

YukMonitoring

Table of contents

System requirements	3
SetUp	3
Server	3
StateHandle	6
Collector	6
Agent	8
TransHandle	10
Aop Setting	11
UI	11
Log Setting	12
Getting Started	13
Login	13
MainView	14
Menu	14
DashBoard	15
Statistcal	19
Agent	20
Coll	21
Event	22
Collector	23
Network	26
Disk	27
Agent	30
Log	34
Thread	35
Method Spot	37
Database Spot	39
Exception	39
Memory Pool	42
Other	44
Setting	44
Help	45
SignOut	46

System requirements

YukMon is APM(Application Performance Monitoring) Tools.

It work for Java App now. but we will adjust for .Net , etc ..;

1. Hardware Requirements

we support any of Server n Pc.
and we Use TCP/IP network for all of communication.
(Please Down your fireWall....)

2. Software Requirements

- 1) Java Version : JDK 1.6 or Higher
- 2) WAS : Web Module 2.5 or Higher and Java EE6 or Higher Support.
- 3) Browser : IE 9 Higer / Crome / Opera .. and any Browser that Html5 Supported.

3. You will Consider for Use Before (We Use It)

- 1) Embeded DB
- 2) AspectJ
- 3) JAVA EE6

4. This Program Consist of below.

- 1) Agent : Set up Each Application. For Collector App Metric and Resource, Log,etc..
- 2) Collector : Set Up Each Server. For Collect ALL of connected Agent and Server Resource
- 3) Server : get Data from collector. and save Embeded Db. send data to UI
- 4) UI : Web Application. so we need WAS. Connection needed to Server.

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SetUp

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Server

how to run Yuk Mon Server run. step by step

Step 1. check your composition

 db	2017-03-30 오전...	파일 폴더
 lib	2017-03-31 오후...	파일 폴더
 logback.xml	2017-02-03 오전...	XML 문서
 run.bat	2017-03-31 오후...	Windows 배치 파일
 Server.xml	2017-01-27 오전...	XML 문서

1 - 1 .db

non volatile data is save in. database contain data that type separated.

1-2 . lib

server needed jar file inside it.

1-3 . logback.xml

logging setting file. see the Log Setting Category.

1-4 . run.bat

excutable file. further infomation below.

1-5. server.xml

server setting file. further infomation below.

Step 2. Server Setting.

see the example.

```
<?xml version="1.0" encoding="euc-kr"?>
<XmAmServer>
<AmassServer Name="SERVER" -server name.
    type="SERVER" - do not modify .
    ip="127.0.0.1" - server bing tcp ip.
    port="2109" - server bing tcp port.
    ExpireSch="True" - old data expired.
    AggreRes="True" - resource data insert database.
    trace="false" - console print system trace data.
    saveLogPath="C:/test/" - server collected agent log data saving path.
    remainLogDay="3" - save log Day.
    slf4j="true" - slf4j use. if false setted logback implementaion used.
    onRefresh="true" - if server on run state. database will be clear. you not
    use at restart time.>
</AmassServer>
<!-- do not modify pool name -->
<DBsetting> -> typical jdbc setting
    <pool name="Action" driver="org.h2.Driver" connect="jdbc:h2:file:./db/trans/trans"
user="SA" pswd="">
        <pool name="Resource" driver="org.h2.Driver"
connect="jdbc:h2:file:./db/resource/resource" user="SA" pswd="">
            <pool name="Event" driver="org.h2.Driver" connect="jdbc:h2:file:./db/event/event"
user="SA" pswd="">
                <pool name="Stack" driver="org.h2.Driver" connect="jdbc:h2:file:./db/stack/stack"
user="SA" pswd="">
                    <pool name="Info" driver="org.h2.Driver" connect="jdbc:h2:file:./db/info/info"
user="SA" pswd="">
    </DBsetting>
    <workInterval -sending interval sever to UI. period is second
        Trans = "10"
        Resource = "10"
        LOG = "10"
        EVENT = "10"
        INFO = "10"
        HEALTH = "30"
        STACK = "30"
        DBHOT = "30"
        HOT = "30"
        EXCPTION = "30"
        DIS="10">
    </workInterval>
    <StateHandle -- state handle. if error occer run external post Worker
        postWorker="com.ex.sendMsg" -- state class name. see ServerHandle Category
        health="true" -- state handler on/ off
        trans="true"
        cpu="true"
```

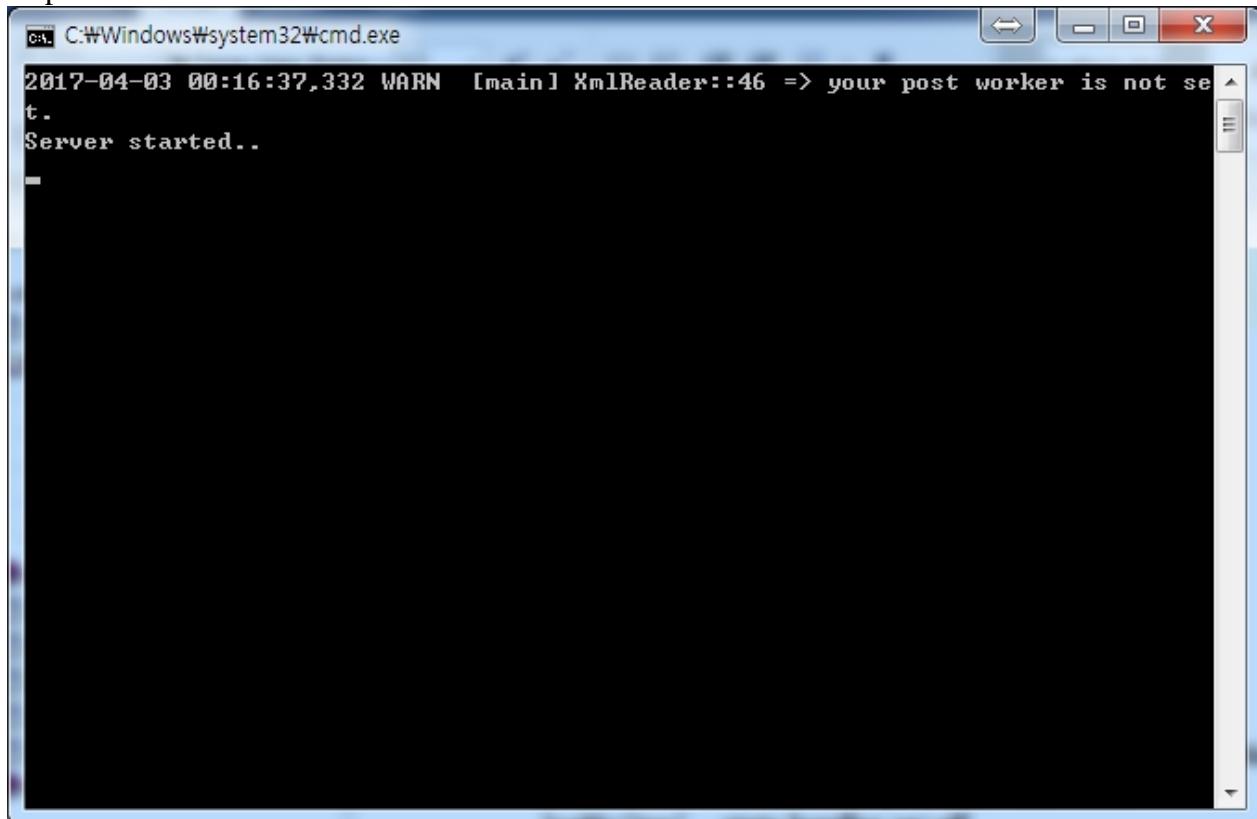
```
APPMEMORY = "true"
memory = "true"
excpt = "true"
disk = "true"
network = "true" >
</StateHandle>
</XmAmServer>
```

Step3 . Setting up log
please see Log Setting Category.

Step4. Set RunFile.

```
@echo off
set JAVA_HOME="C:\Java64\jdk1.6.0_45" --Set your java Path
"%JAVA_HOME%\bin\java" -cp lib\monitor_Server.jar;.;and your statehandle path
monServer.ServerStarter -- see that classpath contain "."(current Path)
```

Step5. Run



if you see "Server started.." than server run correctly.

StateHandle

this make your addtinal work if event has occur.
class will be used in Msg Send or Send Event to other System.

it is not YukMonitoring Side. Just Your Site addon operation.

```
public class TestHandle extends AbsPostWork{
    @Override
    public void work(EventData data) {
        //work on any of event occur.
        //Param EventData is detail data of event
    }

    @Override
    public void prework() {
        //prepare Setup before work function work.
        //it just work once after class creted.
    }
}
```

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Collector

how to run Yuk Mon Collector run. step by step

Step 1. check your composition

 lib	2017-03-31 오후...	파일 폴더	
 Collector.xml	2017-02-24 오후...	XML 문서	1KB
 logback.xml	2017-02-03 오전...	XML 문서	2KB
 run.bat	2017-03-31 오후...	Windows 배치 파일	1KB

1-1. lib

collector needed jar file inside it.

1-2. Collector.xml

server setting file. further infomation below.

1-3 . logback.xml

logging setting file. see the Log Setting Category.

1-4 . run.bat

excutable file. further infomation below.

Step 2. Collector Setting.

<?xml version="1.0"?>

<XmCollector MyName="COLL" - collector name . use unique name.

Type="COLLECTOR" - do not modify

collectorIp="127.0.0.1" - collector bing ip. accept agent connect

collectorPort="2107" - collector bing port. accept agent connect

serverIp="127.0.0.1" - Yuk Server Ip

serverPort="2109" - Yuk Server Port

backIp ="" - **Yuk BackUp Server Ip. BackUp Server Will be placed another machine**

backPort="" - **Yuk BackUp Server Port.**

machineInfo="true" - **Machine Infomation Sending On/Off**

trace="false" - **console print system trace data.**

slf4j="true" - **slf4j use. if false setted logback implementaion used. >**

<workInterval -**sending interval Collector to Server. period is second**

Resource = "10"

Trans = "10"

Log = "10"

Event = "10"

Health = "10"

Info = "10"

