# Real Sight APM

**RealSight APM Handbook** 

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# Login

Entering <u>http://IP:8080/apm</u> in your browser and waiting for redirecting to the login page.

# Dashboard

Dashboard is the portal page for monitering massive applications and it supports many convenient and concentrated management methods, inlcuding application healthy monitoring, appliation risk management, application performance alarm and so on.

You can find three main functions: <application>, <resurce>, <topology> on the left panel.

For detail introduction, we separate the page to four parts: navigation on the left, control area in the middle, display area on the right and expand are on the top right corner.

Real <mark>S</mark> ight APM	() Dashboard	Resource	<b>Nert</b>	Log	Setting					apm Q search 😨   O
Dashboard	ر Applica	ation List					Expand a	rea 🖸 (	🕽   🗮 November 25, 20	016 - November 25, 2016 •
PHP Application	Work Loa	ad	1	Work Load	Name	Alert	User	APDEX 0	REF Res	Forecast
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VMware	<ul> <li>Wan</li> <li>Norr</li> </ul>	n nal		•	CMS门户		0	0	0	0
				•	业务分析系统		0	0	6	0
	Order By	,		•	RealSightAPM		9	0.11	2	1.00
	Wor	k Load		•	tddtestapm		0	0	0	0
Navigation	Name	e		•	APM论坛		0	0	1	1.00
	<ul> <li>User</li> <li>APDEX</li> <li>REF Res</li> </ul>				Displa	area				
	<ul> <li>DES</li> <li>ASC</li> </ul>	iC :								
	Contr	ol area								

Figure: dashboard page

Navigation: in this area, user can click application, resource, topology to change the function in the display area, default is application.

Control area: in this area, user can select different load level and sort it with different metric, also including ascending and descening order;

Display area: in this area, user can find load metric, application name, alarm info, online user number, apdex, related resource and predictive index. All of



them are entries for detail information page, which we will give more explaination later.

Expand area: in this area, user can use 🕒 button to add new application, click 🖸 to flat layout and click 🗮 to select different time.

# **Add Application**

In dashboard-application page, after click  $\bullet$  buttornm user can find the modal page below:

Real <mark>S</mark> ight APM	() Dashboard	Resource	<b>Akert</b>	E og	<b>C</b> Setting					apm Q search 🕜 🕐
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VMware	© Warr	n nal		IP:		• Port:	•	0	0	0
				Application:				0	6	0
	Order By			• Extende	d Info			0.11	2	1.00
	<ul> <li>World</li> </ul>	k Load		Manager:		Phone:		0	0	0
	Nam User	e		Email:		Location:		0	1	1.00
	<ul><li>APD</li><li>REF</li></ul>	EX Res		Remarks:		Save Cancel				
	<ul> <li>DES</li> <li>ASC</li> </ul>	с								

Figure: add application

In this page, basic infomation muct be input, including name, protocol, ip, port and path. For example, if we want to manage our local application which url is <u>http://10.4.55.160:8080/apm/</u>, we need input ip as 10.4.55.160, port as 8080, path as apm. Before this, we have already added out probe under the application.

After complishing all the basic infomation, click <Save> button, after waiting minutes, it will refresh the <dashboard-application> page, the new application info will be shown in the display area.

# **Application Monitor**

This part is the main display area.



