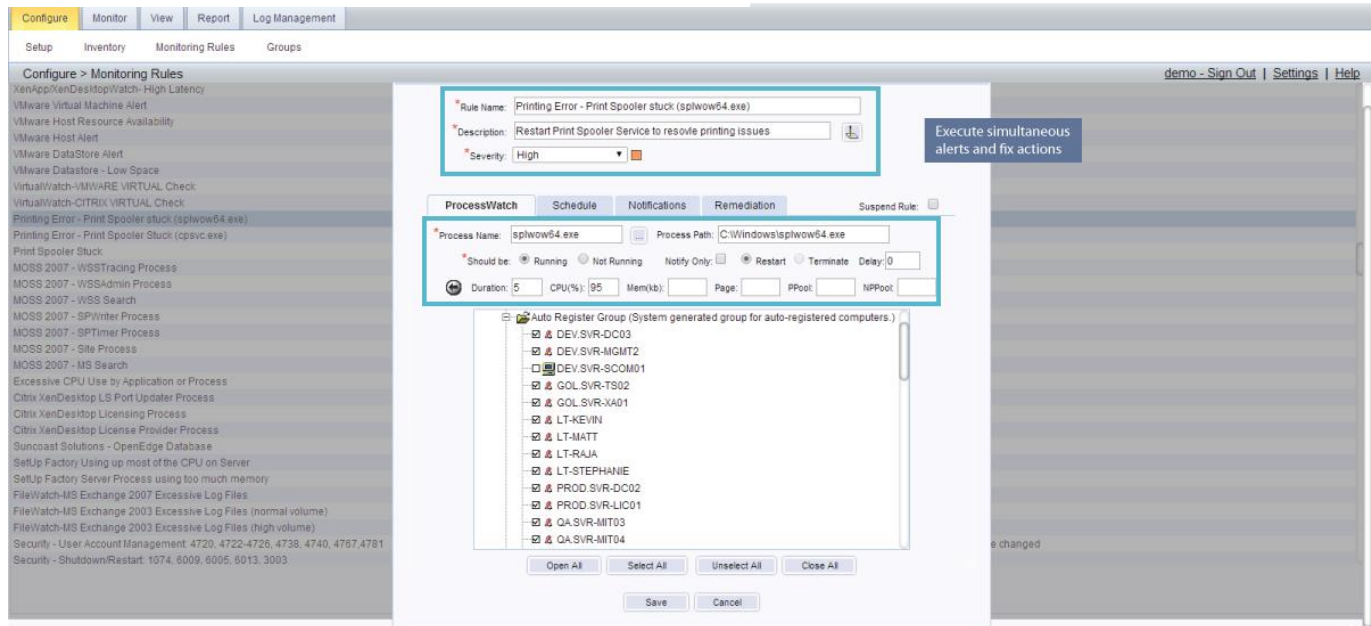
Also, see if you have any other events that relate to TS licensing issues. It's possible that the grace period has expired and that this server has never successfully contacted the TS Licensing server

You can manually specify a TSLs for testing to over-ride the TSLs discovery process: <http://support.microsoft.com/Default.aspx?kbid=279561>

A callout box points to the notes with the text: "Save remediation instructions in Alert Resolution Feature".

At the bottom, a banner reads: "Remediation instructions included with alerts to ensure consistency of fix actions and reduce resolution time".

