

Splunk App for AppEnsure Website Documentation

July 2015

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Overview

AppEnsure measures the response time and throughput for every application in your environment across the entire topology of each application system and uses unique analytics to provide meaningful and actionable root cause diagnostics. AppEnsure automatically identifies each application by name, provides a topology map for that application, and then provides a root cause analysis when response time, throughput, or the error rate for the application deviates from the norm. The AppEnsure solution works for all applications, irrespective of its source (custom developed or purchased) and irrespective of where it is located (physical, virtual, private cloud, or public cloud). With AppEnsure you can:

- Understand the reason for poor application performance for any and every application
- Stop wasting IT resources while in war room meetings guessing at the root cause of an incident
- Protect revenue and business productivity by preventing long outages

AppEnsure automatically

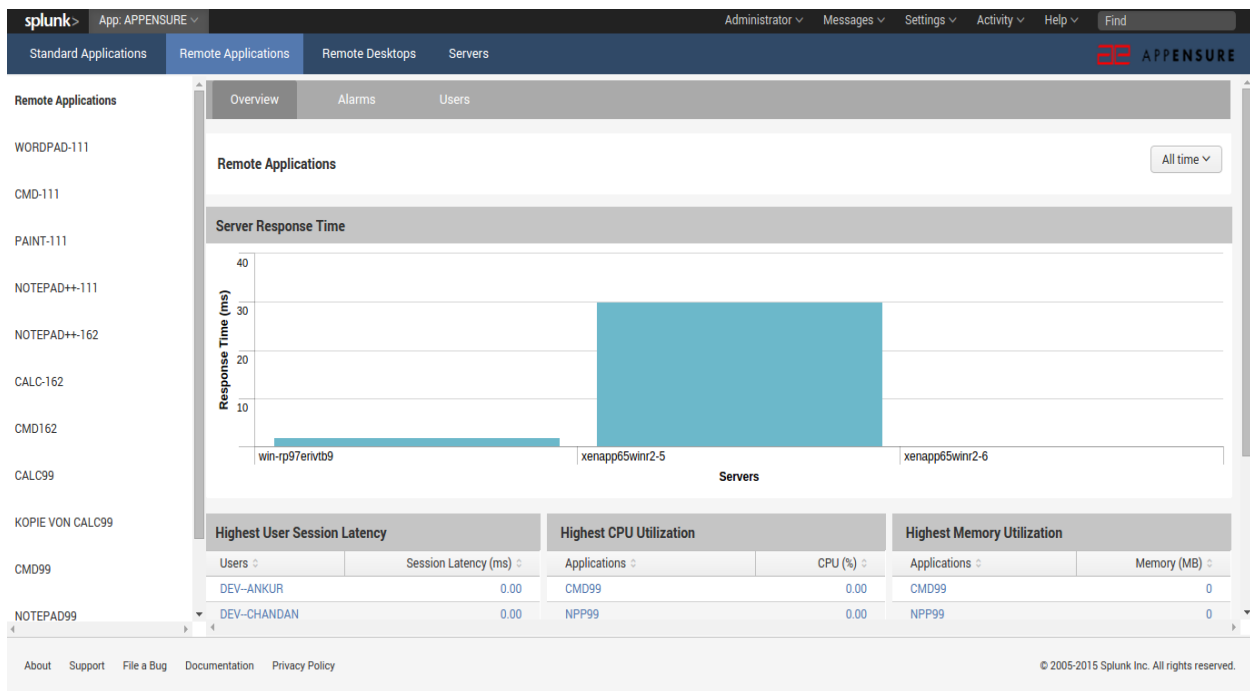
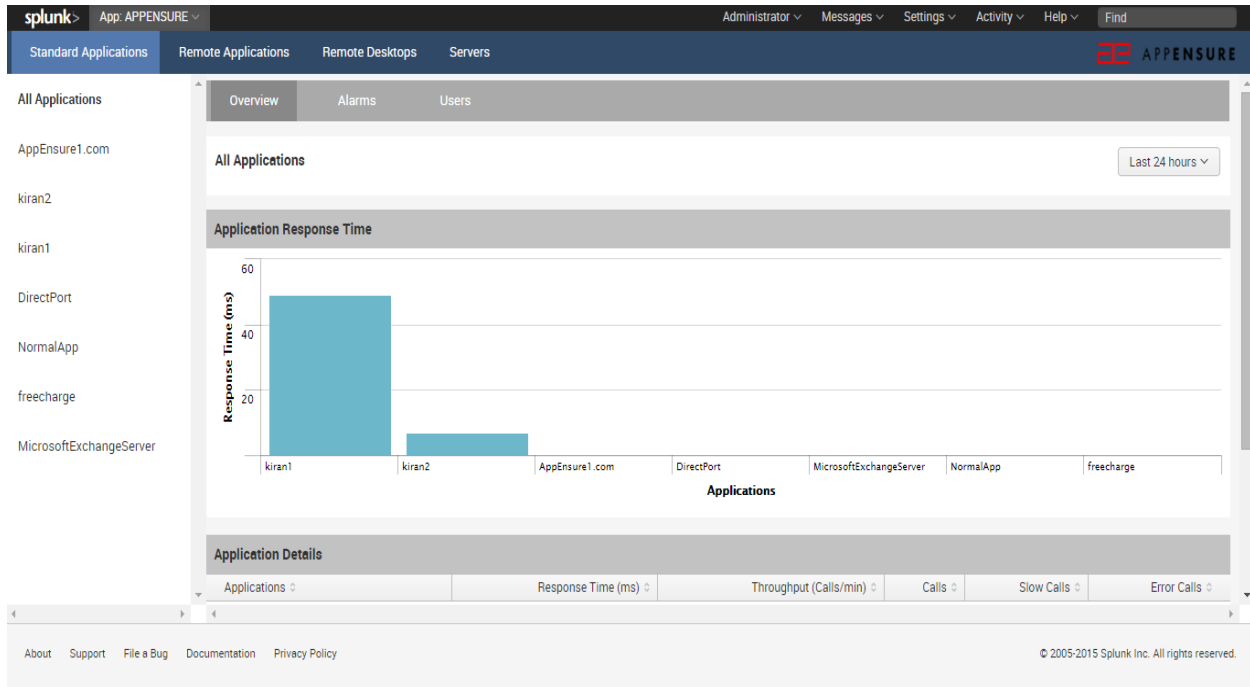
- Discovers all applications by name
- Maps the topology of every application
- Measures end-to-end response time and throughput for every application
- Presents diagnostics when response time and throughput degrade
- Puts all of this data automatically into Splunk for cross domain query and analysis.