Dis="10">

</workInterval>

<SubChildList>

<xstorm01 -- **Sub Child Name(Agent)**

type="DELETE,CREATE,DOWN" -- **Sub Child Collected Transaction Type**>

</xstorm01>

</SubChildList>

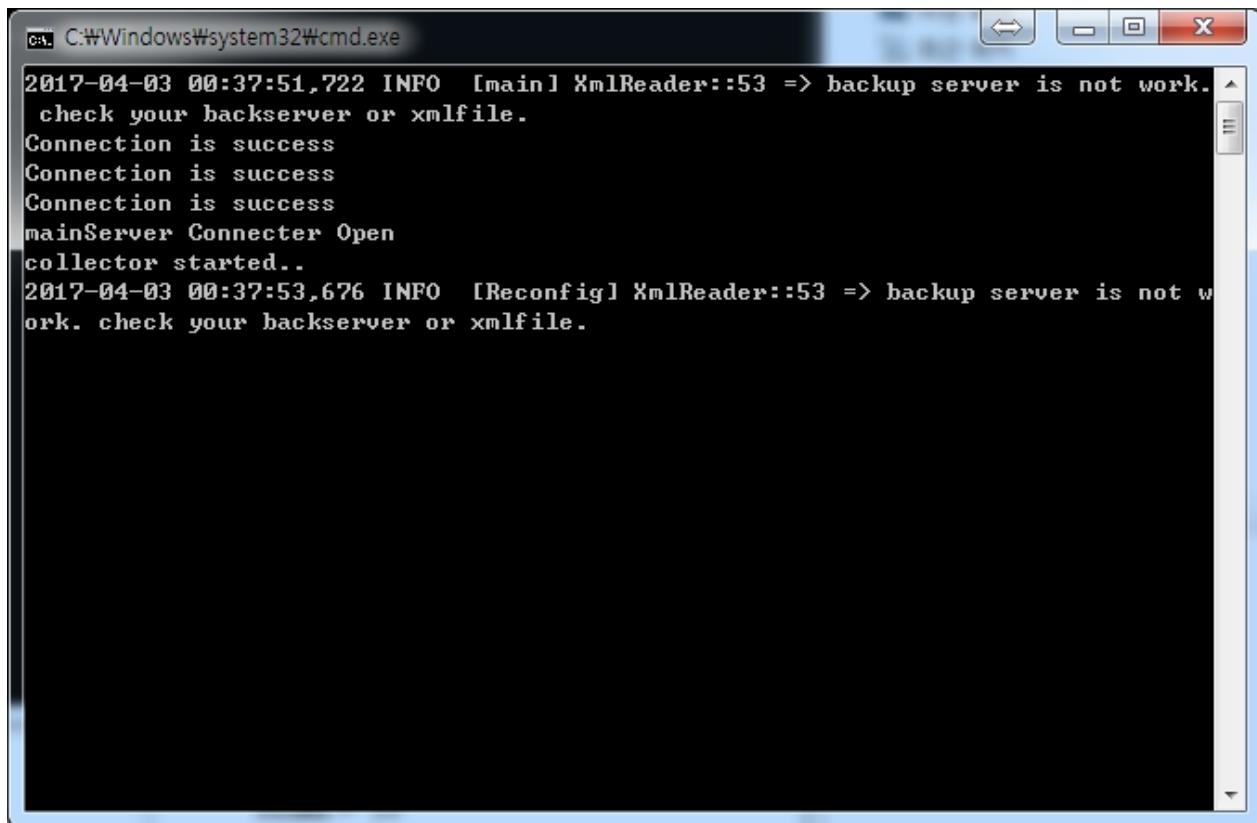
</XmCollector>

Step3 . Setting up log
please see Log Setting Category.

Step4. Set RunFile.

```
@echo off
set JAVA_HOME="C:\Java64\jdk1.6.0_45" --Set your java Path
"%JAVA_HOME%\bin\java" -cp lib\monitor_Collector.jar;. monCollector.CollectorStarter --  
see that classpath contain "."(current Path)
```

Step5. Run



```

C:\Windows\system32\cmd.exe
2017-04-03 00:37:51,722 INFO [main] XmlReader::53 => backup server is not work.
check your backserver or xmlfile.
Connection is success
Connection is success
Connection is success
mainServer Connecter Open
collector started..
2017-04-03 00:37:53,676 INFO [Reconfig] XmlReader::53 => backup server is not work.
check your backserver or xmlfile.

```

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Agent

how to run Yuk Mon agent run. step by step

Step 1. check your composition

 Agent.xml	2017-02-24 오후...	XML 문서	1KB
 go.bat	2017-03-17 오후...	Windows 배치 파일	1KB
 logback.xml	2017-02-03 오전...	XML 문서	2KB
 monitor_aspect.jar	2017-03-17 오전...	Executable Jar File	7,537KB

1 - 1. Agent.xml
Agent Setting file

1 - 2 . go.bat

Not YukMon composition. it is your application run file that already in use.

1-3. logback.xml

logback configuration file.

1-4. monitor_aspect.jar

need to be agent.

Step 2. Agent Setting.

<?xml version="1.0"?>

<XmAgent MyName="xform01" **-Agent name. needed unique Name.**

Type="AGENT" **- do not modify**

collectorIp="127.0.0.1" **- collector ip.**

```

collectorPort="2107" - collector Port.
trace="false" - console print system trace data.
slf4j="false" - slf4j use. if false setted logback implementaion used.
class="agent.ext.xtorm.XtormMonitor" -- transaction catch class name. see
TransHandle Category>
<workInterval -sending interval Agent to Collector. period is second
  Resource = "5"
  Trans = "5"
  Log = "5"
  Event = "5"
  Health = "5"
  Stack = "60"
  HotSpot = "10"
  DBHotSpot = "10"
  Excpt="10"
  Dis="5">
</workInterval>
<!-- <Xvarm xvarmIp="127.0.0.1" xvarmPort="2102" xvarmid="SUPER" xvarmpass="SUPER"
Physical="False"/> -->
</XmAgent>

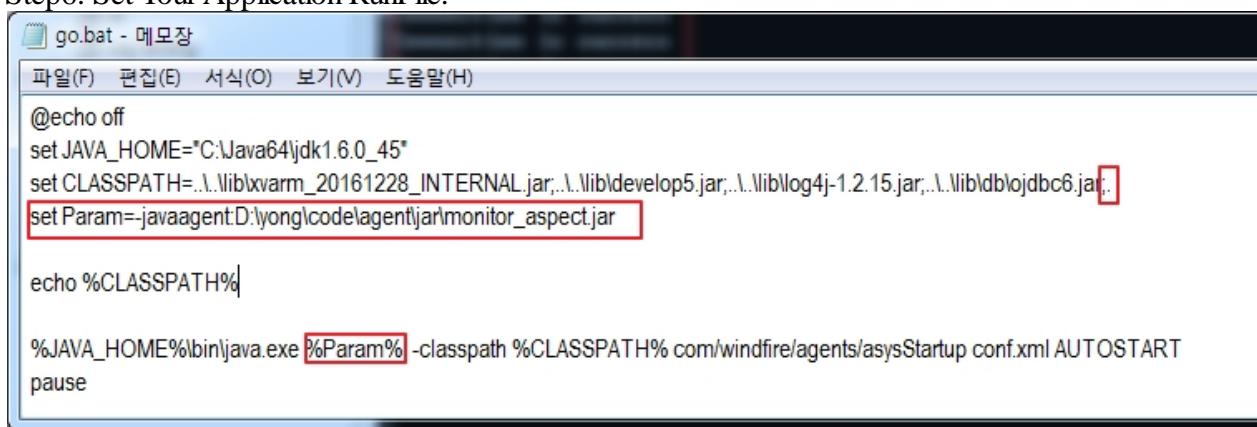
```

Step3. Set Aop.Xml
see Aop Setting Category

Step4. make TransHandle Class
see TransHandle Category

Step5 . Setting up log
please see Log Setting Category.

Step6. Set Your Application RunFile.



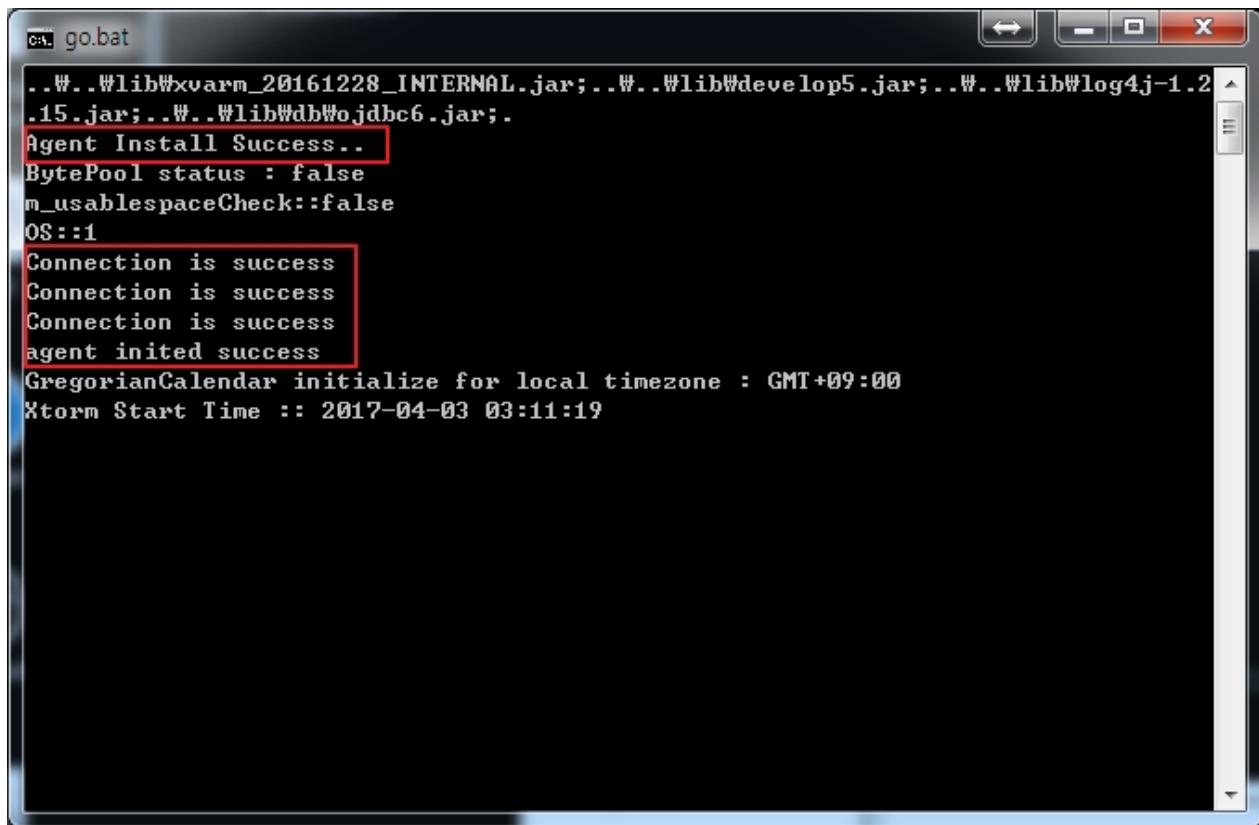
```

go.bat - 메모장
파일(F) 편집(E) 서식(O) 보기(V) 도움말(H)
@echo off
set JAVA_HOME="C:\Java64\jdk1.6.0_45"
set CLASSPATH=..\lib\xvarm_20161228_INTERNAL.jar;..\lib\develop5.jar;..\lib\log4j-1.2.15.jar;..\lib\db\ojdbc6.jar
set Param=javaagent:D:\yong\code\agent\jar\monitor_aspect.jar
echo %CLASSPATH%
%JAVA_HOME%\bin\java.exe %Param% -classpath %CLASSPATH% com/windfire/agents/asysStartup conf.xml AUTOSTART
pause

```

If your make custom TransHandle than classpath add it.

Step7. Run



```
..#.lib#xvarm_20161228_INTERNAL.jar;..#.lib#develop5.jar;..#.lib#log4j-1.2
.15.jar;..#.lib#db#ojdbc6.jar;
Agent Install Success..
BytePool status : false
m_usableSpaceCheck::false
OS::1
Connection is success
Connection is success
Connection is success
agent init success
GregorianCalendar initialize for local timezone : GMT+09:00
Xstorm Start Time :: 2017-04-03 03:11:19
```

if you will see this message when you run your application, than success.