# Simultaneous Alerting and Remediation



# Embedded Monitoring Intelligence for Common Failure Points

Rule Name	Type	Severity	Description
Printing Error - Printer, Driver, Print Security Errors	EventLogWatch	Normal	This rule performs system level printe
Printing Error - Windows Print Spooler Crash	EventLogWatch	Critical	splwow64.exe, Citrix Print Manager se
Profile Error - Cannot load the local profile	EventLogWatch	Caution	Profile failed to load due to insufficien
Profile Error - Citrix Profile Management Errors	EventLogWatch	Caution	Profile failed to load due to insufficien
Profile Error - Folder Redirection Errors	EventLogWatch	Caution	Profile failed to load due to insufficien
Profile Error - Group Policy Processing Failed	EventLogWatch	High	Profile failed to load due to insufficien
Profile Error - Insufficient Rights or Corrupt Profile	EventLogWatch	High	Profile failed to load due to insufficien
Profile Error - Local Profile Backed Up	EventLogWatch	Caution	Local User Profile failed to load and w
Profile Error - Local Profile Failed to Load and was Backed Up	EventLogWatch	Normal	cannot load the local profile - profile b;
Profile Error - Logging User on with a Temporary Profile	EventLogWatch	Caution	Local User Profile failed to load and u
Profile Error - Registry Classes File Cannot Load	EventLogWatch	Caution	Cannot load classes registry file
Profile Error - Registry Load Failure	EventLogWatch	Caution	Registry failed to load due to insufficie
Profile Error - Temporary Profile Loaded	EventLogWatch	Caution	Logging user on with a temporary prof
Profile Error - User Home Directory Path Not Accessible/Does Not Exist	EventLogWatch	High	Terminal Services User Home Directo
Profile Error - User Store Cannot Be Reached	EventLogWatch	High	The User Profile Store cannot be read
Profile Error - Windows Folder Redirection Failed	EventLogWatch	Caution	Failed to apply the policy and redirect
Profile Error - Windows Folder Redirection Failed; Access Denied	EventLogWatch	Critical	Failed to perform redirection of folder;
Profile Error - Windows Profile Used Instead of CPM Profile	EventLogWatch	High	CPM could not monitor the profile of a
Profile Error - Windows User Profiles Service Errors	EventLogWatch	Normal	Windows User Profiles Service Errors
Program Needs More Memory	EventLogWatch	Caution	Monitor Program Needs More Memory
PVS Write Cache Low	CounterWatch	High	Write Cache on XenApp & XenDesktop
RDS Failure - RDP Protocol Error; Session Disconnected	EventLogWatch	Critical	RDP protocol detected an error in the
RDS Failure - Security Layer Error; Session Disconnected	EventLogWatch	Critical	Terminal Server security layer detecte
RDS Failure - TS Security & Disconnected Client	EventLogWatch	Critical	Terminal Server security layer detecte
Registry Failure - Cannot Load Classes Registry File	EventLogWatch	High	Cannot load classes registry file; profi
Registry Failure - Could Not Apply Registry-based Policy Settings	EventLogWatch	High	Could not apply the registry-based pol
Registry Failure - Incorrect Registry File Format	EventLogWatch	High	Insufficient security rights or memory;
Registry Failure - Registry Hive corrupted and recovered	EventLogWatch	Caution	Registry hive failure
Registry Failure - User Profile Unable to Load	EventLogWatch	Normal	Registry load failures, cannot load dia

# Logon Duration Report

**Citrix XenApp Session Logon Duration Report - Session Logon Duration (in Seconds) Report for Specified Period**

Reporting Period: Sun, June 28, 2015, 11:00 PM -- Sun, July 05, 2015, 11:00 PM    Report Run: Sun, July 05, 2015, 11:00 PM    Sort By: XA Server Name

XA Server Name	User Account Name	User Display Name	Connect D/T	Reconnect	Logon	Logon Duration Breakdown					Interactive	Group Name	App Name
						Client Valid	Auth	GPO	Scripts	Profile			
XenApp001	AHOIENDOFAMILY	ENDOFAMILY	2015-07-03 05:57:57	No	29.8	4.06	0.08	10.30	0.22	2.90	12.98	Tracker Desktop	
XenApp001	AHOIORCORE	ORCORE	2015-07-03 06:14:07	No	34.9	5.17	0.08	10.23	0.28	2.89	13.69	Tracker Desktop	
XenApp001	AHOIORFAMILY1	ORFAMILY1	2015-07-03 05:53:59	No	26.0	4.37	0.08	9.36	0.20	0.31	11.86	Tracker Desktop	
XenApp001	AHOIPACU BB	PACUBB	2015-07-05 16:20:27	No	30.6	5.24	0.09	10.64	0.25	0.36	12.64	Tracker Desktop	
XenApp001	AHOIPREOP2	PREOP2	2015-07-03 06:05:55	No	27.6	2.57	0.08	9.94	0.22	2.65	12.12	Tracker Desktop	

Additional Logon Duration Details			
Action	Time	Duration	Details
Brokering	06:05:55	0.06 secs	ZDC / DDC Broker: DDC02
Get Account Data	06:05:45.8952031	0.00 secs	Account details: Account Name : CN=PREOP2,OU=AMC Users,DC=augustamed,DC=com Account Domain Name : AUGUSTAMED.COM DC Name : \DC1.augustamed.com DC Domain Name : AUGUSTAMED.COM
Domain Controller Data	06:05:45.8952031	0.52 secs	Domain Controller details: Domain Controller Name : \DC1.augustamed.com Domain Controller IP Address : \10.25.33.2
LDAP Calls	06:05:46.4255963	0.00 secs	List of applicable Group Policy objects: Local Group Policy

**All Users** (points to User Account Name column)

**Root cause analysis of policy, script and profile delay** (points to Domain Controller Data details)

795  
Making system calls to access specified file  
\\augustamed.com\SysVol\augustamed.com\Policies\{CED2D608-2760-468F-94F9-A121EF360A5E}\gpt.ini  
Making system calls to access specified file  
\\augustamed.com\SysVol\augustamed.com\Policies\{31B2F340-016D-11D2-945F-00C04F8904F9}\gpt.ini  
Making system calls to access specified file  
\\augustamed.com\SysVol\augustamed.com\Policies\{045706DB-4FBE-49DC-BE80-FF1E3B6AF5C1}\gpt.ini  
Making system calls to access specified file  
\\augustamed.com\SysVol\augustamed.com\Policies\{BE0E399D-6BBE-4A0E-B158-8B66948B6A27}\gpt.ini