Application Owners and Business Line Owners care about application performance - not resource utilization. The AppEnsure solution automatically tracks application performance for each and every application hop-by-hop, end-to-end and gives IT Operations the necessary data that measures what their constituents care about and eliminates or dramatically shortens “blame storming” meetings by quickly mapping to the real performance issue.



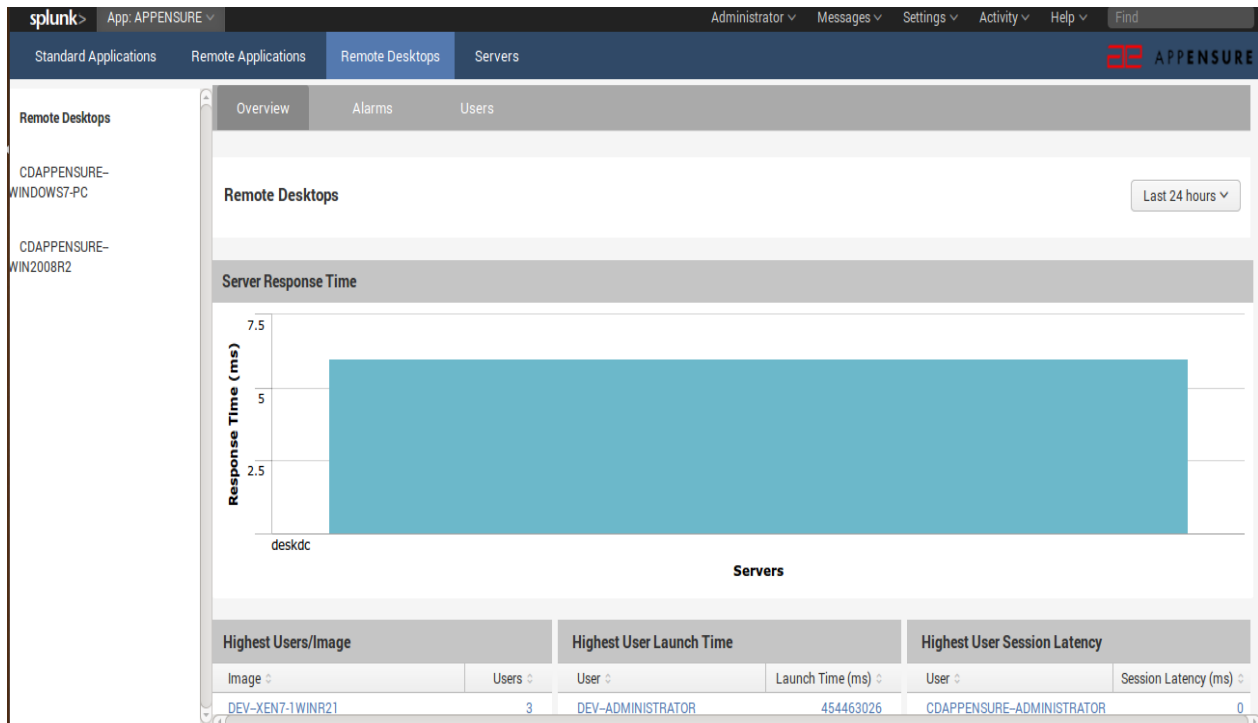
APPENSURE

(The following four screens will be horizontally scrolled on the page)