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TransHandle

How To Work When Your Transaction Catched.

```
public class TestMonitor extends AbsMonitor{
    @Override
    public void init() {
        agent.init();
        agent.event(ModelDic.EVENTLEVEL_INFO, "Server has been initied.");
        //any of your code
    }

    @Override
    public void end() {
        //any of your code
        agent.event(ModelDic.EVENTLEVEL_ERROR, "Server has been shutdowned.");
        agent.shutdown();
    }

    @Override
    public void transStart(Object targetClass, Object[] args) {
        //Your code To Catch Transaction before conatain.
        //String group is group ( transaction type)
        MainTracer.initTrans(String transactionId, String Group);
    }

    @Override
    public void transEnd(Object targetClass, Object returnObject, Object[] args) {
        // Your code To Catch Transaction before finalizing.
        //boolean rightWork parameter is succes or not Determine.
        MainTracer.endTrans(String transactionId, boolean rightWork);
    }
}
```

```

    }

    @Override
    public void log(Object[] args) {
        // Your code To Catch Log before contain.
        agent.log(String logLevel, String defMsg);
    }
}

```

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Aop Setting

Aop.Xml configuration file that you may catch your concern.
this file inside in Monitor_aspectj.jar / META-INF /

```

<aspectj>
<aspects>
    <aspect name="agent.EngineAspect" />
    <concrete-aspect name="agent.ConcreteAspect" extends="agent.EngineAspectCus">
        <pointcut name="init" expression="execution(* com.windfire.comm.asysSockSrv.initialize(..))" -Your Application Starting Point /
        <pointcut name="end" expression="execution(* com.windfire.comm.asysSockSrv.terminate(..))" -Your Application End Point /
        <pointcut name="transStart" expression="execution(* com.windfire.base.asysTransact.start(..))" -Your Application Transaction Starting Point/
        <pointcut name="transEnd" expression="execution(* com.windfire.base.asysTransact.end(..))" -Your Application Transaction End Point/
        <pointcut name="microTrans" expression="execution(* com.windfire..*(..))" -Your Application Top Packing Name/
        <pointcut name="log" expression="execution(* com.windfire.agents.asysLogWriterLog4j.logMessage(..)) ||
                                         execution(* com.windfire.agents.asysLogWriterFile.logMessage(..))" -Your Application Logging Method Name />
    </concrete-aspect>
</aspects>
<weaver options="-nowarn -XnoInline -Xlint:ignore" >
<!-- <weaver options="-verbose -showWeaveInfo -XnoInline" > -->
<include within="com.windfire..*"/> - Your Target Packaging.
<include within="java.sql..*"/> - if You Use JDBC than include it.
<include within="java.lang.System..*"/> - Console trace Catch.
<exclude within="agent..*"/> -YukMon is not by my Target
</weaver>
</aspectj>

```

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UI

how to run Yuk Mon UI run. step by step

Step 1. check your composition



monUi.war

2017-04-02 오후...

ALZip WAR File

19,795KB

Step 2. UI Setting.

Setting Xml placed in WEB-INF/XMUI.xml

<?xml version="1.0" encoding="euc-kr"?>

```

<XMUI
    MyName="WAS1" -UI name.
    Type="CONSOLE" - do not modify .
    ip="127.0.0.1" -default setted server ip
    port="2109" -default setted server port
    trace="false" - console print system trace data.
    slf4j="false" - slf4j use. if false setted logback implementaion used.>
</XMUI>

```

Step3 . Setting up log

Log.xml placed in WEB-INF\classes\logback.xml
please see Log Setting Category.

Step4. Deploy War

before Deploy, check system requirement.
it is following your WAS Deploy Process.

Step5. Run

if you connect to web page like "localhost:8080/MonUi" and you will see the login page.
next step is "Getting Started" Category.

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Log Setting

this category how to logback configuration.

```

<?xml version="1.0" encoding="UTF-8"?>
<configuration scan="true" -- auto reconfig on/off
    scanPeriod="60 seconds" -- scan interval >

<logger name="io.netty" level="ERROR"/> -- tcp network logging level

<appender name="console" class="ch.qos.logback.core.ConsoleAppender"> -- system console logger
    <encoder>
        <pattern>%d %-5level [%thread] %logger{0}::%L => %msg%n</pattern>
    </encoder>
</appender>

<appender name="ROLLING" class="ch.qos.logback.core.rolling.RollingFileAppender"> -- file logger
    <file>log/agent.log</file> -- current log file path
    <rollingPolicy class="ch.qos.logback.core.rolling.SizeAndTimeBasedRollingPolicy">
        <!-- rollover daily -->
        <fileNamePattern>log/agent-%d{yyyy-MM-dd HH}.%i.log</fileNamePattern> -- rolling log file path
        <maxFileSize>50MB</maxFileSize> -- log file max size
        <maxHistory>1</maxHistory> -- log file remaing Day
        <totalSizeCap>20GB</totalSizeCap> -- total log file size limit
    </rollingPolicy>
    <encoder>
        <pattern>%d %-5level [%thread] %logger{0}::%L => %msg%n</pattern> -- log file pattern
    </encoder>
</appender>

```

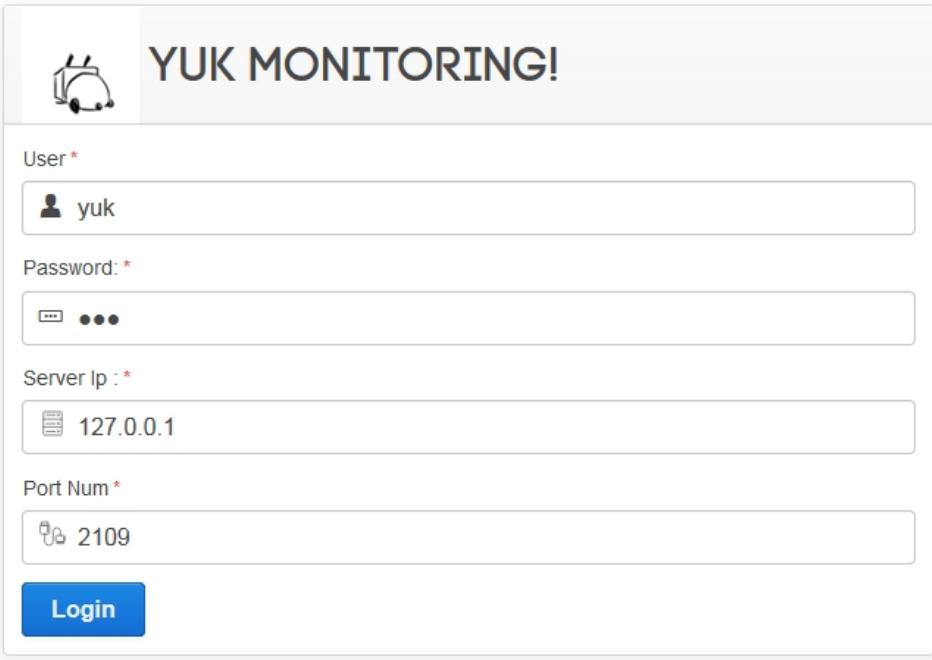
```
<root level="TRACE"> -- log level  
  <appender-ref ref="console"/> -- system console use. if you not want using, delete this line  
  <appender-ref ref="ROLLING"/>  
</root>  
</configuration>
```

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Getting Started

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Login



The image shows a login form titled "YUK MONITORING!" with a small icon of a monitor and a keyboard. The form fields are as follows:

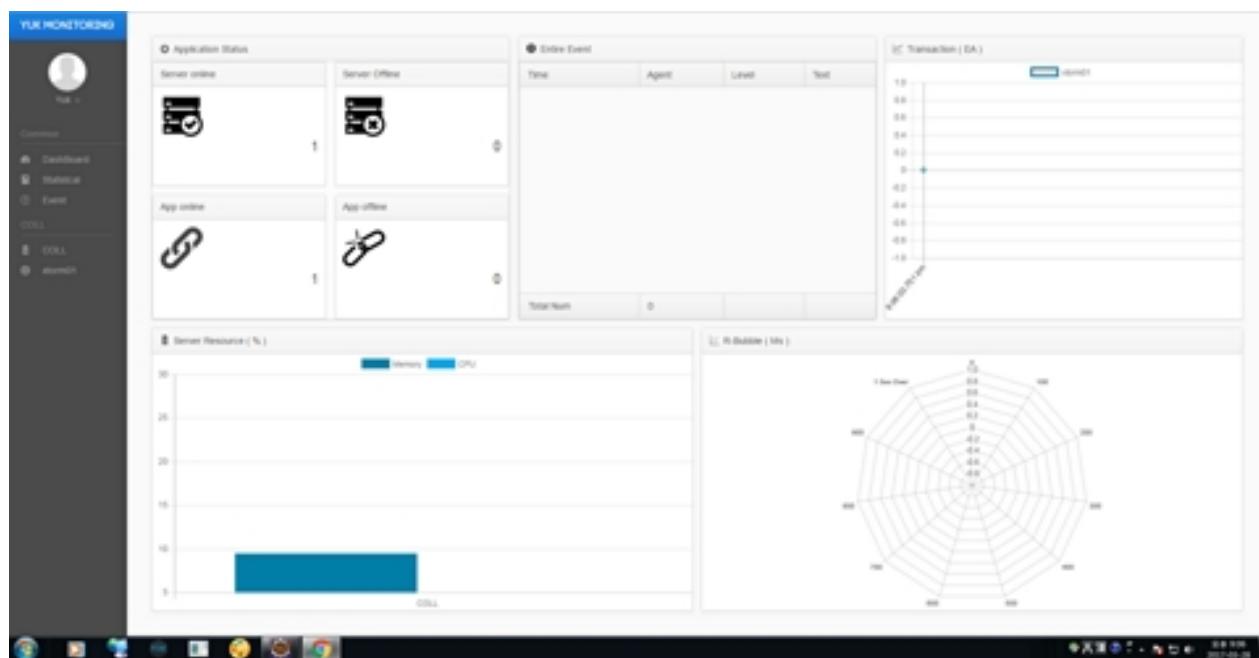
- User *: A text input field containing "yuk".
- Password: *: A text input field showing three masked characters (•••).
- Server Ip : *: A text input field containing "127.0.0.1".
- Port Num *: A text input field containing "2109".
- Login**: A blue button at the bottom of the form.

This Will be Your First Page on Use For Yuk Monitoring.

User / Password encrypted so we don't know if you foget it.
Server Ip /Port is YukServer Ip/Port you will setUp.

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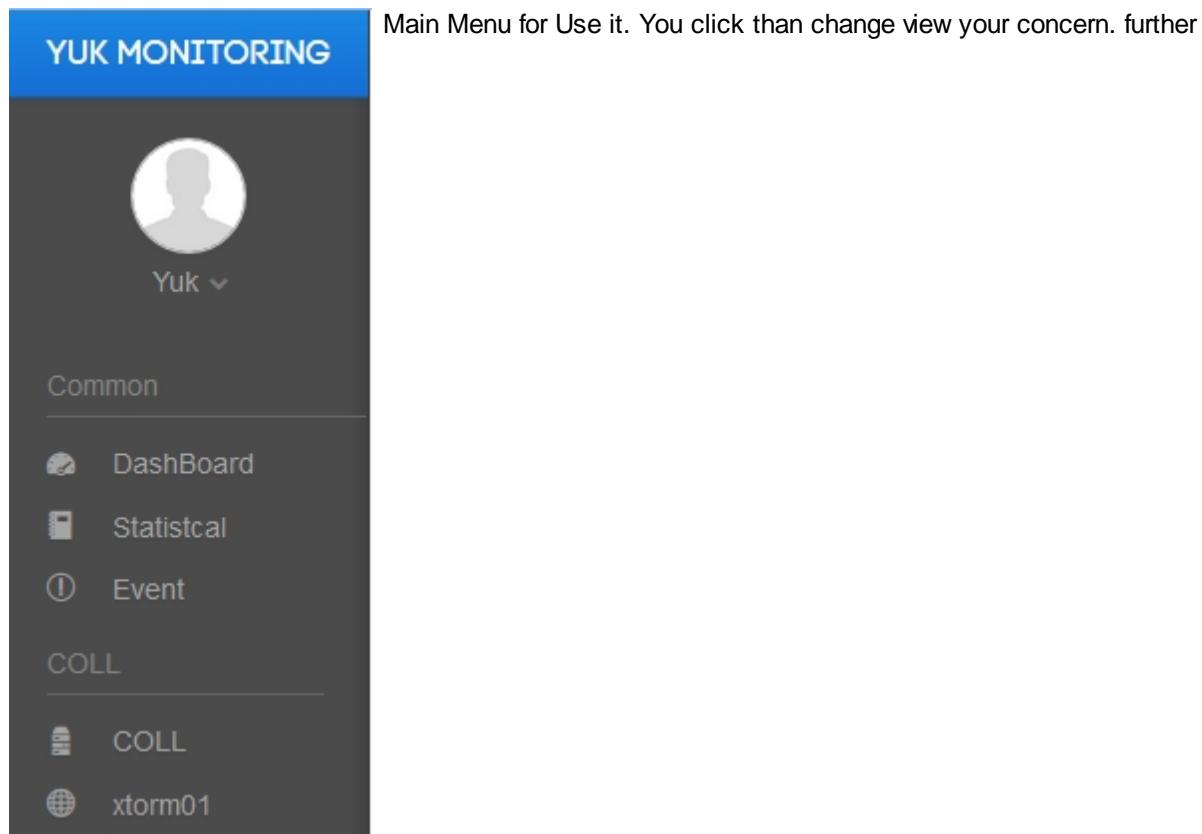
MainView



You Will See this Page than You Connect Server Succesfully.
first server not send data .
after few second, you will see data.