Schedule or run on demand reports for logon duration

# ICA Performance for All Users

**XenDesktop - ICA Latency Report**

XenDesktop - ICA Latency for Specified Report Period - Show Top 20 Average

Reporting Period: Wed, May 21, 2014    **Aggregate all users encountering performance problems**    Report Run: Thu, May 22, 2014, 09:26 AM    Sort By: ICA Latency

User Account	Client Name	Client Address	ICA Latency	Date/Time	Desktop Name
enorm	Elenas-Mac	10.0.0.8	1118.0	5/22/2014 08:58:24	Desktop006
trals	W7-YCSTPOOL14	192.168.3.40	972.4	5/21/2014 22:21:09	Desktop222
jchap		10.1.10.31	409.7	5/21/2014 11:40:52	Desktop219
pkram	Pilar-Kramans-iPad	10.174.110.91	281.8	5/21/2014 11:55:28	Desktop199
rbles		172.17.16.192	135.2	5/21/2014 13:08:41	Desktop158
bslv	BRUCE LAPTOP	192.168.1.71	128.7	5/21/2014 20:08:23	Desktop226
bfln	Macintosh-6	172.20.10.2	115.3	5/21/2014 09:37:29	Desktop113
wfulmer	WT0080644c085e	10.10.148.50	96.0	5/22/2014 07:38:07	Desktop098
tmerc	Wll's Air	10.15.2.213	87.4	5/21/2014 13:10:58	Desktop014
aflyn	TMERC_LAPTOP	192.168.1.111	69.7	5/22/2014 07:37:20	Desktop008
aflyn		192.168.1.34	67.1	5/21/2014 13:02:51	Desktop252
eburt	Macintosh	192.168.1.34	59.8	5/21/2014 4:46:20	Desktop218
rlevi	iPad	192.168.1.34	58.3	5/21/2014 8:13:38	Desktop079
aflyn		192.168.1.34	58.7	5/21/2014 09:26:26	Desktop149
bwill	Barrys-MacBook-Air	192.168.2.2	54.3	5/21/2014 20:08:17	Desktop240
mneib	Michaels-MacBook-Air	192.168.1.7	52.3	5/21/2014 09:27:14	Desktop177
bwill	Barrys-MacBook-Air	192.168.2.2	51.3	5/21/2014 17:45:57	Desktop073
dcole	LAPTOPDC	192.168.2.8	49.0	5/21/2014 09:38:52	Desktop027
rthom	OEM	127.0.0.1	46.8	5/21/2014 11:15:01	Desktop252
mneib	Michaels-MacBook-Air	192.168.1.7	46.6	5/21/2014 11:01:18	Desktop178

**Track iPad and mobile performance** (points to Macintosh/iPad rows)

# Session Properties

Configure Monitor **View** Report Log Management

Performance Graphs SNMP Traps Registry XenApp/XenDesktop Sessions

View > XenApp/XenDesktop Sessions Sign Out | Settings | Help

**Session Properties for User 'LITIGATIONCO\jaeckel' on Machine 'GRP1-10'**

AgentVersion: 7.1.0.4033  
AllocationType: Random  
ApplicationName: ()  
AssociatedUserFulNames: (Ljaeckel, Laurie) ←  
AssociatedUserNames: (LITIGATIONCO\jaeckel)  
AssociatedUserSIDs: (S-1-5-21-1757981266-1715567821-839522115-5368)  
AssociatedUserURLs: (Ljaeckel@plaw.com)  
Capabilities: (CBP1\_5)  
Catalog: GRP1 ←  
CatalogUID: 69c9ad5a-d4c5-4b01-ae11-df882d75995a  
CatalogId: 140  
ControllerDNSName: XD02.Internal.Igationcolorado.com ←  
DNSName: GRP1-10.Internal.Igationcolorado.com  
DeliveryType: DesktopsOnly  
DesktopConditions: ()  
DesktopGroupName: GRP1 ←  
DesktopGroupUID: 7aed214-5db6-46df-bb11-18578b01e0ed  
DesktopKind: Shared  
DesktopId: 971  
FaultState: None  
FunctionalLevel: L7  
HostedMachineId: 608964bc-5517-8a66-95da-71265277765  
HostedMachineName: GRP1-10  
HostingServerName: XDS01 ←  
HypervisorConnectionId: 06c8669a-67bd-43ef-89b2-7e64d0d3b65c  
HypervisorConnectionName: XDS01  
HypervisorConnectionId: 13