APPENSURE



splunk> App: APPENSURE Administrator Messages Settings Activity Help Find

Standard Applications Remote Applications Remote Desktops Servers

All Servers

XD75WIN2K12-64B

XD75WINR2-5

WIN-0735U4VD57P

CLIENT

WIN2008R2

XENAPPLICENSE

XD76WIN764

XENAPP65WINR2-5

windows7f7101

XD76WINR2

All Servers Last 24 hours

Server Details

Server	Operating System	CPU Usage (%)	Memory Usage (%)	Disk Usage (%)
CLIENT	Windows Server 2008 R2	0.00	84.00	54.00
WIN-0735U4VD57P	Windows Server 2008 R2	26.00	76.50	53.00
WIN-KI20KH91KGK	Windows Server 2008 R2	0.00	0.00	0.00
WIN-M0UOQ1T5HT8	Windows Server 2008 R2	0.00	75.50	65.00
WIN-QSQL97VHF7K	Windows Server 2008 R2	3.00	87.50	88.00
WIN-U2LLRP0IOKA	Windows Server 2008 R2	0.00	0.00	0.00
WIN2008R2	Windows Server 2008 R2	0.00	73.50	59.00
XD75WIN2K12-64B	Windows Server 2012 R2	0.00	0.00	0.00
XD75WINR2-5	Windows Server 2008 R2	0.00	0.00	0.00
XD76WIN764	Windows 7	0.00	0.00	0.00

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Highest CPU Utilization		Highest Memory Utilization		Highest Alarm Count	
Host Name	CPU (%)	Host Name	Memory (%)	Host Name	Alarms

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Documentation

How to Use the Splunk App for AppEnsure

What is AppEnsure?

AppEnsure is an Application Aware - Infrastructure Performance Management (AA-IPM) solution that allows you to automatically:

- Discover all applications by name
- Map the topology of every application
- Measure end-to-end response time and throughput for every application
- Present diagnostics when response time and throughput degrade
- Put all of this data automatically into Splunk for cross domain query and analysis.

What is the Splunk App for AppEnsure?

The Splunk App for AppEnsure is for existing Splunk customers to make application performance troubleshooting easier, by allowing them to correlate logs and AppEnsure unique metrics collected on all applications irrespective of custom developed applications, off the shelf applications or compound applications and irrespective of the location of the applications: public, private or hybrid clouds.

Installation

These instructions assume that you are familiar with using Splunk.

Prerequisites

- You have installed AppEnsure version 4.0 or newer. If you do not already have a license, you can sign up for a trial license.
- You have installed Splunk version 6.x or newer.

Installing AppEnsure App for Splunk Enterprise

Step 1: In Splunk menu bar click on apps and select “Manage Apps”.

Step 2: Now click on “Install app from file” button.

Step 3: Browse for the file AppEnsure.spl and click on upload. Restart the Splunk server after upload.

The AppEnsure App for Splunk already has all necessary configuration files like indexes.conf, props.conf, and transforms.conf. No further configuration is needed.



APPENSURE

Launching Splunk App for AppEnsure

On an event in the Splunk Search App, click the blue pull down and choose Launch in AppEnsure.