Click the load button 🦰

below, the page will direct to load page, like the

### figure below:

Real <mark>S</mark> ight APM	() Dashboard	Resource	لي) Alert	Log	<b>\$</b> Setting	apm Q search 💽 🚺							
Dashboard													
Dashboard Navigator	ر Applica	ation List > 日排	<b>反系统</b>			💿 🥃 🖬 November 25, 2016 - November 25, 2016 -							
PHP Application Dotnet Application	Metric Ch	art	Work Loa	d									
Resource Topology VMware	Application User Expe User Onlin	on Health rience ne	0. 0. 0.		nnn	manipulan and a second a second a							
	Work Loa	d		00:00 00:28 0	0.56 01.24 01.5	0220 0248 03:16 03:44 04:12 04:40 05:08 05:36 06:04 06:32 07:00 07:28 07:56 06:24 08:52 09:20 08:48 10:16 10:44							
	CPU			-									
	🗷 Heap M	emory	Request	Request Throughput Resource Utilization Ratio									
	<ul> <li>Physica</li> <li>Swap S</li> </ul>	I Memory pace	650			100 % CPU 50 %							
			520			0%							
						100 %							
			390			Heap Memory 50 %							
			260			100 % Physical Memory 50 %							
			130 0 00	00 01:02 02:	04 03:06 04:08	100 % Swap Memory 50 % 0510 0e12 0714 0e16 0e16 1020 0520 0640 0800 0820 1040							

Figure: system load page

In the load page, we can look through metric which influence the system load. The infomation of these metrics (CPU, Heap Memory, Physical Memory and Swap ) are displayed in last hour.

When we click the num under "online user", it will be directed to online user page. In this page, we can find some detail infomation of the user, including IP, user name, location and duration.

Real <mark>S</mark> ight APM	) Dashboard	Resource	K) Alert	Log	<b>¢</b> Setting						Q	search	apm 👽   🔿		
Dashboard															
Dashboard Navigator	ر Applica	○ Application List > 日报系统													
PHP Application Dotnet Application	Metric Cha	irt	User Online												
Resource Topology VMware	Applicatio User Expe <b>User Onli</b>	Application Health User Experience User Online			2 01:48 02:2	4 03:00 03:36 04:12	04:48 05:24 06:00	0 08:36 07:12 07:4	8 08:24 09:	00 09:36 10:12 1	10.48 11.24 12.00	12:36 13:12			
			Connected U	ser IP List By	Duration			Sessions							
			IP Address	User	Source	Duration Times		IP Address	Source	Sessions					
			10.4.45.56	yyu.neu	China		03:27:39	10.4.44.85	China			6			
			10.4.45.55	lijx	China		02:04:06	10.4.45.171	China		l	3			
			10.4.45.165	muxg	China		02:03:53	10.4.45.145	China		l i	3			
			10.4.45.145	xiang.gao	China		02:03:38	10.4.45.92	en			3			
			10.4.45.94	tenghy	China		02:03:33	10.4.45.56	China			2			
			10.4.45.144	zhang.wq	China	_	02:03:27	10.4.45.15	China	_		2			

Figure: online user page

Click the number under the user experienc, we will enter user experience



page. We will look thourgh every metrics which influence the user experience metric, including response time, 5xx, 4xx, 3xx, 2xx, CPU execution time and SQL execution time.



Figure: user experience page

Click the number under the predictive index, we will enter the predictive page below:

Real <mark>S</mark> ight APM	() Dashboard	Resource	Nert	Log	<b>Ç</b> Setting							Q search	apm 👽   🔿							
Dashboard																				
Dashboard Navigator	O Applica	ation List > 日报	系统							0 0	November 25	, 2016 - Novemb	er 25, 2016 👻							
JAVA Application PHP Application PHP Application Dotnet Application Resource Topology VMware	Metrics ThroughP 2.00-7( OnlinuUse 132.00-	ut 0.60 • r ~137.00 •	For	500 400 200 100	-e- OnlineUser P	olynomialregression	OnlineUser Li	nearregression -	- ThroughPut Polynomia	Iregression Th	roughPut Linearregre	ession	E							
	Submit	Reset		0	58 19:05 20:12	21:19 22:26 23:3	3 00:40 01:47	02:54 04:01 05:0	8 06:15 07:22 08:2	9 09:36 10:43 1	1:50 12:57 14:04	15:11 16:18								
										Me	trics Range	Metrics Influence	e Metrics Lim	t						
				Apdex 10.00%	10.00%	10.00%	10.00%	10.00% <b>10.</b> 0	10.00%	10.00%	10.00%	0.00%								
				0%		20%	40%	5	60%	8	0%	100%								
				0%		20%	40%		60%	8	0%	100%								

Figure: prediction page

Load prediction will give the throughput and online user number trend for next 24 hours.