IPAddress: 10.0.10.103  
ImageOutOfDate: False  
IsAssigned: False  
IsPhysical: False  
LastConnectionFailure: None  
LastConnectionTime: 6/10/2014 9:39:31 AM  
LastConnectionUser: LITIGATIONCO\jaeckel  
LastDeregistrationReason: Agent Shutdown  
LastDeregistrationTime: 6/9/2014 10:57:08 PM  
LastHostingUpdateTime: 6/10/2014 6:02:39 AM  
MachineInfoState: Available  
MachineName: LITIGATIONCO\GRP1-10  
MetadataMap: ()  
OSVersion: Windows 7 Service Pack 1  
OSVersion: Microsoft Windows NT 6.1.7601 Service Pack 1  
PermitUserChanges: Disabled  
PowerActionPending: False  
PowerState: On  
ProvisioningType: MCS  
PublishedApplications: ()  
PvdStage: None  
RecordTime: 2014-06-10 19:46:01  
RegistrationState: Registered  
SID: S-1-5-21-1757981266-1715567821-839522115-18714  
ScheduleReboot: None  
SessionAutonomouslyBrokered: False  
SessionClientAddress: 10.0.60.29

SessionClientName: Ljaeckel-Pad-2  
SessionConnectedViaIP: 10.0.20.83  
SessionCount: 1  
SessionDeviceId: IOS\_44CF6E497AEC48DB  
SessionId: 0495ACC2  
SessionHidden: False  
SessionKey: 0f1bd34-1002-466c-8ca6-d422c36dfd  
SessionLaunchedViaIP: 10.0.20.83  
SessionProtocol: HDX  
SessionSecureActive: False  
SessionSmartAccessTags: (Ctrlr.SessionProductType:MSAM, Ctrlr.SessionProductVersion:1, Ctrlr.FarmName:ag\_vs, Ctrlr.FarmID:10.0.20.82...)  
SessionStartTime: 6/10/2014 8:53:31 AM  
SessionState: Active  
SessionStateChangeTime: 6/10/2014 9:39:34 AM  
SessionSupport: SingleSession  
SessionId: 45998  
SessionUserName: LITIGATIONCO\jaeckel  
SessionUserSID: S-1-5-21-1757981266-1715567821-839522115-5368  
SessionEstablished: 1  
SessionPending: 0  
SummaryState: Idle  
SupportedPowerActions: (Reset, Restart, Resume, Shutdown...)  
Tags: ()  
UID: e6717643-efb8-45e5-a14c-1aa7e0d34367  
UID: 988  
VMInfoState: Running  
WIShutdownAfterUse: True  
WindowsConnectionSetting: LogonEnabled