Dashboards

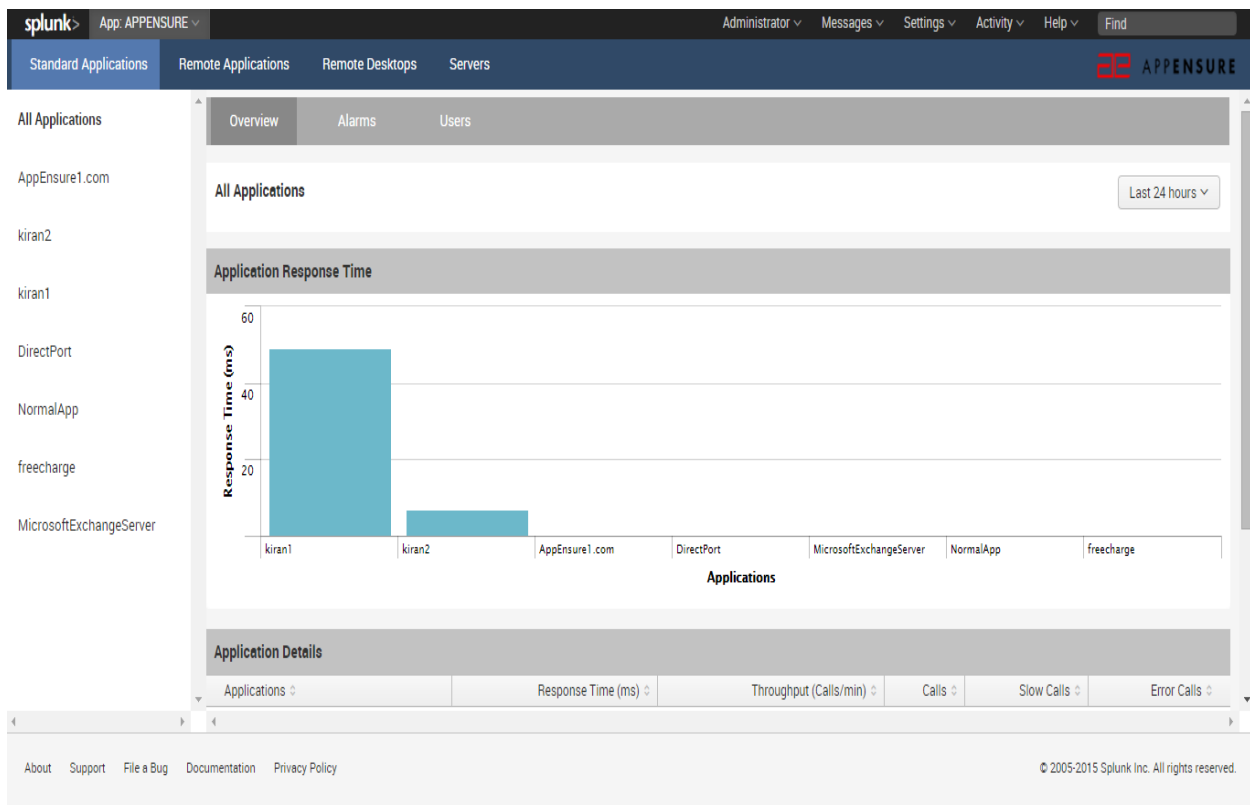
Standard Applications

The Standard applications page display details like application name, response time, throughput, all calls, slow calls and error calls for all application as well as for each application. The following figure shows the All Applications screen, showing all applications running with their response time in graphical view.

There are three tabs overview, alarms and users for all applications.

For particular application this page has four tabs. First tab is overview tab, is related to details about performance data (average response time, total calls, total users and total alerts) of a particular application. Second tab is alarms tab displays the alarms of selected application. Third tab is users tab shows the user details. And fourth tab is Topology tab, when users clicks on Topology button, it will redirect to topology page of AppEnsure GUI console. Topology display requires that the AppEnsure Master is running.

The following screens show the standard applications



splunk> App: APPENSURE Administrator Messages Settings Activity Help Find

Standard Applications Remote Applications Remote Desktops Servers

All Applications

SpringHttpInvokerWebClient

AppEnsure1.com

kiran2

kiran1

DirectPort

NormalApp

freecharge

MicrosoftExchangeServer

Overview Alarms Users Topology

SpringHttpInvokerWebClient Host: dev/192.168.131.14 Last 60 minutes

Response Time: 2 ms Total Calls: 568 Users: 1 Alarms: 0

Application Details

IP	Type	Servers	Response Time (ms)	Throughput (Calls/min)	Calls	Slow Calls	Error Calls
192.168.131.14	Server_WEB	Tomcat	2	13	568	0	0

Select Server Within Topology : (All)

Response Time : All

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SpringHttpInvokerWebClient

AppEnsure1.com

kiran2

kiran1

DirectPort

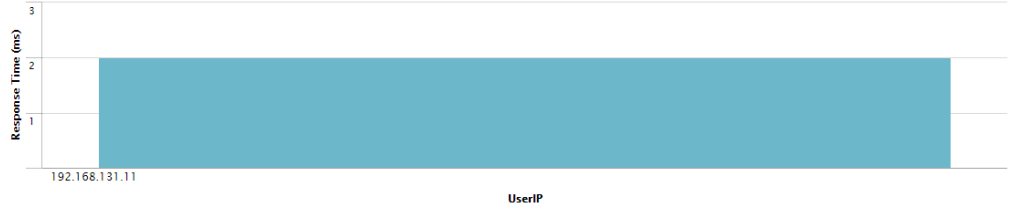
NormalApp

freecharge

MicrosoftExchangeServer

SpringHttpInvokerWebClient Host: dev/192.168.131.14 Last 60 minutes

User Response Time



UserIP

User Details

UserIP	Response Time (ms)	All Calls	Open Calls	Closed Calls
192.168.131.11	2	697	0	697