Under the metrics prediction line is the metric distribution.



Real <mark>S</mark> ight APM	() Dashboard	Resource	الله Akert	Log	<b>Ç</b> Setting							Q search	apm 🔽   🔿
Dashboard													
Dashboard Navigator JAVA Application	Application	ntion List > 日报	原統	10.01 17.0	18 19.05 20.12	21.18 22.20 23.33 0	10.40 01.47 02.54 04.0	JI UD.UK UD.ID	07.22 08.23	0 ( 1 UB.30 10.43	Novemt	per 25, 2016 - Novembe	er 25, 2016 👻
PHP Application Dotnet Application				=				50 50				-	Î
Resource Topology VMware				Metrics Range	Metrics Influent	ce Metrics Limit							
				Apdex 10.00%	10.00%	10.00% 10	10.00%	10.00%	10.00%	10.00%	10.00%	10.00%	8
				0%		20%	40%		60%		80%	100%	
				Availa bility 100.00%	5								
				0%		20%	40%	1	60%		80%	100%	
				Used( MB)	10.00%	10.00% 10	10.00%	10.00%	10.00%	10.00%	10.00%	10.00%	
				0%		20%	40%		60%		80%	100%	
				HTTP G lobal	10.00%	10.00% 10	10.00%	10.00%	10.00%	10.00%	10.00%	10.00%	
				0%		20%	40%		80%		80.%	100%	

Figure: metric distribution page

Click the metric, detail distribute probility will be shown.

Click the influence analysis:

Real <mark>S</mark> ight APM	Dashboard	Resource	K) Alert	Log	Ç Setting	apm Q. tearch 🕜   🕐
Dashboard						
Dashboard Navigator JAVA Application PHP Application Dotriet Application Resource Topplogy VMware	C Applica	137.00 Constant	1	100 10.51 17 Metrics Range	Se 19:05 2012 2	C I I November 25, 2016 - November 25, 20

Figure: metric realtionship

Move the cursor to the metric, we can see more information about it.

From this figure, we will find system load has relation with java memory, and threads number influence java memory. Double click the java memory, we will get the related metrics' distribution information.

Click the resource prediction:



Real <mark>S</mark> ight APM	Dashboard	Resource	<b>Nert</b>	Log	Ç Setting	apm ⊡Q search
Dashboard						
Dashboard Navigator JAVA Application PFIP Application Dotriet Application Resource Topology VMware	C Applica 132 00- Submt	137 00 Reset	UKAK M	100 0.2034 214 etrics Range	1 22.49 22.55 0 Metrics influence	CPU Usad(%) CPU Usag(%) CPU Usag(%) Usage(%) CPU Usag(%) CPU

Figure: resource prediction

# **Resource Lib**

Resource lib is a powerful portal page for user. In this page, we can monitor JavaEE application, General Service, Web Container, Database, Instance and so on.

Real Sight APM (C) K II CC Dashboard Resource Alert Log Setting	apm Q search 🕥 🛛 🔿
<ul> <li>         Application &gt; Java EE      </li> </ul>	
V mApplication Resource Status 0 0 1 0 0 5	
> 💼 Java EE 🔲 🗇 송称 🛛 🔋 第日号	资源状态
≥ ■ PHP 10.4.55.173 18080	•
→ BODINET ● 业务分析系统 10.4.55.163 8080	•
CMSC/ 2005 Server 0 CMSC/ 2005 Server 10.4.55.163 8080	•
Database         APMi2ta         10.4.55.163         8080	•
Sinstance         RealSightAPM         10.4.55.160         8080	•
Virtualization 目根系統 10.4.44.97 9999	•
	Bassine 6 Telal A
H < ► H Page 1 /1 © 營 音 由   🕫	Pagesize:6,Total:6

Figure: resource lib page

- □ Application supports Java EE;
- □ General service supports HTTP、FTP and Telnet;
- □ Web container supports Tomcat、Websphere、Weblogic and JBoss;
- Database supports DB2、Oracle、Sqlserver、Mongodb and Mysql;



Instance supports Windows and Linux;

# **Application Monitor**

## JavaEE

Please read «RealSight APM Deploy Handbook» to download probe and deploy in under the application, or your can just contace us with the website:

http://www.realsight.cn/.