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Menu



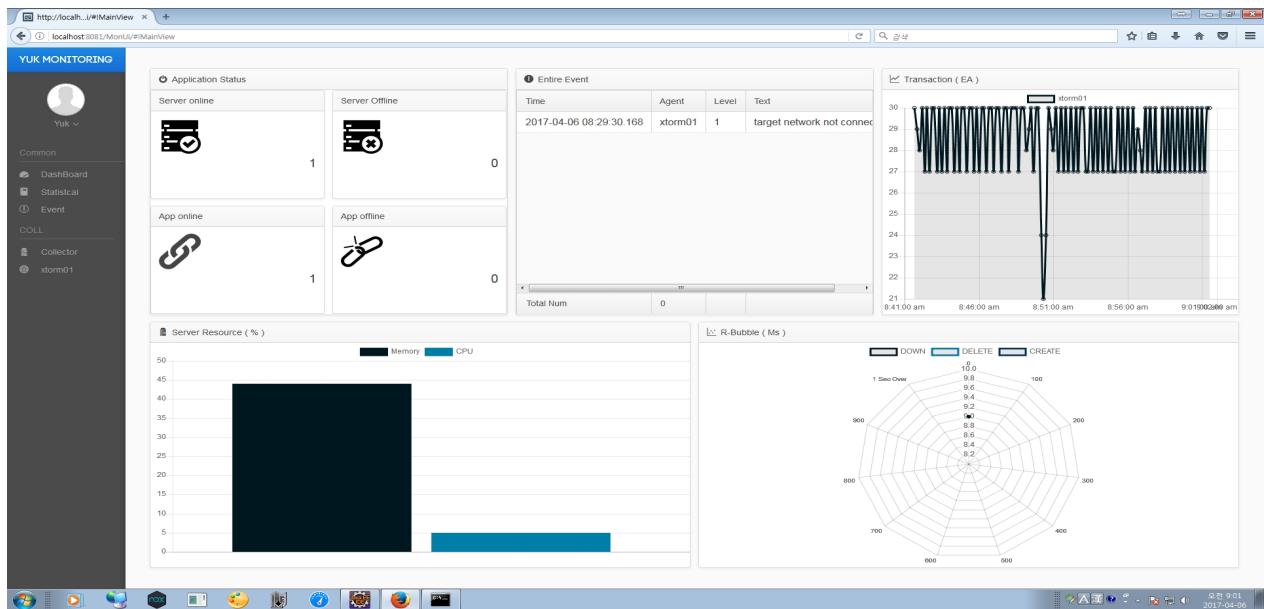
information see Category.

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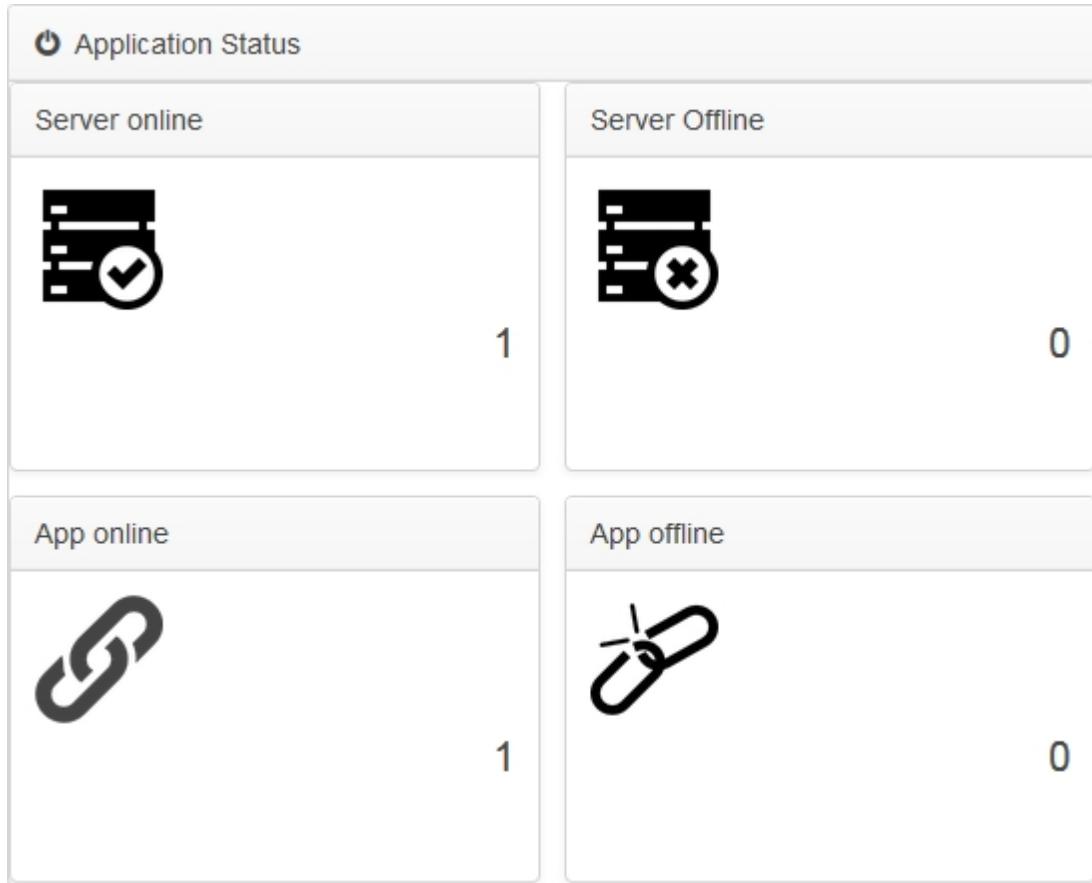
DashBoard

DashBoard is top view of Yuk monitoring. all application, collector , event, R-Bubble and etc is displaying in short.

YukMonitoring



1. Application Status



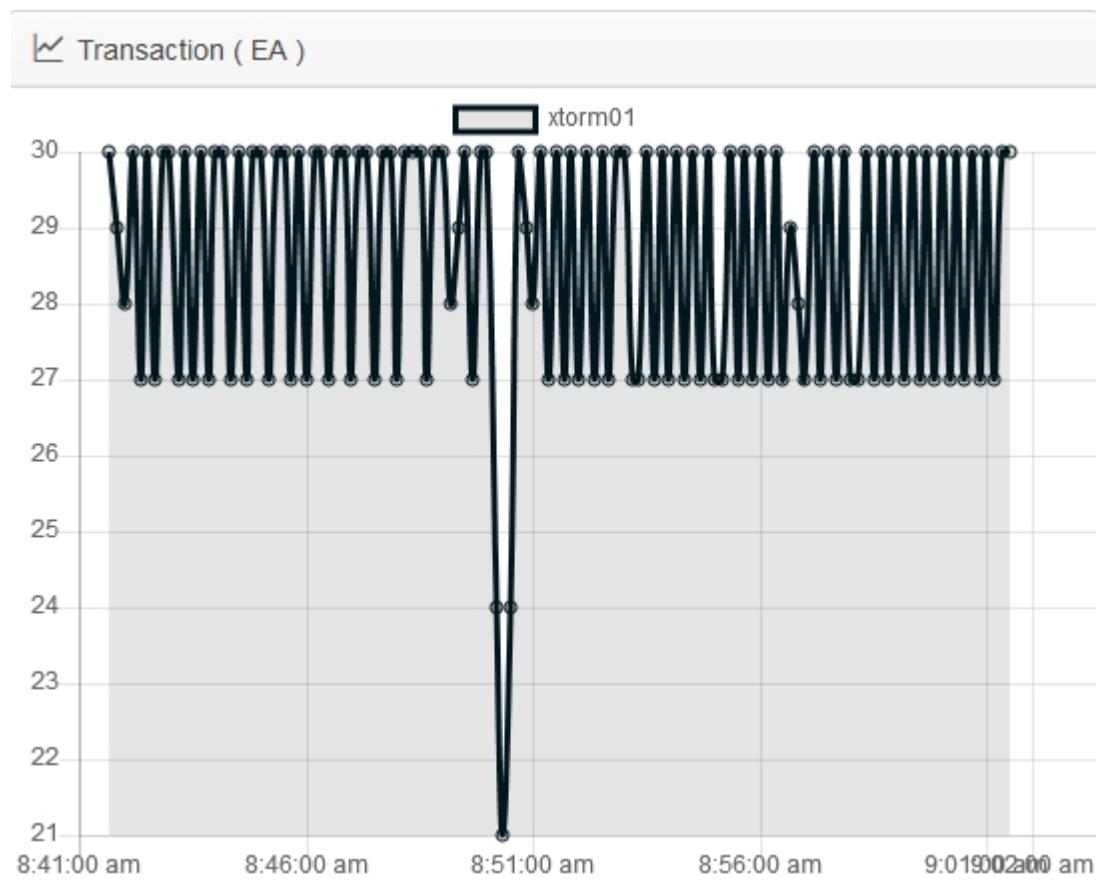
application status check on your agent, collector rightly connected server.
left side (eg . app online, server online) is Online
right side display server can't check status any reson.