Single click to identify user and session properties

Close

# Identify Source of IOPs Spikes

Configure Monitor **View** Report Log Management

Performance Graphs SNMP Traps Registry XenApp/XenDesktop Sessions

View > XenApp/XenDesktop Sessions Sign Out | Settings | Help

**Windows Process Details on 'GRP3-06' at 2014-06-10 16:51:41**

Process	PID	User	CPU %	Memory KBs (Working)	Memory KBs (Commit)	I/O Ops/sec	I/O Bytes/sec	Threads	Handles	Command Line
Google Chrome	6516	LITIGATIONCO\jaeckel	4.89	47,900	43,504	138	13,922	29	195	"C:\Program Files\Google\Chrome\Application\chrome.exe" --type=ppapi --channel="5632.9.3
Google Chrome	786	LITIGATIONCO\jaeckel	0.70	97,108	83,908	72	3,579	10	159	"C:\Program Files\Google\Chrome\Application\chrome.exe" --type=renderer --lang=en-US --lc
Google Chrome	7132	LITIGATIONCO\jaeckel	1.25	52,364	43,364	64	4,208	10	149	"C:\Program Files\Google\Chrome\Application\chrome.exe" --type=renderer --lang=en-US --lc
Google Chrome	5832	LITIGATIONCO\jaeckel	1.47	135,740	100,316	64	30,025	41	999	"C:\Program Files\Google\Chrome\Application\chrome.exe"
Ctrlr Graphics	4020	NT AUTHORITY\SYSTEM	1.04	45,036	42,116	13	10,072	5	148	"C:\Program Files\Ctrlr\CAService\ctrlrgrfx.exe"
Windows Explorer	3508	LITIGATIONCO\jaeckel	0.08	36,160	20,468	10	742	22	708	C:\Windows\Explorer.EXE
ClientServerRuntimeProcess	1005	NT AUTHORITY\SYSTEM	0.10	29,952	29,952	4	77	14	878	%SystemRoot%\system32\csrss.exe ObjectDirectory=Windows SharedSection=1024,128
Microsoft Office Word	3664	LITIGATIONCO\jaeckel	0.60	19,936	87,400	1	1,726	19	1,301	"C:\Program Files\Microsoft Office\Office12\WINWORD.EXE"
Authentication Manager Server	4816	LITIGATIONCO\jaeckel	0.04	12,736	5,072	1	20	17	198	"C:\Program Files\Ctrlr\AuthManager\AuthMgrSvc.exe" -Embedding
Ctrlr Service Host Executable	2092	NT AUTHORITY\NETWORK SERVICE	0	6,528	2,152	1	20	8	135	"C:\Program Files\Ctrlr\CAService\CtrlrSvcHost.exe" -g SmartCardSvcs
NT Kernel & System	4	NT AUTHORITY\SYSTEM	0.49	236	44	0	1,447	165	864	
Google Chrome	6008	LITIGATIONCO\jaeckel	0.22	84,092	72,136	0	23	13	152	"C:\Program Files\Google\Chrome\Application\chrome.exe" --type=renderer --lang=en-US --lc
Host Process for Windows Services	1536	NT AUTHORITY\NETWORK SERVICE	0.01	18,224	12,380	0	12	18	812	C:\Windows\system32\svchost.exe -k NetworkService
VM Provider Host	3328	NT AUTHORITY\NETWORK SERVICE	0.12	15,640	8,808	0	7	9	358	C:\Windows\system32\vmacthlp\vmacthlp.exe
Host Process for Windows Services	1284	NT AUTHORITY\SYSTEM	0.84	28,940	18,244	0	6	34	1,328	C:\Windows\system32\svchost.exe -k netsvcs
Ctrlr shell support	2660	LITIGATIONCO\jaeckel	0	14,844	8,576	0	1	18	369	"C:\Program Files\Ctrlr\CAService\ctrlrshell.exe"
Microsoft Office Outlook	3964	LITIGATIONCO\jaeckel	0.05	298,412	217,784	0	8	53	4,162	"C:\Program Files\Microsoft Office\Office12\OUTLOOK.EXE"
Monitor Agent	2384	NT AUTHORITY\SYSTEM	0.28	57,192	68,372	0	6	76	1,182	"C:\Program Files\Monitor\TrpmAgent.exe"
Framework Service	2140	NT AUTHORITY\SYSTEM	0.01	2,128	6,928	0	76	35	426	"C:\Program Files\WGA\WGACommon\Framework\ServiceHost.exe" /ServiceStart
Local Security Authority Process	808	NT AUTHORITY\SYSTEM	0.04	11,008	4,244	0	3	8	846	C:\Windows\system32\lsass.exe
Host Process for Windows Services	1076	NT AUTHORITY\LOCAL SERVICE	0.06	17,540	16,956	0	158	16	480	C:\Windows\System32\svchost.exe -k LocalServiceNetworkRestricted
Ctrlr PortICA Controller	2988	NT AUTHORITY\LOCAL SERVICE	0.05	34,236	41,432	0	1	26	844	"C:\Program Files\Ctrlr\CAService\porticaSvc2.exe"
Common User Interface	3108	LITIGATIONCO\jaeckel	0	4,080	2,816	0	0	7	138	"C:\Program Files\WGA\WGACommon\Framework\Updater\UpdaterUI.exe" /Stateful/onlyRunKey
Host Process for Windows Services	996	NT AUTHORITY\NETWORK SERVICE	0	8,376	4,356	0	0	9	461	C:\Windows\system32\svchost.exe -k RPCSS
McTray Application	924	LITIGATIONCO\jaeckel	0	752	5,444	0	0	34	290	load
Host Process for Windows Services	916	NT AUTHORITY\SYSTEM	0.06	9,132	3,948	0	11	397	11	C:\Windows\system32\svchost.exe -k DcomLaunch
Local Session Manager Service	816	NT AUTHORITY\SYSTEM	0	3,320	1,476	0	0	9	187	C:\Windows\system32\lsm.exe

Identify source of IOPs spikes

Show All Processes Refresh Close

# Logon Duration Breakdown

**Logon Duration Breakdown**

Logon Duration Details for: 'GOLIATHFloyd Roberts' on 'VDI-DEVXQWN702'

Connect D/T	Client Address	Reconnect	Logon	Brokering	VM Start	Client Valid	Server Valid	HDX	Auth	GPO	Scripts	Profile	Interactive
2015-06-24 14:17:55	10.20.30.101	No	20:07 secs	0.05 secs	7.1 secs	6.49 secs	0.88 secs	0.47 secs	4.92 secs			1.25 secs	13.47 secs

**Client & Server Start-up Breakdown**

Process	Time
CASD	0.47 secs
CONSD	
COSD	
DMSD	0.05 secs
LES0	6.19 secs
PLSD	6.19 secs
PNCOSD	
SCSD	3.05 secs
SSSD	22.08 secs