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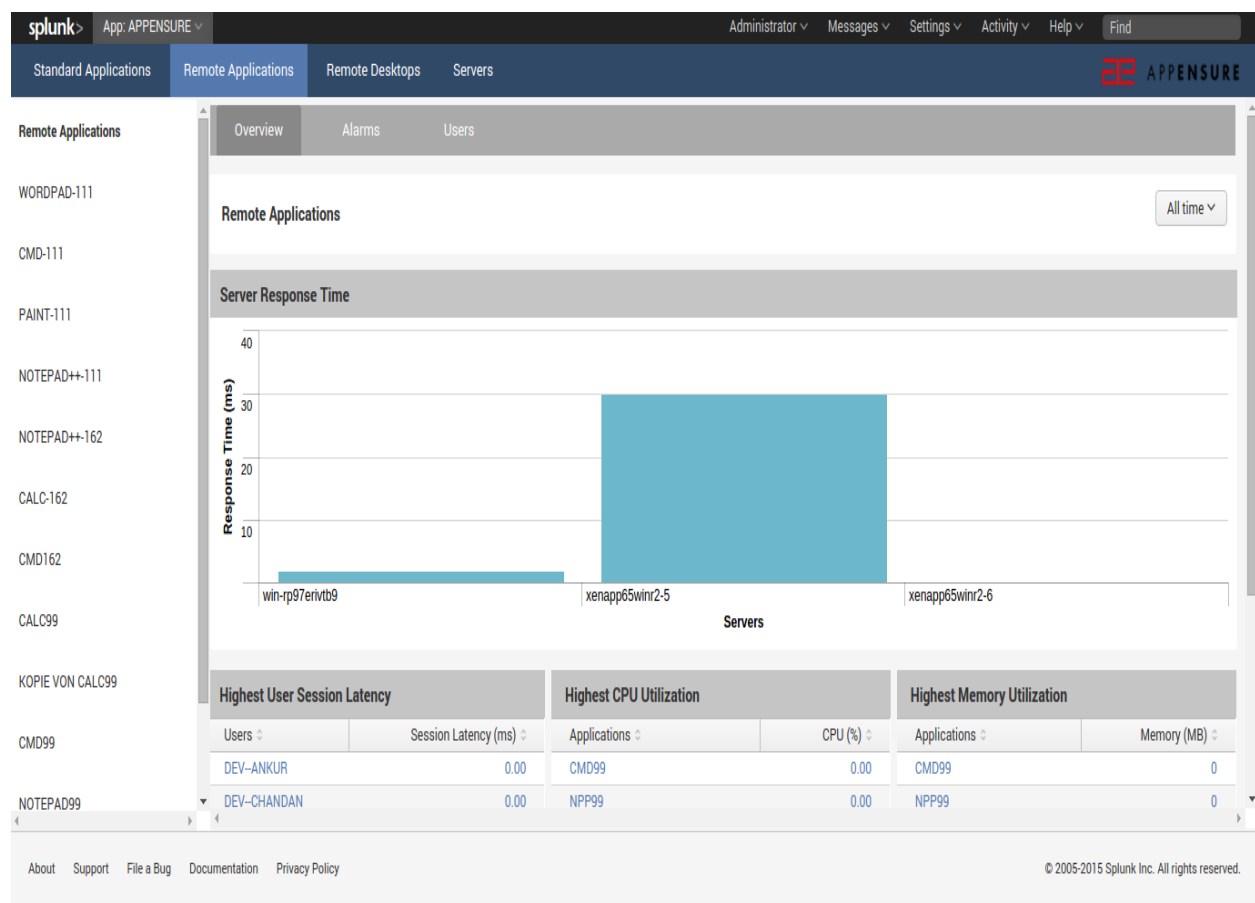
Remote Applications

Remote Applications screen will show the applications running under XenApp server.

By default Remote Applications overview is selected and top ten Highest User Session latency, highest CPU utilization and highest memory utilization. Alarms tab will display the alarm details. Users tab will display the users of the applications.