2. Entire Event

! Entire Event			
Time	Agent	Level	Text
2017-04-06 08:29:30.168	xtorm01	1	target network not connected
Total Num	0		

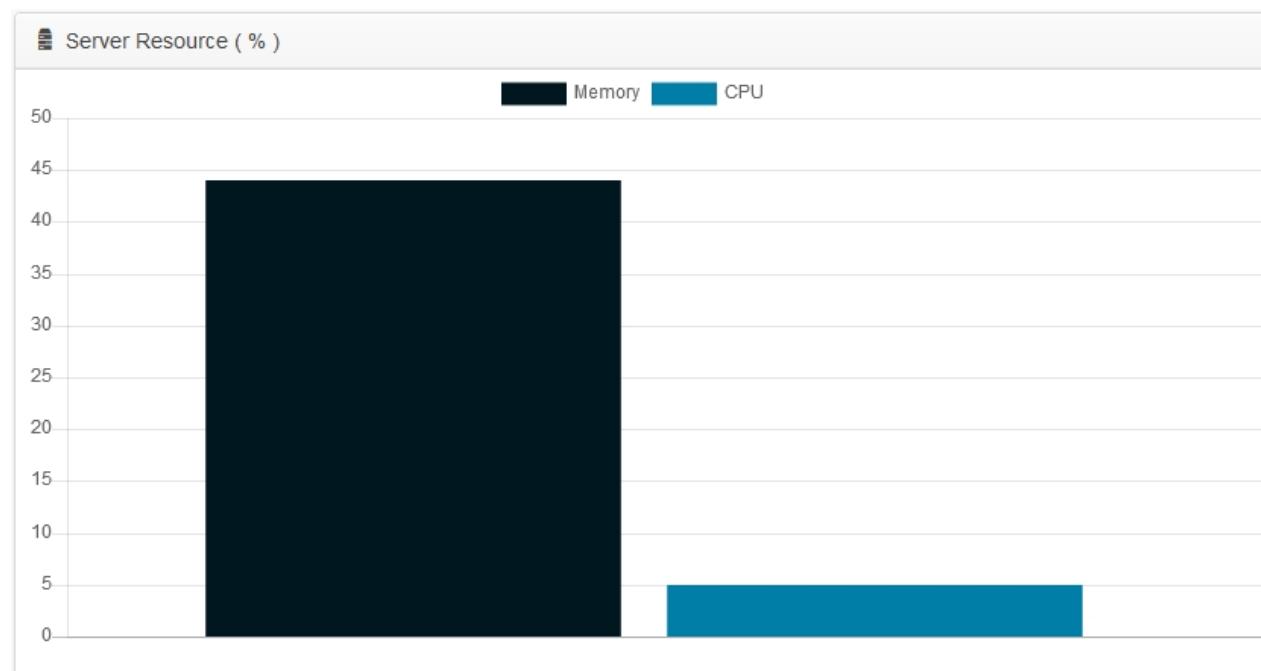
all event display in this grid. Time and occurred Target, level(you specified), text

3. Transaction



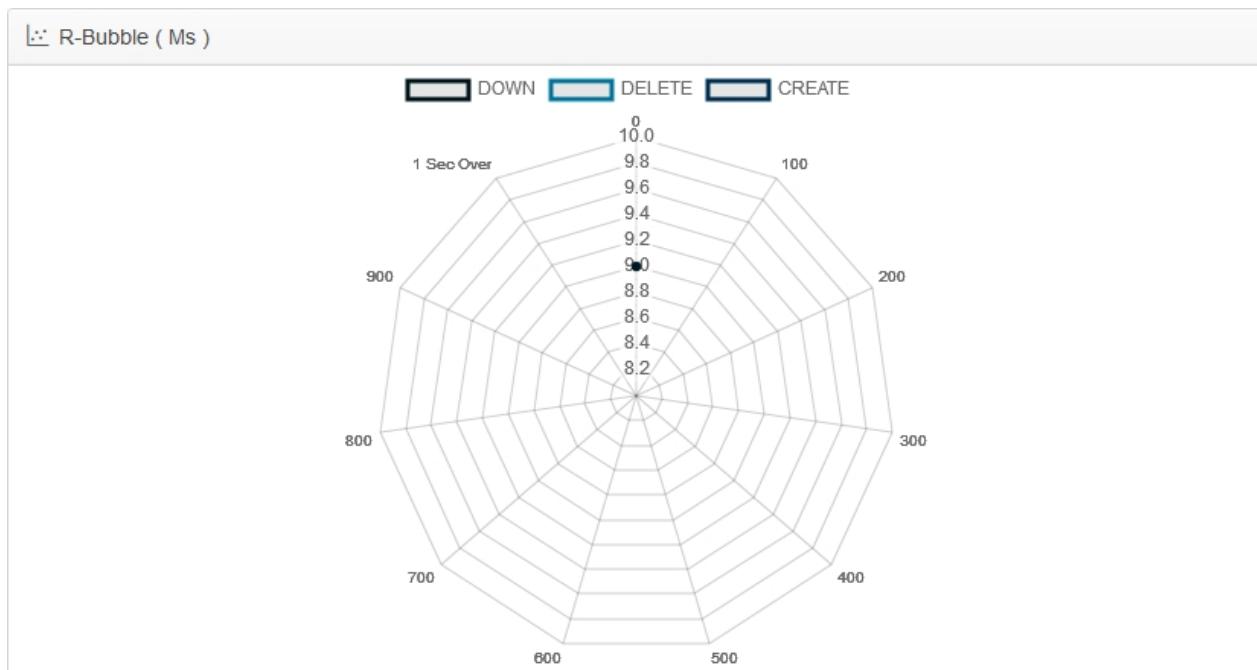
Throughput of each Agent Transaction. this graph show sum of agent transaction if you set group.

4. Server Resource



Cpu, Memory display in bar chart each Collector(Machine).

5. R- Bubble



Radar Chart Show All Of Transaction Group That Distributed responseTime.
 0 Meaning of 0~100 response Time Transaction.
 100 Meaning of 100~200 response Time Transaction.
 and other same mean.
 if response over 1 sec than 1 Sec over arise.

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Statistcal

Can You See This Search Panel If You Click Statistacal Menu.

Statistical Search

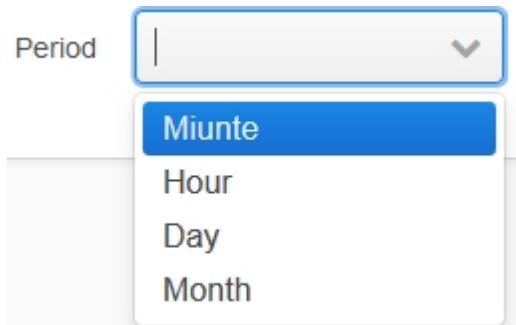
Type	Please Select	Start Date :	<input type="text" value="17. 4. 10 10:34:28 AM"/>	<input type="button" value="Search"/>
Period	Please Select	End Date :	<input type="text" value="17. 4. 10 10:34:28 AM"/>	

1. Set Type

Type	<input type="text"/>
Period	<input type="text" value="xtorm01"/> <input type="button" value="COLL"/>

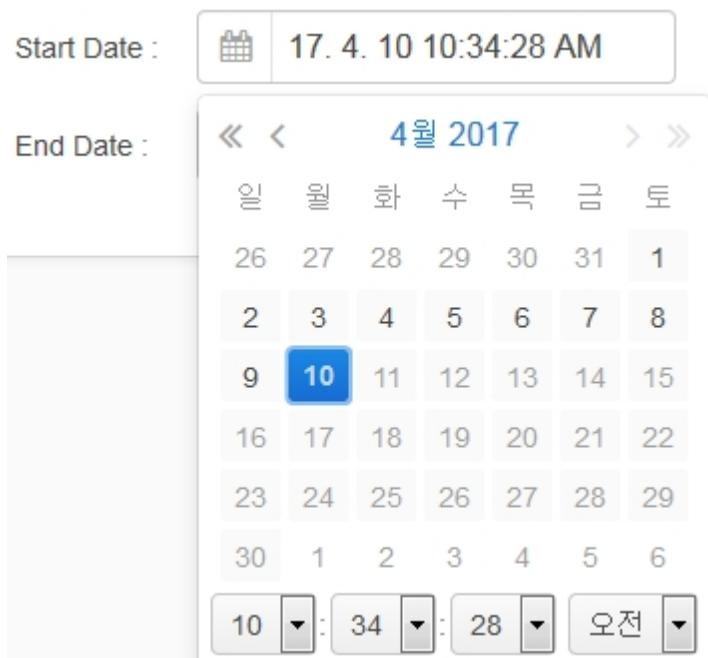
Click Type Combobox than see your agent,collector set you want see statistic.

2. Set Period



Set Period you maked.

3. Set Date



You must be Set Starting Time and End Time To Making Statistic.

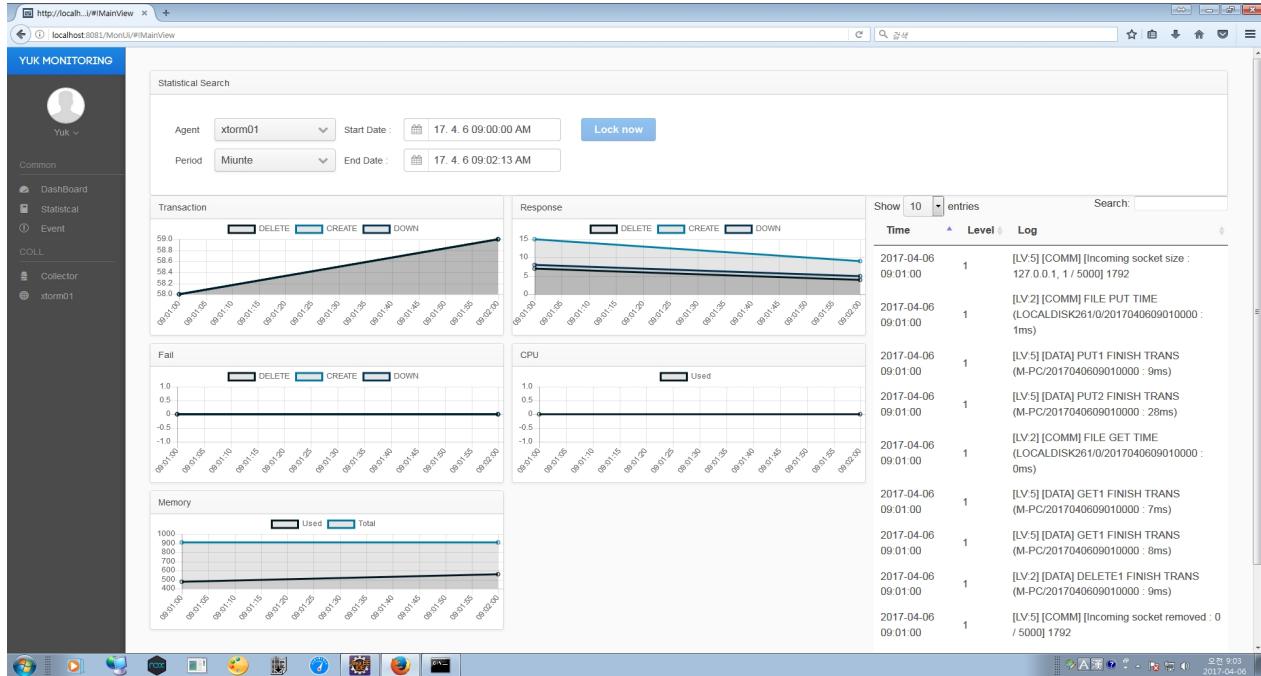
4. Click Search Button.

Detail Infomation See Below Category.

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Agent

if you click Agent Type See below Graph and Grid.



1. Transaction

Throughput of You Can See.

2. Response

Time To Throughput Taken.

3. Fail

Fail of Throughput

4. Cpu

Application Consumed.

5. Memory

That Time Memory Consumed.

6. Log

all of log Time that you settted Search Time.

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Coll

if you click Collector Type See below Graph



1. Cpu

That Time your Machine Total Cpu Consume. User is Application of your machine runed. System is Os Consumed Cpu.

2. Memory

That Time your Machine Total Memory and Using.

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Event

Search Event Orrured.

The screenshot shows a table of event logs. The columns are Time, Name, EventLevel, and EventText. The events listed are:

Time	Name	EventLevel	EventText
Show all	Show all	Show all	Show all
2017-04-06 08:00:30.168	COLL	1	target network not connected
2017-04-06 08:01:30.168	COLL	1	target network not connected
2017-04-06 08:02:30.168	COLL	1	target network not connected
2017-04-06 08:13:44.781	COLL	2	D:\ in COLL has too high Disk I/O. size is400.0%

1. Set Type.

If You Want Search Type.