**Client Start-up Breakdown**

Process	Time
AECD	0.27 secs
BUCD	
CFDCD	
COCD	
IFDCD	
LPWD	0.2 secs
NRCD	
NRWD	0.2 secs
RECD	
REWD	
SCCD	0.88 secs
SCD	
SLCD	0.001 secs
TRWD	0.001 secs

**Logon Duration Event Details for AUTH and GPO Actions**

Action	Time	Duration	Details
Brokering & Client Validation	2015-06-24 14:18:02	7.2 secs	ZDC / DDC Broker: SVR->DCC02
Get Account Data	14:18:08.8795445	0 secs	Account Name: CN=Floyd Roberts; OU=Goliath; DC=corp; DC=goliathtechnologies; DC=com
Domain Controller Data	14:18:08.5483439	0.98 secs	DC Name: \\SR-DC02.corp.goliathtechnologies.com
LDAP Calls	14:18:09.6559652	0.05 secs	Domain Controller Name: \\SR-DC02.corp.goliathtechnologies.com
File Accessed	14:18:09.7807676	0 secs	Domain Controller IP Address: 110.20.30.6
Citrix Group Policy Extensions	14:18:10.4515005	0.95 secs	List of applicable Group Policy objects:
Citrix Profile Management Extension	14:18:11.4031988	1.98 secs	Starting Citrix Profile Management Extension Processing.