# **Basic Operation**

In the resource tree, expend <application> node, click <Java EE> node, right panel will display statistic infomation of resource status and table of instance, including name, IP, port and resource status. It supports add, edit and remove Java EE instance.

Real <mark>S</mark> ight APM	() Dashboa	rd Resource	لي) Alert	Log	<b>C</b> Setting				Q search	apm 🕜   🔿
4	Ū.	Application > Jav	ra EE							
Application     Applicati	0	Application > Jas Resource Statur 1 differences 1 differences 2 differen	na EE	3		12 10.4.55.173 10.4.55.163 10.4.55.163 10.4.55.163 10.4.55.160 10.4.54.97	1   1   8   8   8   8   9   9   9	NIL 0 8000 800 800 800 800 999 999		按源状态
		I4 4 ⊨ H Pa	ge 1 /1 O	ℓ t b   5					Pagesize	:6,Total:6

Figure: application list

# Monitor

Click one Java EE instance node, right panel will display abstract、HTTP、 threads、monitory、strategy、alarm、resource、topology and analysis。On the top right corner, it will show system load, online user number, user experience at present. Default is the abstract information.



### Abstract

Abstract is consit of three parts: server infomation, memory infomation and java environment.

A) Server

Server infomation is combined with name <code>Webapp's content</code> active threads number <code>c</code> active jdbc connection and metrics. Click the metric button <code>metrics</code> on the right, we can find bussiness thread <code>c</code> receive bytes <code>c</code> send bytes <code>content</code> total requests and error requests.

B) Memory

Display physical memory and java memory.

C) Java environment

Display JDK infomation and and JVM executiong information.

Real <mark>S</mark> ight APM	() Dashboard	Resource	Akert	Log	<b>Ç</b> Setting		Q search	apm 🔽   🔿
<ul> <li></li> <li></li> <li>→ Application</li> <li>&gt; → Max BE</li> <li>&gt; ● UASystmine</li> <li>&gt; ● CASYSTME</li> <li>&gt; ● CASYSTME</li> <li>&gt; ● CASSSTER</li> <li></li></ul>	Q APP	RealSigh Abstract H Abstract H App Ser Name: Web Root Active JDB Tomcat Me Toncat Me Total Used Java Used V Java Ru Java: Oper	EE > RealSightAP tAPM TTP Thread ver eads: IC Connections: trics: : :318//B/7668/M ntime ntime	M Monitor Apache Tomi /apm 0.0 0.0 Busy Thire Received Sent Byte Received Sent Byte Received Sent Byte Error Nun	Policy Aler cat/6 0 33 eads: 10 Bytes 626 KB s: 134 MB Nums 24070 is: 145 d 1.7.0_71-mockbu 65-b04)	Health         User.4           Inventory         Topology         Analysis         Predictive Analysis >           014_12_18_14_23-b00)         014_12_18_14_23-b00)         014_12_18_14_23-b00)	APDEX 0.98	