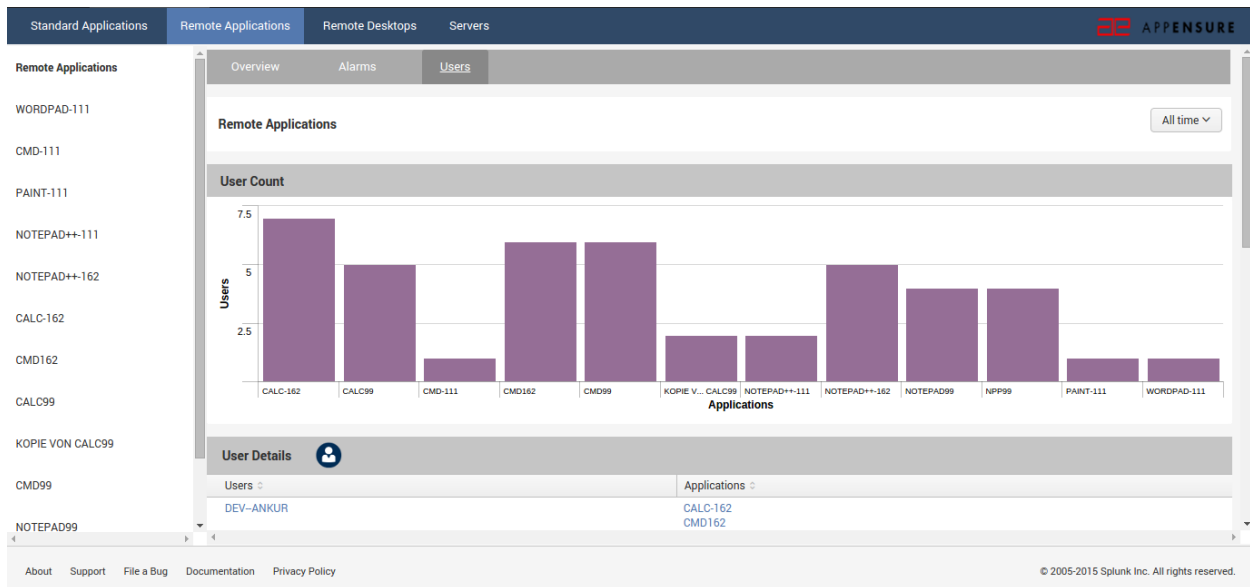
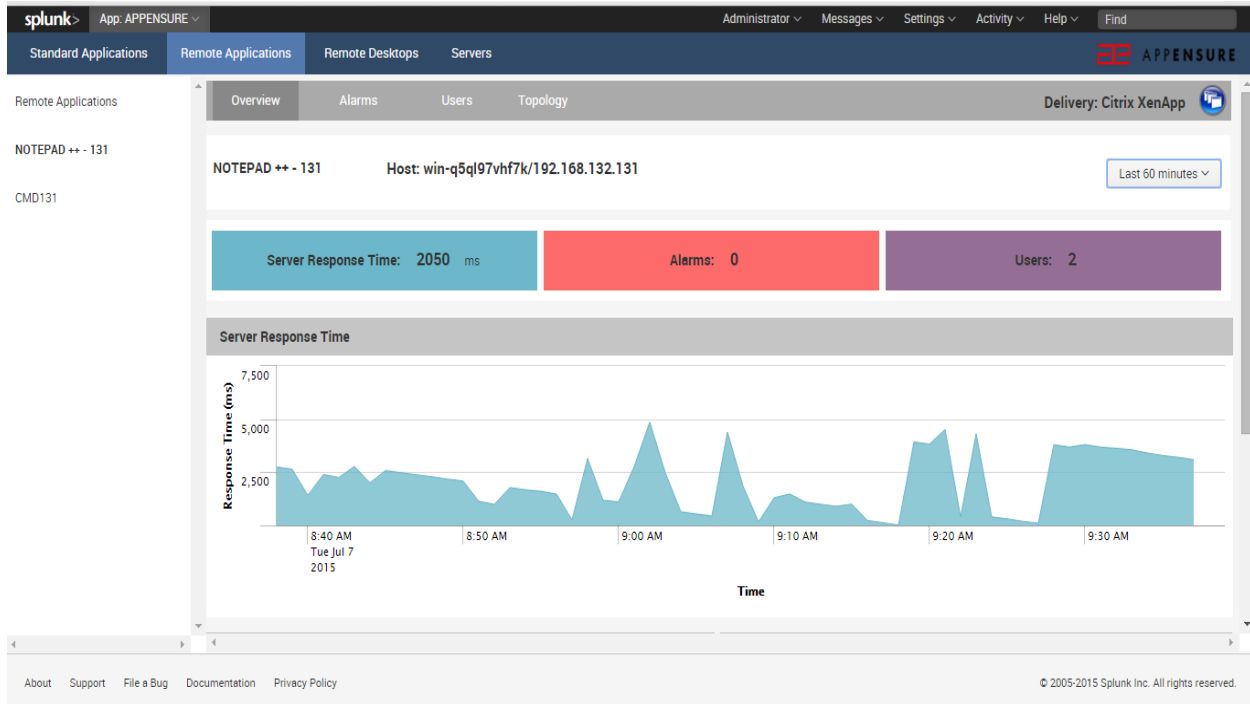
For particular application this page has four tabs. First tab is overview tab, is related to details about CPU and memory utilization of a particular application. Second tab is alarms tab displays the alarms of selected application. Third view is users tab shows the user details. And Fourth tab is Topology, when users clicks on Topology button, it will redirect to topology page of AppEnsure GUI console. Topology display requires that the AppEnsure Master is running.