## One Click Drilldown for Troubleshooting

### Product Screenshot: Real-Time XenApp & XenDesktop Session Display

Toggle between environments

XA Server Name	Session	State	UserAccount	Client Name	Client Address	Version	Logon	ICA Latency	Avg. ICA Latency	App Name	Farm Name	Connect D/T	Disconnect D/T	Misc
SR-VA6502	ICA-TCP#16	Active	GOLIATHLOSTEST03	SVR-MIT03	10.20.30.97	14.2.0.10	4.5 secs	0 ms	0.0 ms	Asana	DE/FARM01-VA65	2015-07-01 08:50:09		ClientCacheLow...
SR-VA6502	ICA-TCP#16	LoggedOff	GOLIATHLOSTEST01	SVR-GLOS01	10.20.60.203	14.1.0.0	10.4 secs	0 ms	2.6 ms	Asana	DE/FARM01-VA65	2015-07-01 08:47:35	2015-07-01 08:49:31	ClientCacheLow...
SR-VA7604	HDX - Application	Active	Floyd Roberts	SVR-MIT03	10.20.30.97	14.2.0.10	18.5 secs	0 ms	0.1 ms	Paint, Windows PowerShell	Published Apps	2015-07-01 08:45:51		AgentVersion: 7...
SR-VA6502	ICA-TCP#17	LoggedOff	GOLIATHLOSTEST03	SVR-MIT03	10.20.30.97	14.2.0.10	4.6 secs	0 ms	0.0 ms	Notepad++	DE/FARM01-VA65	2015-07-01 08:42:17	2015-07-01 08:47:16	ClientCacheLow...
SR-VA6502	ICA-TCP#17	LoggedOff	GOLIATHLOSTEST03	SVR-MIT03	10.20.30.97	14.2.0.10	4.6 secs	0 ms	0.0 ms	Chrome	DE/FARM01-VA65	2015-07-01 08:42:17	2015-07-01 08:47:16	ClientCacheLow...
SR-VA6502	ICA-TCP#16	LoggedOff	GOLIATHLOSTEST01	SVR-GLOS01	10.20.60.203	14.1.0.0	5.1 secs	5 ms	2.7 ms	Notepad++	DE/FARM01-VA65	2015-07-01 08:37:34	2015-07-01 08:45:56	ClientCacheLow...
SR-VA6502	ICA-TCP#16	LoggedOff	GOLIATHLOSTEST01	SVR-GLOS01	10.20.60.203	14.1.0.0	5.1 secs	5 ms	2.7 ms	Firefox	DE/FARM01-VA65	2015-07-01 08:37:34	2015-07-01 08:45:56	ClientCacheLow...
SR-VA6502	ICA-TCP#16	LoggedOff	GOLIATHLOSTEST01	SVR-GLOS01	10.20.60.203	14.1.0.0	5.1 secs	5 ms	2.7 ms	Chrome	DE/FARM01-VA65	2015-07-01 08:37:34	2015-07-01 08:45:56	ClientCacheLow...
SR-VA6502	ICA-TCP#17	LoggedOff	GOLIATHLOSTEST03	SVR-MIT03	10.20.30.97	14.2.0.10	16.7 secs	0 ms	0.0 ms	Firefox	DE/FARM01-VA65	2015-07-01 08:36:19	2015-07-01 08:41:10	ClientCacheLow...
SR-VA6502	ICA-TCP#17	LoggedOff	GOLIATHLOSTEST03	SVR-MIT03	10.20.30.97	14.2.0.10	16.7 secs	0 ms	0.0 ms	Asana	DE/FARM01-VA65	2015-07-01 08:36:19	2015-07-01 08:41:10	ClientCacheLow...
SR-VA6502	ICA-TCP#16	LoggedOff	GOLIATHLOSTEST01	SVR-GLOS01	10.20.60.203	14.1.0.0	5.9 secs	0 ms	2.6 ms	Asana	DE/FARM01-VA65	2015-07-01 08:34:14	2015-07-01 08:36:06	ClientCacheLow...
SR-VA7604	HDX - Application	LoggedOff	Floyd Roberts	SVR-MIT03	10.20.30.97	14.2.0.10	18.4 secs	0 ms	0.1 ms	Paint, Windows PowerShell	Published Apps	2015-07-01 08:33:05	2015-07-01 08:44:49	AgentVersion: 7...
SR-VA6501	ICA-TCP#1	LoggedOff	GOLIATHLOSTEST03	SVR-MIT03	10.20.30.97	14.2.0.10	5.7 secs	0 ms	0.0 ms	Notepad++	DE/FARM01-VA65	2015-07-01 08:30:12	2015-07-01 08:35:33	ClientCacheLow...
SR-VA6501	ICA-TCP#1	LoggedOff	GOLIATHLOSTEST03	SVR-MIT03	10.20.30.97	14.2.0.10	5.7 secs	0 ms	0.0 ms	Chrome	DE/FARM01-VA65	2015-07-01 08:30:12	2015-07-01 08:35:33	ClientCacheLow...
SR-VA6501	ICA-TCP#1	LoggedOff	GOLIATHLOSTEST03	SVR-MIT03	10.20.30.97	14.2.0.10	5.8 secs	0 ms	0.0 ms	Firefox	DE/FARM01-VA65	2015-07-01 08:24:33	2015-07-01 08:29:31	ClientCacheLow...
SR-VA6501	ICA-TCP#1	LoggedOff	GOLIATHLOSTEST03	SVR-MIT03	10.20.30.97	14.2.0.10	5.8 secs	0 ms	0.0 ms	Asana	DE/FARM01-VA65	2015-07-01 08:24:33	2015-07-01 08:29:31	ClientCacheLow...
SR-VA6502	ICA-TCP#16	LoggedOff	GOLIATHLOSTEST01	SVR-GLOS01	10.20.60.203	14.1.0.0	5 secs	1 ms	2.6 ms	Notepad++	DE/FARM01-VA65	2015-07-01 08:24:06	2015-07-01 08:32:36	ClientCacheLow...
SR-VA6502	ICA-TCP#16	LoggedOff	GOLIATHLOSTEST01	SVR-GLOS01	10.20.60.203	14.1.0.0	5 secs	1 ms	2.6 ms	Firefox	DE/FARM01-VA65	2015-07-01 08:24:06	2015-07-01 08:32:36	ClientCacheLow...
SR-VA6502	ICA-TCP#16	LoggedOff	GOLIATHLOSTEST01	SVR-GLOS01	10.20.60.203	14.1.0.0	5 secs	1 ms	2.6 ms	Chrome	DE/FARM01-VA65	2015-07-01 08:24:06	2015-07-01 08:32:36	ClientCacheLow...
SR-VA6501	ICA-TCP#4	Active	GOLIATHLOSTEST05	SVR-GLOS02	10.20.60.202	14.2.0.10	3.6 secs	0 ms	0.0 ms	Chrome - Video	DE/FARM01-VA65	2015-07-01 08:21:35		ClientCacheLow...
SR-VA6501	ICA-TCP#1	LoggedOff	GOLIATHLOSTEST01	SVR-GLOS01	10.20.60.203	14.1.0.0	6.2 secs	0 ms	5.7 ms	Asana	DE/FARM01-VA65	2015-07-01 08:20:53	2015-07-01 08:22:46	ClientCacheLow...
SR-VA7604	HDX - Application	LoggedOff	Floyd Roberts	SVR-MIT03	10.20.30.97	14.2.0.10	7.8 secs	0 ms	0.1 ms	Paint, Windows PowerShell	Published Apps	2015-07-01 08:20:22	2015-07-01 08:32:08	AgentVersion: 7...
SR-VA6502	ICA-TCP#16	LoggedOff	GOLIATHLOSTEST03	SVR-MIT03	10.20.30.97	14.2.0.10	4.5 secs	0 ms	0.0 ms	Notepad++	DE/FARM01-VA65	2015-07-01 08:18:17	2015-07-01 08:23:17	ClientCacheLow...
SR-VA6501	ICA-TCP#16	LoggedOff	GOLIATHLOSTEST03	SVR-MIT03	10.20.30.97	14.2.0.10	4.5 secs	0 ms	0.0 ms	Chrome	DE/FARM01-VA65	2015-07-01 08:18:17	2015-07-01 08:23:17	ClientCacheLow...