2. Set Search Level.

you specific Set Search Level.
you not want null is allowed.

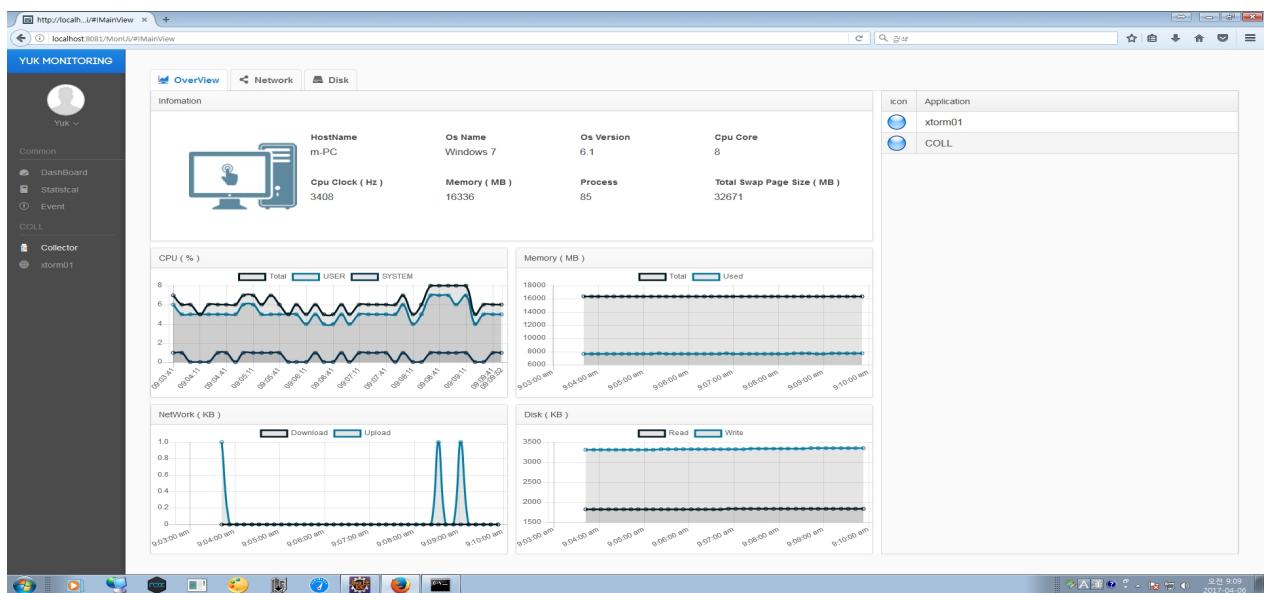
3. Set Time To Search

Start and End time must be Set.

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Collector

this view summarise collector(machine).



1. Information

Information				
	HostName m-PC	Os Name Windows 7	Os Version 6.1	Cpu Core 8
	Cpu Clock (Hz) 3408	Memory (MB) 16336	Process 85	Total Swap Page Size (MB) 32671

1) HostName

This Machine HostName(like Alias)

2) Os Name

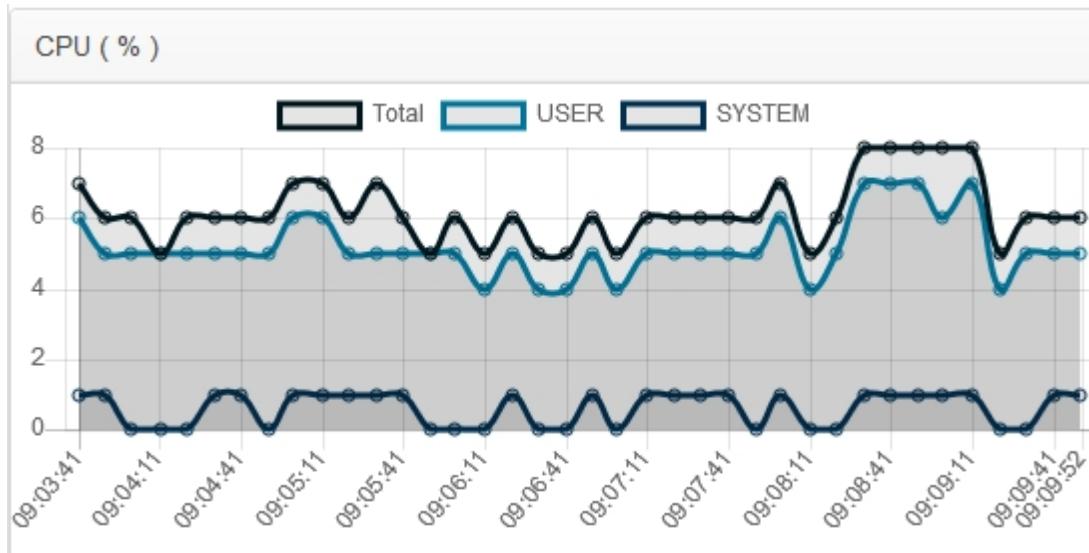
Os Name. eg. window7 / 8.1 / Aix ..etc

3) Os Version

Real Version of Os

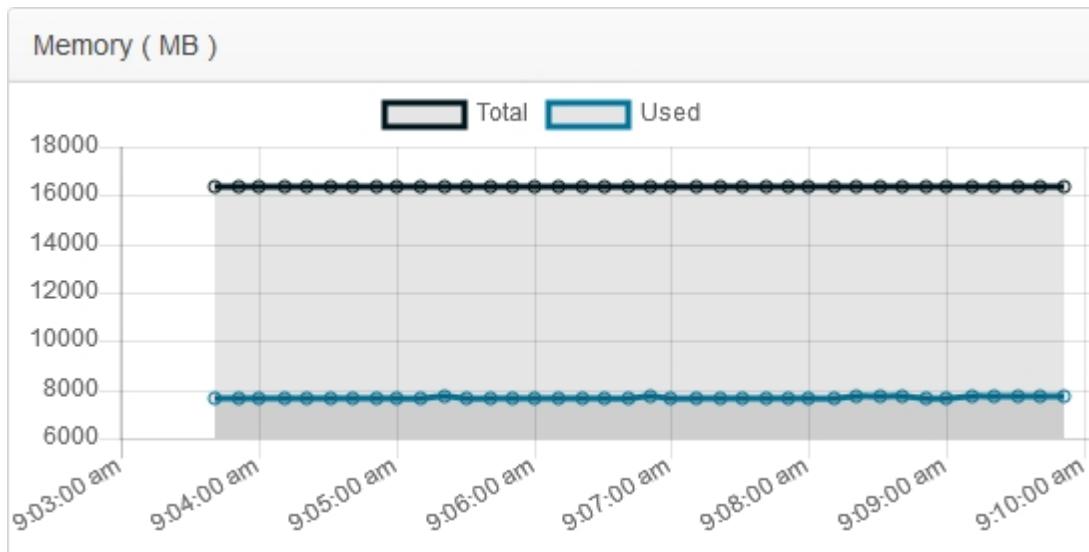
- 4) Cpu Core
Number of Cpu Core.
- 5) Cpu Clock
Each Cpu Core Speed.
- 6) Memory
Entire Machine Memory.
- 7) Process
Number of running Process on Machine
- 8) Total Swap Page Size (Normally Using Like Memory)
Disk Paging Size

2. Cpu



This Graph Show System Interval Avage of Cpu Consume.
Total That represent Total Machine Cousumed, Whole Application. (Not Monitored)
User Represent That User Runed Process.
System is Os running Process.

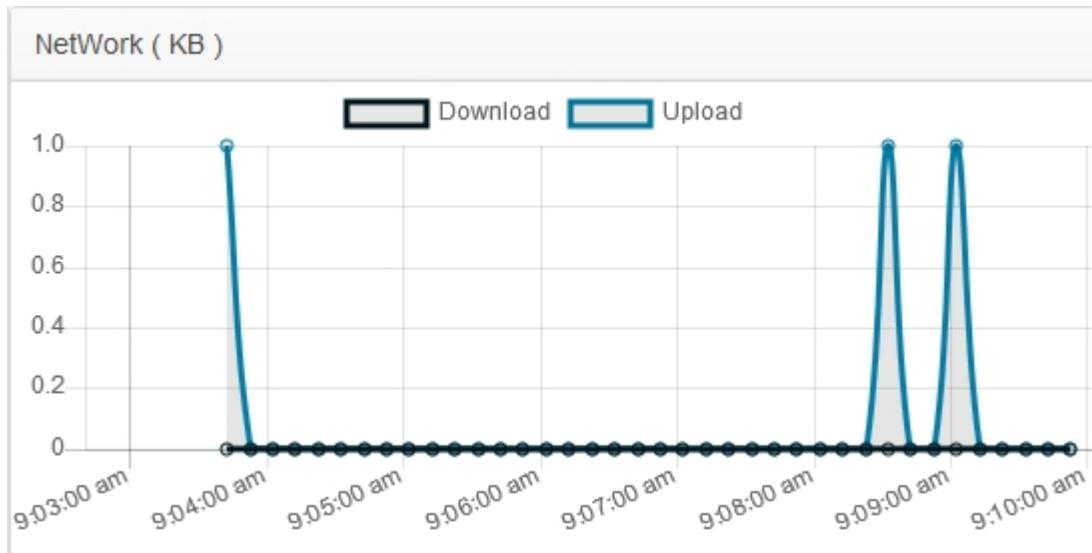
3. Memory



This Graph Show System Interval Avage of Memory Usage.
Total is Machine Has.

Used is Currently Used Memory

4. NetWork



5. Disk



This Graph That Entry Mount Pointed Disk Usage Summary.

Read Represent Disk Access For Reading.

Write Represent Disk Access For Writing.

6. Health

icon	Application
	xstorm01
	COLL

System Health Check State.

If icon not Blue than Your Collector or Application has problem.
icon will be change to Red or Yellow(Network Not Connected.)

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Network

Show Network State That Data has been Last Updated.

Type	Number
Establish	166
Close	0
Listen	33
TimeWait	29
CloseWait	1
FinishWait2	0
FinishWait1	0

Type	Value
MTU	1,500
Max Speed	953
Read	0
Write	0
Read Error	0
Write Error	0

1. Search

Upper Right Side May be You See Auto Refresh than Your Data Update Every Time sent from Server.
If You Want Search Specific Time. Than Set Time and Search.
Auto Refresh Set To Off State.

2. Tcp Connection Statute

TCP Connection Status	
	Number
Establish	166
Close	0
Listen	33
TimeWait	29
CloseWait	1
FinishWait2	0
FinishWait1	0

Establish is Now Connected To Server for Using Network.

Close is Close Connection Already Been Used.

Listen is Acceter For Incomming Network

TimeWait is Ready To go Close State . This Time Wait upon Server Os Parameter. if Server not have any Close_ack from Client.

CloseWait is Server recive Close Request from Client.

FinshWait1 is Client Want Close Than Move To This State.

FinshWait2 is Server Sent To Close_Ack To Client Than Client Connection Move To This State.

3. Contorller List

Controller List



Machine Connected LAN Card List.

If Machine has Mutilple LAN than List Show Up.

4. Ethernet Satue

Ethernet Satue	
Type	Value
MTU	1,500
Max Speed	953
Read	0
Write	0
Read Error	0
Write Error	0

If You Click One of Lan Card List Than See This.

MTU Is Maximum transmission unit, the size of the largest packet that a network protocol can transmit
Max Speed Is LAN Card Speed Can Handle it (Unit is MegaByte). It is not Entrie Network Speed!!