The following screens show the remote applications





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APPENSURE

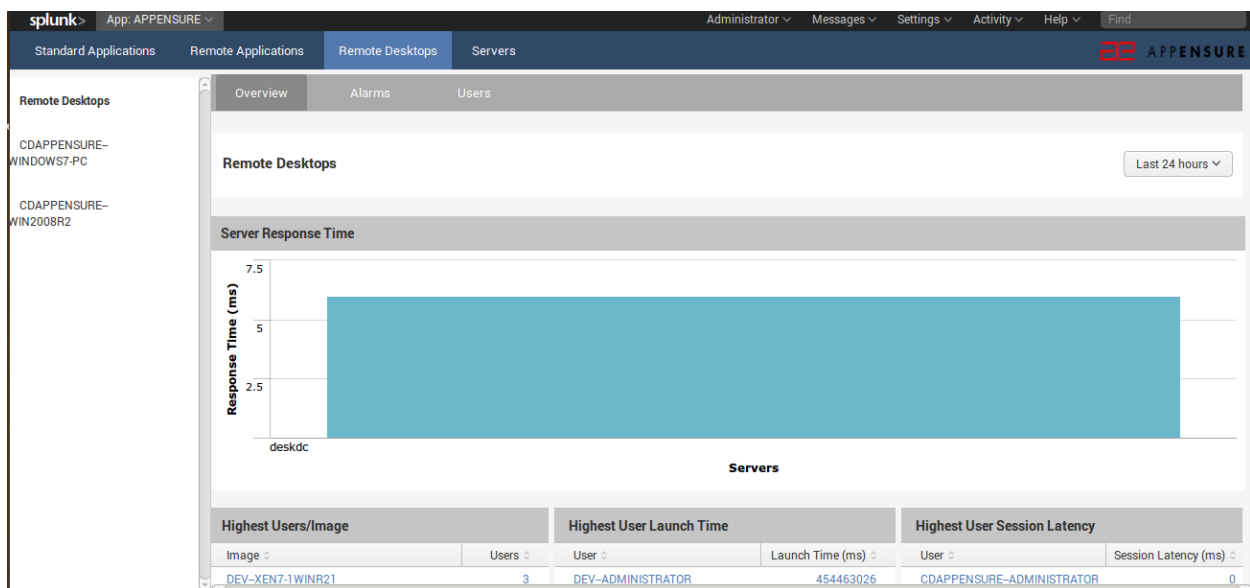
Remote Desktops

Remote Desktops screen will show the applications running under XenDesktop server.

By default Remote Desktops overview is selected and shows details of top ten Highest Users/Image, highest user launch time and highest user session latency. Alarms tab will display the alarm details. Users tab will display the users of the applications.

For particular application this page has four tabs. First tab is overview tab, is related to details about CPU and memory utilization of a particular application. Second tab is alarms tab displays the alarms of selected application. Third view is users tab shows the user details. And Fourth tab is Topology, when users clicks on Topology button, it will redirect to topology page of AppEnsure GUI console. Topology display requires that the AppEnsure Master is running.