Figure: Abstract

### HTTP

Display Top10 http requests with the metrics: average response time,



al <mark>S</mark> ight APM	() Dashboard	I Resource	<b>Alert</b>	Log Setting			Q search
	0	Application > Java E	E > RealSightAP	м			
Application Java EE > Mattestapm > Mathestapm		RealSight	APM		Health 🥌	User:4	APDEX:0.98
APMi85		Abstract HT	TP Thread	Monitor Policy Alert	Inventory Topology Analysis Predictive	e Analysis 🔹	
日报系统 PHP		Metrics:	uration	k Count CPU Time System Er	rors Request Size		
DotNet ervice		Top10 Dura	ition				
ppServer Jatabase nstance			index.jsp		12		
/irtualization			DULCSS				
Irtualization Ither		in	wentory.jsp	-	9-		
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Irtualization ither		ii ach arthlett	wentory.jsp index.jsp index.jsp		9-		
irtualization ther		ir echartMetr	wentory.jsp index.jsp index.jsp icMonitor.js inventory.js		9- 6-		
irtualization ther		in echartNietr metricMonitoriVo	wentory.jsp index.jsp icMonitor.js inventory.js rkspace.jsp		9- 6- 3-		
Irtualization ther		i echartMetr metricMonitor/Vo metric	wentory.jsp index.jsp index.jsp icMonitor.js inventory.js rksp.ace.jsp Monitor.jsp		9-		

click、CPU execution time、system error and average size:



### Threads

Display Top10 thread with metrics: user execution time. CPU execution time.

### Monitor

Display every metirc'obvious value during the period selected. The number will be shown, if you put cursor on the bar.

Real <mark>S</mark> ight APM	() Dashboard	Resource	<b>N</b> ert	Log	<b>S</b> etting				Q.	apm search 😯 🛛 🕐
<ul> <li>▲ Application</li> <li>◆ ■ Java EE</li> <li>&gt; ■ tddtestapm</li> <li>&gt; ■ 业务分析系統</li> <li>&gt; ● CMST/ph</li> <li>&gt; ▲ ApMid年</li> </ul>	A G	RealSight	E > RealSightAPM	Monitor	Policy A	lert Inventory Topology	Health:	User:4	APDEX.0.9	6
<ul> <li>&gt; ConstraintAPM</li> <li>&gt; PHP</li> <li>&gt; DotNet</li> <li>&gt; Constraint</li> <li>&gt; Constraint</li> <li>&gt; Database</li> <li>&gt; Database</li> <li>&gt; Database</li> <li>&gt; Uritualization</li> <li>&gt; Other</li> </ul>		C The average resp 5 4 3 2 1 0 11-25 12	56 11-25 1	3:00 11-25	i 13:04 1	1-251200 11-251212	11-25 13:16 11-25 1	13:20 11-25 13:24	Netric Display Range: Last 8 🗸	Hours V O
		Average respons	e time SQL stat	ement executio	on i 13:04 1	<ul> <li>● 二次指数平衡</li> <li>■ 二次指数平衡</li> <li>■ 日本1251312</li> <li>● 同地対議 - 二次指数平衡</li> </ul>	<ul> <li>● 健性調白 -● 国次多期</li> <li>● 健大多期</li> <li>11-2513:16 11-251</li> <li>● 健性蛋白 -● 国次多期</li> </ul>	形式第日 1320 11-25 13:24 形式周日	11-251328 11-251332	
		Thread Activity								

Figure: monitor page



After change the selectd period and click  $< \odot >$  button, the line graph will refresh to the time series selectd.

Click the button <<sup>6</sup>> on the top left corner, a modal page will be shown. In this page we can select the metric to make it visable or not.

### Strategy

Display every strategy for this application, including global and local strategy. We can also switch it to ON or OFF. When the strategy is on and the condition is meet, an alert message will be added in the alarm list. We can also edit this page:

Real <mark>S</mark> ight APM	() Dashboar	d Resource	K) Akert	Log Sett	<b>\$</b> ting			Q sea	apm Irch 🔽 C
4	0	Application > Java B	E > RealSightAPM						
<ul> <li>Application</li> <li>Java EE</li> <li>計ddtestapm</li> <li>量业务分析系统</li> </ul>		RealSight	APM			Health:	User:4	APDEX:0.98	Î
> CMS门户 > APM论坛 > RealSightAPM		Abstract HT	TP Thread	Monitor Policy	Alert Inventory Topology	Analysis Predicti	ve Analysis 👻		
> 日报系统		III Name		Act	tive Expression		Description	Global Policy	Level
DotNet		HTTP请求CPU	J执行时间 ( 动态	OF	The average CPU time(ms) = auto			yes	MAJOR
Service		CPU使用率()	动态阈值 )	OFI	CPU Used(%) = auto(%)			yes	MAJOR
AppServer		回 Java内存使用	車(动态画値)	OFI	F Java Memory Usage(%) = auto(%)			yes	MAJOR
> Database		I Java內存使用	量(动态通道)	OF	F Memory Used(MB) = auto(%)			yes	MAJOR
> Instance		■ SQL平均执行	15间(动态调值)	OF	F Average response time SQL statem	ient execution = auto		yes	MAJOR
Virtualization		百 若吐量(动态)	6頃)	OF	F Through Put = auto			yes	MAJOR
- mother		百 在线用户数(3)	动态调值)	OF	F Total Users Online = auto			yes	MAJOR
		四 工作负荷(助)	が続値)	OF	F Health = auto			yes	MAJOR
		前 检理内存使用	彰(动态調査)	OFI	F Physical Usage(%) = auto(%)			yes	MAJOR
		四 活动线程数(i)	5本通信)	OF	Thread Activity = auto			yes	MAJOR
		回 用户体验(动)	が適面)	OF	F Apdex - auto			yes	MAJOR
		CPU使用率过	<b>H</b>	OF	F CPU Used(%) >= 90.0(%)			yes	CRITIC
		□ 系统多次发生;	专求错误	OF	HTTP System Error >= 10.0			yes	CRITIC.
		I Java内存使用	重过高	OF	Java Memory Usage(%) >= 90.0(%			yes	CRITIC
		回 应用资源存在(	9 <u>11</u>	OF	Health <= 0.4			yes	CRITIC
		回 空闲磁曲小于!	5G	OF	F Disk Free(GB) <= 5.0			yes	CRITIC
		□ 用户体验过低		OF	F Apdex <= 0.6			yes	CRITIC
		CPU使用素粒	过50%	OF	F CPU Used(%) >= 50.0(%)			yes	WARNI
		HTTP4XX错误		OF	F HTTP 4xx Error >= 1.0 And HTTP 4x	× Error <= 10.0		yes	WARNI
			CONTRACTOR OF THE OWNER AND		When an and a set to be a set				

Figure: strategy page

add strategy: click  $<^{\odot}$  > button, edit the basic infomation, make the defination of the stategy and response method when strategy condition is meet. The red star is must:



Real <mark>S</mark> ight APM	() Dashboard	Resource	<b>N</b> Akert	Log	<b>\$</b> Setting		Q search	apm 🔽   🔿
٩	رک A	pplication > Java E	E > RealSightAPM					
<ul> <li>Application</li> <li>Java EE</li> <li>対ddtestapm</li> <li>強力分析系统</li> </ul>		RealSight	APM			Heath User 4	APDEX:0.98	
> 🚰 CMS门户 > 🚰 APM论坛		Abstract HT1	TP Thread	Monitor	Policy Alert	Inventory Topology Analysis Predictive Analysis -		
<ul> <li>RealisipitAPM</li> <li>HRESS6</li> <li>PHP</li> <li>DotNet</li> <li>Service</li> <li>Database</li> <li>Distabase</li> <li>Sinstance</li> <li>Wittualization</li> </ul>		◆ General     Na     Descrip     ✓ If Conditio	ame:			Active:  ¥Yes  No		E
> 🚻 Other			Me	tric:		v* v*	0	
		Custom Cont	ent:					
		✓ Alert Confi	g Alert Level:		*			
			<ul> <li>Alert Freq</li> <li>Each</li> <li>Once</li> </ul>	uency ime conditions : every	are met times conditio	ons are met within a time period of		
		• Response	Туре					-

Figure: add strategy

### Alarm

Display all the alert infomation which have not been processed. User can click the process button to deal with this alert. Processed alert message will be add into the history backup:

Real <mark>S</mark> ight APM	() Dashboar	d Resource	<b>Nert</b>	Log	<b>C</b> Setting					Q search	apm 🔽   🔿
4	D.	Application > Java	EE > RealSightAP!	1							
<ul> <li>         Application         Java EE</li></ul>		RealSigh	tapm					Health.	User:4	APDEX:0.98	*
> CMS门户		Abstract H	TTP Thread	Monitor	Policy Alert	Inventory	Topology	Analysis Pred	lictive Analysis 👻		
> RealSightAPM											
> 🔛 日报系统		Alert Cont	ent				Alert Priority	Alert Counts	Alert Time	Latest Alert Time	
PHP > DotNet		HTTP平均响	应时间1(动态阀值告報	ē)				8	2016-10-25 16:04:20	2016-10-25 16:11:20	_
> Service		工作负荷0.5	(动态阈值告答)					583	2016-10-24 11:04:20	2016-10-25 16:11:20	
> AppServer		HTTP 4xx(E	景计量)6大于等于1;	HTTP 4xx(日累	计量)6小于等于10			715	2016-10-24 08:50:20	2016-10-25 16:11:20	
> 🗧 Database		SQL语句执行	,平均响应时间0(动态	國道告答)				8	2016-10-25 16:04:20	2016-10-25 16:11:20	
> SInstance		SystemErro	orLog9大于等于1					284	2016-09-18 08:38:12	2016-09-18 14:12:57	
Virtualization		HttpSystem	nError1大于等于1					284	2016-09-18 08:38:12	2016-09-18 14:12:57	
<ul> <li>Other</li> </ul>		1 物理内存使用	率94%大于等于90%	6				13	2016-09-18 14:00:57	2016-09-18 14:12:57	
		管 物理内存使用	座0.94(动态阈值告報	ē)				12	2016-09-18 14:01:57	2016-09-18 14:12:57	
		□ 活动的线程 5	5(动态阈值告替)					2	2016-09-18 14:11:57	2016-09-18 14:12:57	
		HTTP 4xx(E	3累计量)3大于等于1					285	2016-09-18 08:37:12	2016-09-18 14:12:57	
		III 工作负荷0.5	小于等于0.5					280	2016-09-18 08:42:12	2016-09-18 14:12:57	
		交換空间使用	率100%大于等于90	196				283	2016-09-18 08:39:12	2016-09-18 14:12:57	

Figure: alarm page

Select alert message, click "process" button, input process method and backup infomation into the frame and click the submit:

### Resource

Display the basic infomation of the application, including name, ip, port,



path, user can also find the application owner's contact infomation.

(9) Analysis

Display almost every infomation of Java EE application , it can be displayed by year, month, day or week. Metrics include: system http http error. Spring thread and so on:



Figure: analysis page

# Configuration

Click the configuration button on navigation page, it will switch to configuration page. Config page give operator different tools to manage the application.

# Lisence

User can add their lisence online and the software is unavilable before user add a lisence:



Real <mark>S</mark> ight <i>I</i>		o ard Reso	0 Dource	<b>لاً)</b> Akert	Log	<b>Ç</b> Setting		apm Q search 💽   C
Setting > License Ma	nagement							
Notice Your I	icense will evr	iro in 53	dave Ve	our can <mark>our</mark>	chace a li	cense now		
Notice. Four I	icense will exp	10 11 33	uuy5.10	our carr pur		cense now.		
License In	formation							
Product:	SaCa Adome for A	vs						
Company:	Neusoft							
Version:	4.0							
Type:	Commercial							
Status:	Unknown							
Issue Date:	2016-10-18							
Expire Date:	2017-01-18							
Update								
Select your li	cense by click	ng on Bro	owse,ar	nd click Upo	date to up	oload your li	cense.	
	Browse	ate						

Figure: lisence

Click <Browser> button, find the lisense on the local PC, click <update> to finish the lisence update.

# Contact

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