Drill down into real or simulated user's sessions

## **Goliath Performance Monitor provides a large list of out-of-the-box reports to proactively anticipate, troubleshoot, resolve, and prevent performance issues:**

- **Citrix XenApp End-User Experience Report**  
Provides XenApp End-User Experience information by displaying key metrics like application, logon duration, ICA latency, client speed and client address for users launching applications in a given time frame.
- **Citrix XenApp End-to-End Connection Report**  
Provides connection information for users launching Citrix XenApp. Metrics include: client name, address, speed, and type, as well as the broker and server used while launching the application.
- **Citrix XenApp Logon Duration Report**  
Breaks down a user's logon process into each of the stages to help understand what needs to be optimized to improve logon times. This report can also be used to identify and troubleshoot session load problems, by identifying what may be getting stuck or taking too long to process. Threshold based alerting on user logon time also possible.
- **Citrix XenDesktop End User Activity Report**  
Breaks down, for a period of time, a user's session counts, total session duration, average session duration, and last session time.
- **Citrix XenDesktop ICA Latency Report**  
Run on-demand or scheduled to show top 20 users with ICA Latency or all users with more than 'x' ms of latency.
- **Citrix XenDesktop Logon Duration Report**  
Breaks down a user's logon process into each of the stages to allow an administrator to understand what needs to be optimized to improve logon times. This report can also be used to identify and troubleshoot session load problems, by identifying what may be getting stuck or taking too long to process. Threshold based alerting on user logon time also possible.
- **Citrix Gold Image Health Report**  
Identifies errors that are taking place on all servers that have been provisioned with the same image to identify consistent errors attributed to a configuration or problem in the image itself that needs to be resolved.
- **Citrix Profile Errors**  
Shows Errors related to user profiles including profile load, folder redirection, group policy, registry, and security.
- **Citrix Printing Health**  
Identifies and iterates any errors that have taken place in the environment related to printer drivers, Citrix Universal Print Driver, printer auto-creation errors and failures, and print port mapping issues. If a customer is leveraging Citrix Universal Print Driver, conditions effecting UPD are also included in the report.

- **Citrix Profile Management Report**  
Identifies any errors or problems specific to CPM, and includes group policy and registry events that take place as well.
- **Citrix Group Policy & Registry Health Report**  
Identifies corruption, failures, security issues, and other events that have taken place stemming from Group Policy and the Registry.
- **Citrix XenApp End-User Activity Report**  
Breaks down a user's session counts, total session duration, average session duration, and last session time over a specified period of time.
- **Citrix XenApp Client Report**  
Breaks down Citrix Client versions accessing the environment, to be used to track upgrade progress, identify inconsistencies, troubleshoot session problems, and identify the different devices accessing environment. Metrics Include: Date, User, App/Desktop/VDI accessed, client IP address, Citrix Client Version, Device Type.
- **Citrix XenApp ICA Latency Report**  
Run on-demand or schedule to show top 20 users with ICA Latency or all users with more than 'x' ms of latency.
- **XenApp Server Session Activity Report**  
Lists all XenApp Sessions over a given period of time including: User, Application/Published Desktop, Server, Date, and Time.
- **Citrix XenApp Server Errors**  
Report includes Terminal Services, ICA failures, and events preventing session launch.
- **Citrix XenDesktop Client Report**  
Breaks down Citrix Client versions accessing the environment, to be used to track upgrade progress, identify inconsistencies, troubleshoot session problems, and identify the different devices accessing environment. Metrics Include: Date, User, App/Desktop/VDI accessed, client IP address, Citrix Client Version, Device Type.
- **Citrix XenApp Server Health Report**  
Provides basic performance metrics to ensure enough resources are available for operation, metrics include: Server Name, XenApp Server Load, Disk Space, CPU, RAM, Network Latency, Number of Users, and Last Reboot.
- **Citrix XenDesktop Health Report**  
Includes the basic performance metrics to ensure enough resources are available for operation, metrics include: VM Name, Registration State, Summary State, Broker Name, Connected User, and Login time.
- **Citrix Desktop Peak Usage Report**



Tracks utilization over a given period of time on a 24 hour scale to understand usage at different times of day. Allows administrators to determine usage patterns and peak usage times to ensure resource availability aligns with user behavior. Also important for understand licensing requirements from Citrix.

- **Citrix XenDesktop Session Activity Report**

Lists out all of the XenDesktop VDI Sessions over a given period of time including: User, VDI, Broker, Date, and Time.