The following screens show the remote desktops

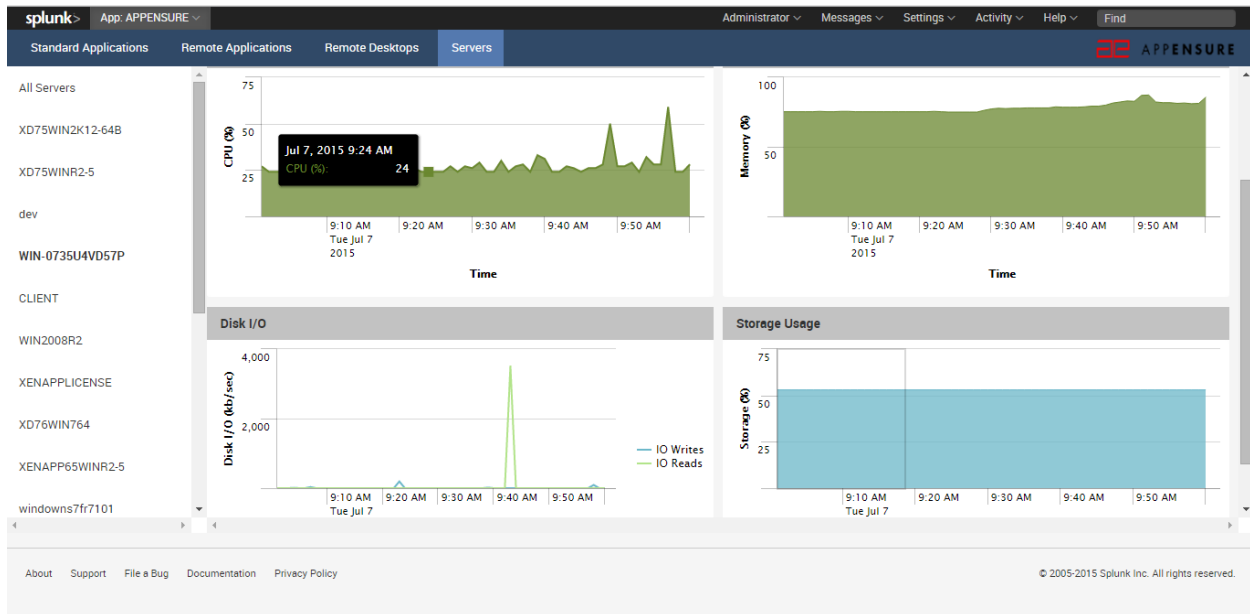
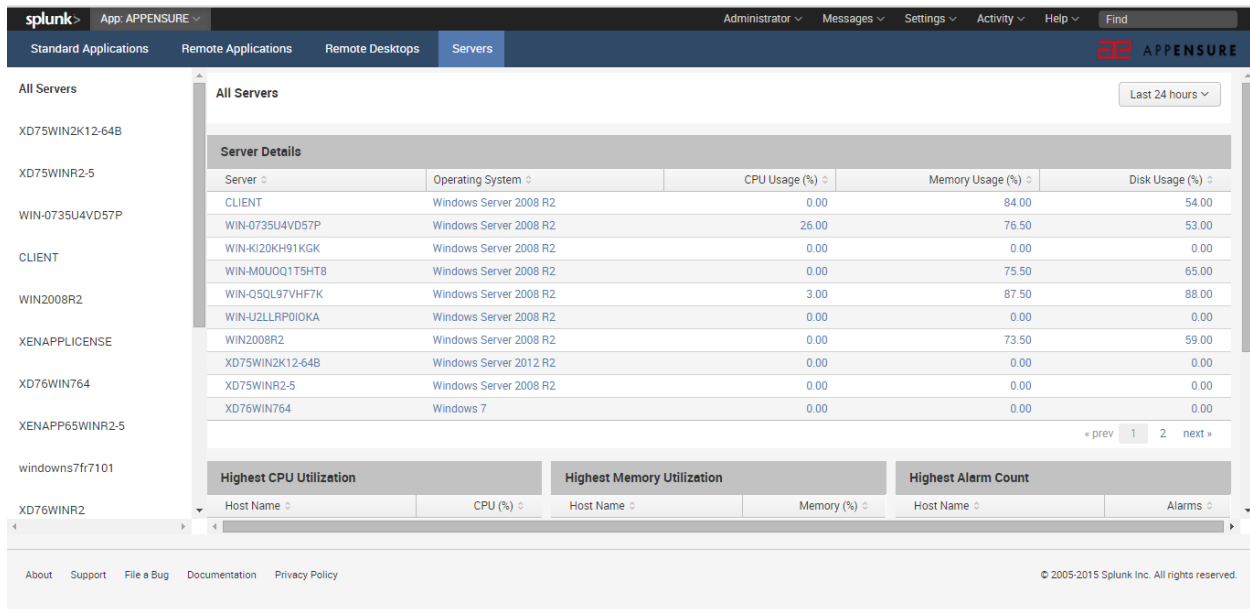


Servers

Servers screen will show the all servers details. By default highest cpu, memory utilization and highest alarm count is shown.

For particular server, this page has three tabs. First tab is overview tab, is related to details about CPU, memory utilization, disk I/O and storage usage details of a particular server. Second tab is alarms tab displays the alarms of selected server. Third view is Server Activity tab shows the servers process, server activity details.

The following screens show the servers.



Support

For understanding how AppEnsure solution works, please visit www.appensure.com. For any questions or feature request, please contact at support@appensure.com. You can also log your questions or issues at <http://support.appensure.com>.