Read is Current Read(Recive) From Card.(Unit is KiloByte).

Write is Current Write(Send) From Card.(Unit is KiloByte).

Read Error is Lan Card Reading Error(All of Ouccred)

Write Error is Lan Card Writing Error(All of Ouccred)

Show Disk State That Data has been Last Updated.

	Write I/O(KB)	Read I/O(KB)	Disk Usage(%)	Disk Queue(%)
used	1,309	1,155	82	0
avail				

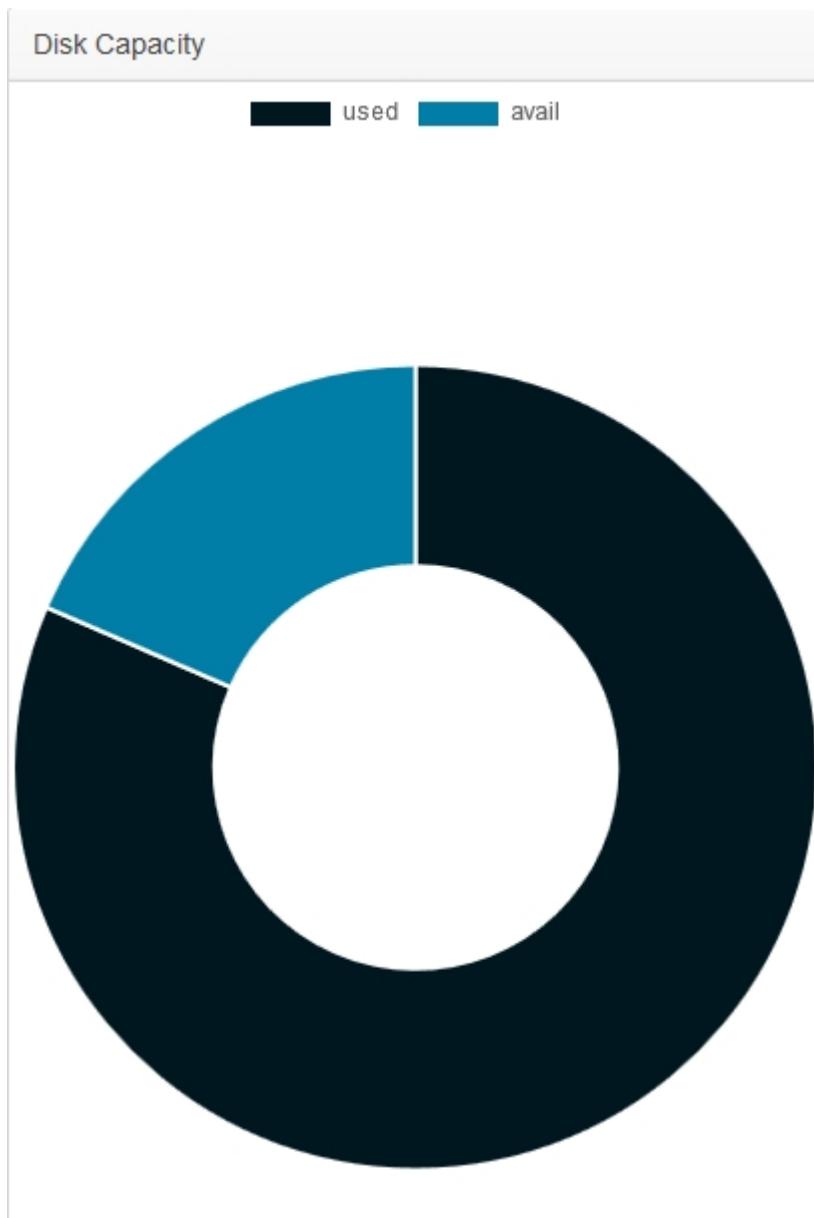
1. Search

Upper Right Side May be You See Auto Refresh than Your Data Update Every Time sent from Server.
If You Want Search Specific Time. Than Set Time and Search.
Auto Refresh Set To Off State.

2. Mount Point

Machine Have Any Mounted Storage Than List Show Up.
Name is Mounted Name. (Not a Path)

5. Disk Capacity



If You Click One Of Mounted Point Than See This Chart.
 Move To Mouse On Chart Than Number Of Size Will Show Up.
 Avail is Remain Size (Unit is Gigabyte)
 Used is Currently Using Size (Unit is Gigabyte)

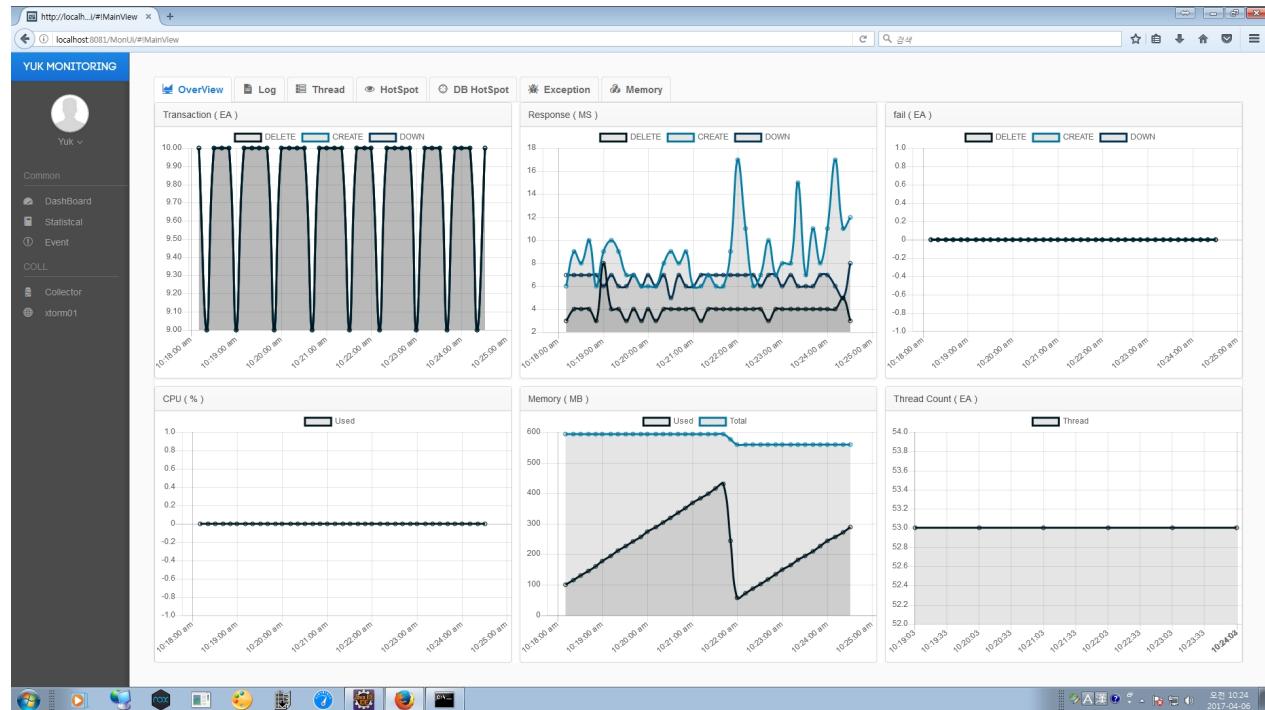
6. Detail Infomation

Write I/O(KB)	Read I/O(KB)	Disk Usage(%)	Disk Queue(%)
1,309	1,155	82	0

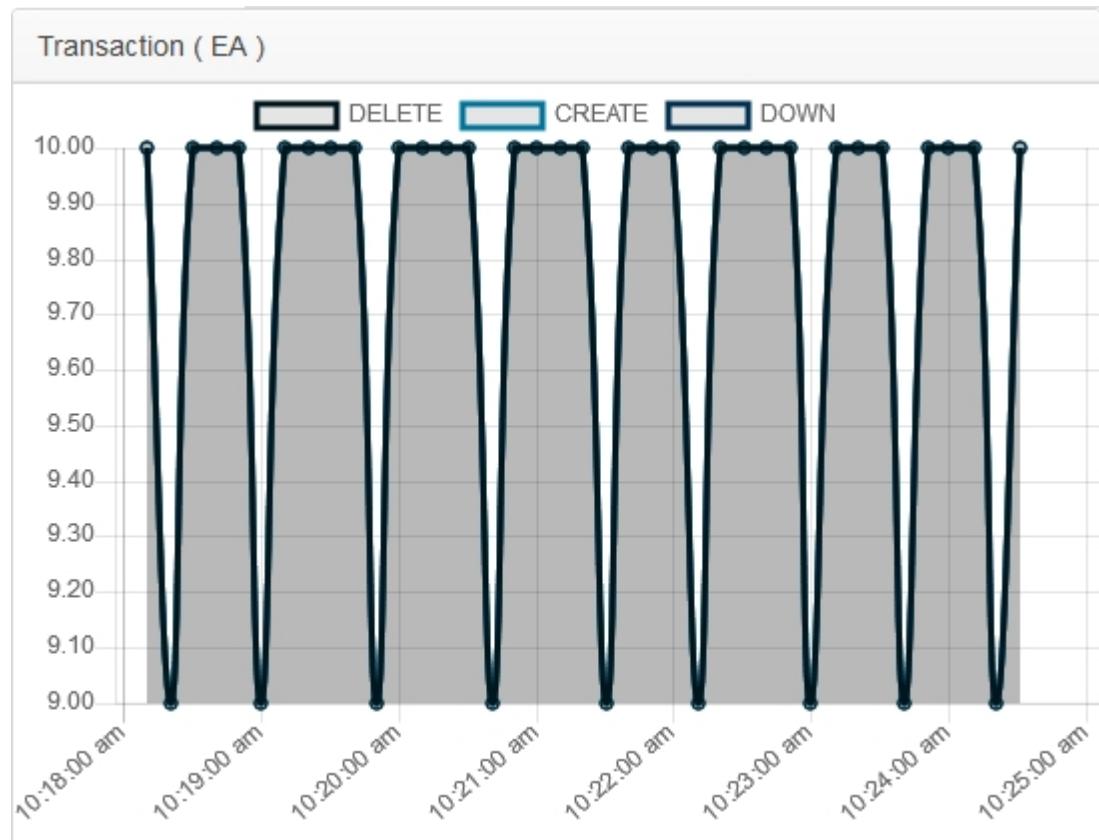
This Grid Show Detail Infomation Of Mounted Point
 Write I/O is Current Writing Size Of Disk Worked.
 Read I/O is Current Reading Size Of Disk Worked.
 Disk Usage is just multiply 100 Time of Disk Queue.
 Disk Queue is Waiting Queue For Disk Work. If this Value over 2 (200 %) Then Yuk Monitor Occur Warn Event.

Agent

this view summarise agent(application).

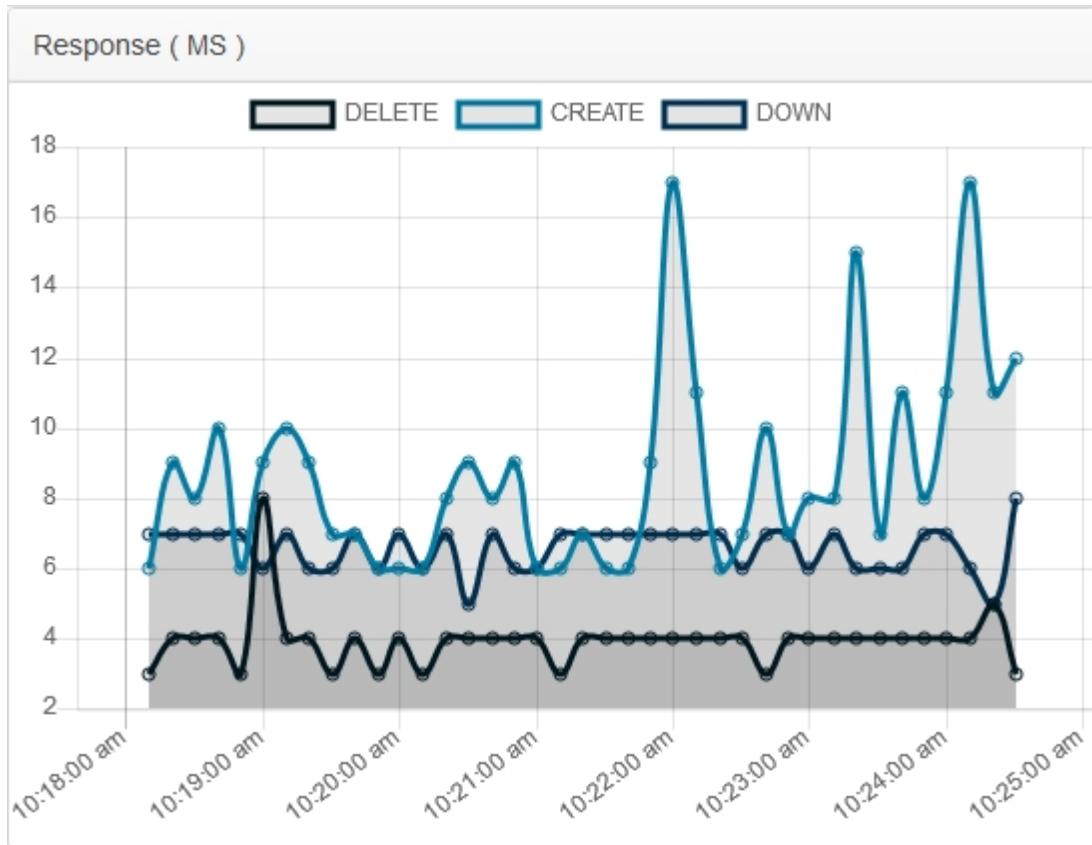


1. Transaction



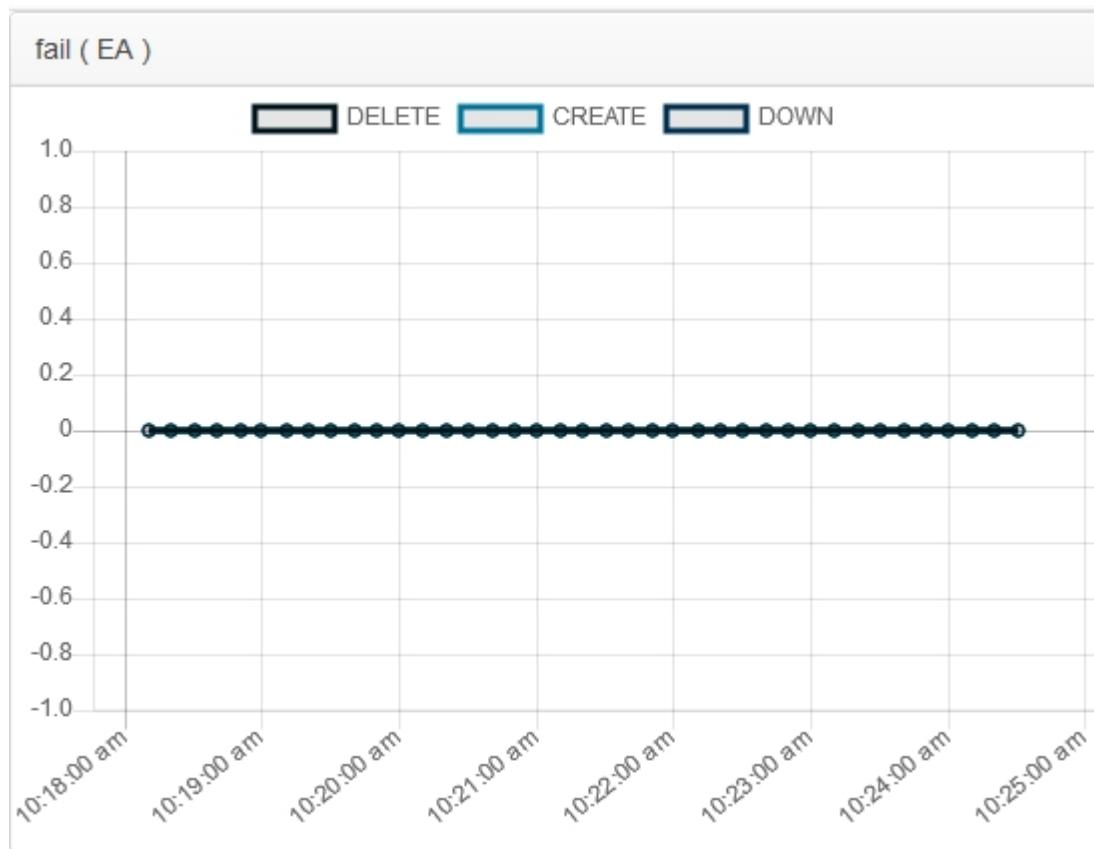
Throughput Of Group. Each Point Show That Sum of Time Inteval Setted From Server.
e.g If You Set Sever Trans Interval 10 Second Than Group Of Transaction is Sum In 10 Second.

2. Response



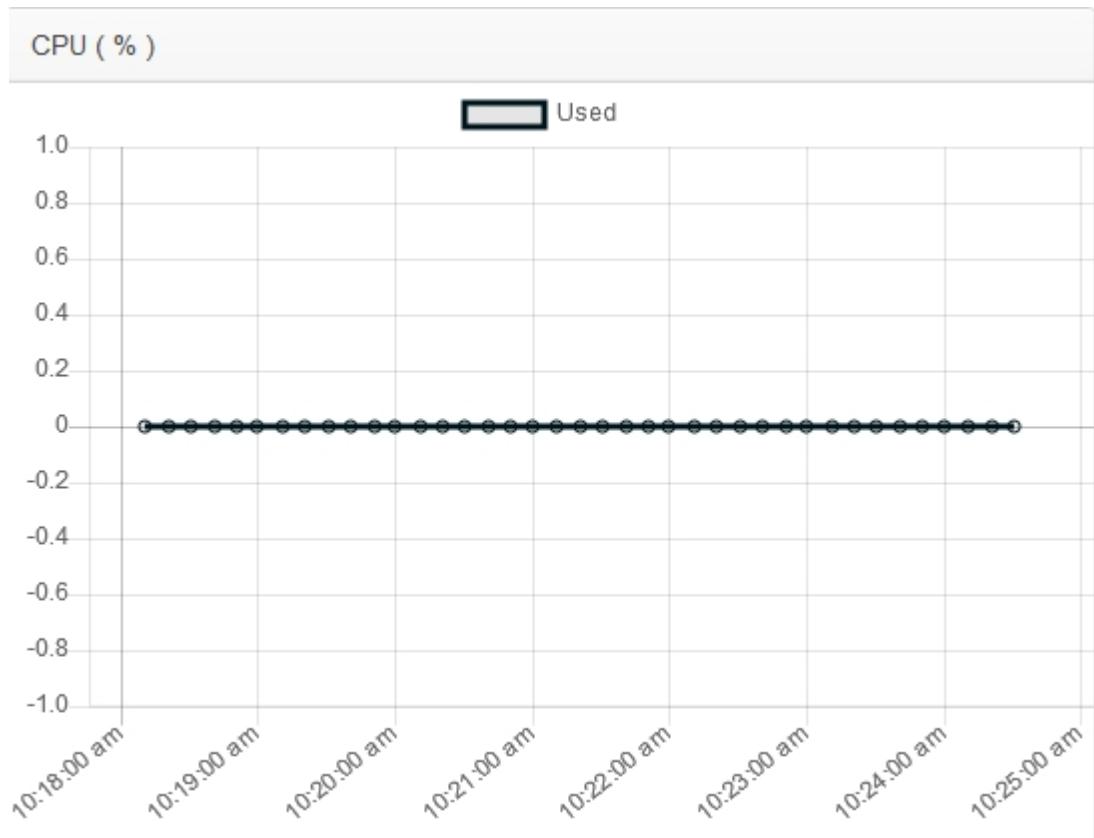
Response Of Group. Each Point Show That Average of Time Inteval Setted From Server.
e.g If You Set Sever Trans Interval 10 Second Than Group Of Transaction is Average In 10 Second Transaction.

3. Fail Transaction



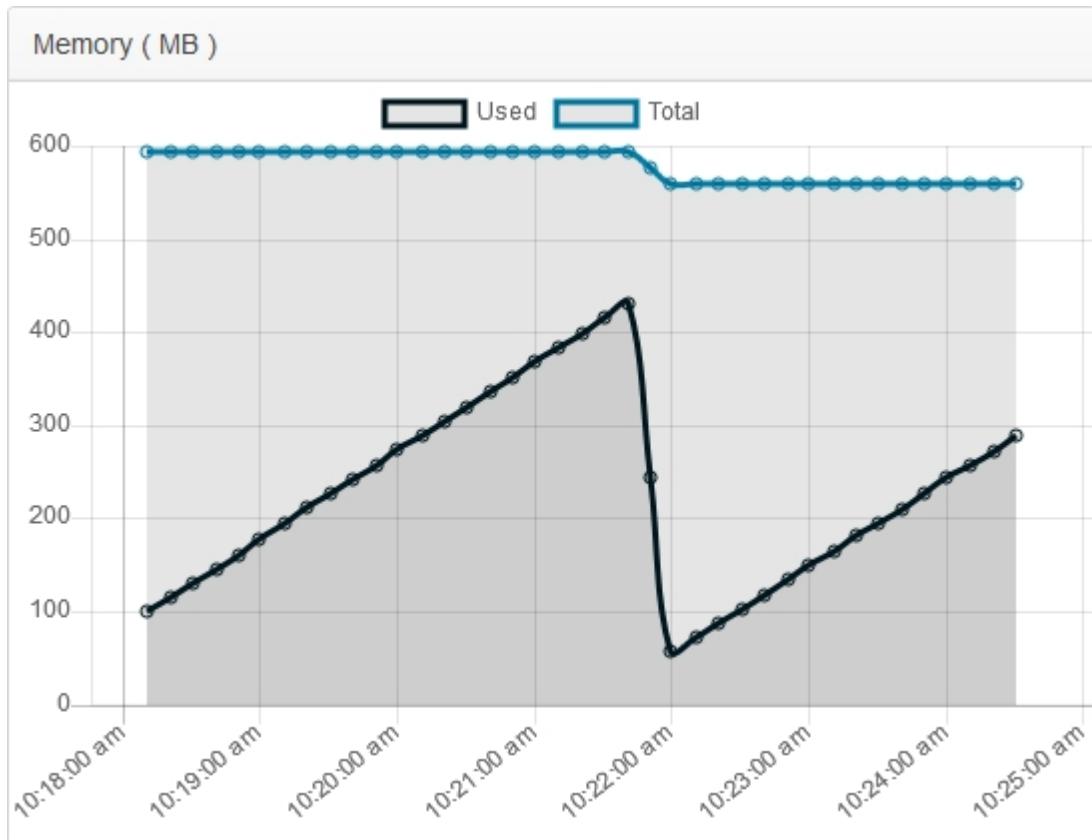
Fail Throughput Of Group. Each Point Show That Sum of Time Inteval Setted From Server.
e.g If You Set Sever Trans Interval 10 Second Than Group Of Transaction is Sum In 10 Second.

4. Cpu



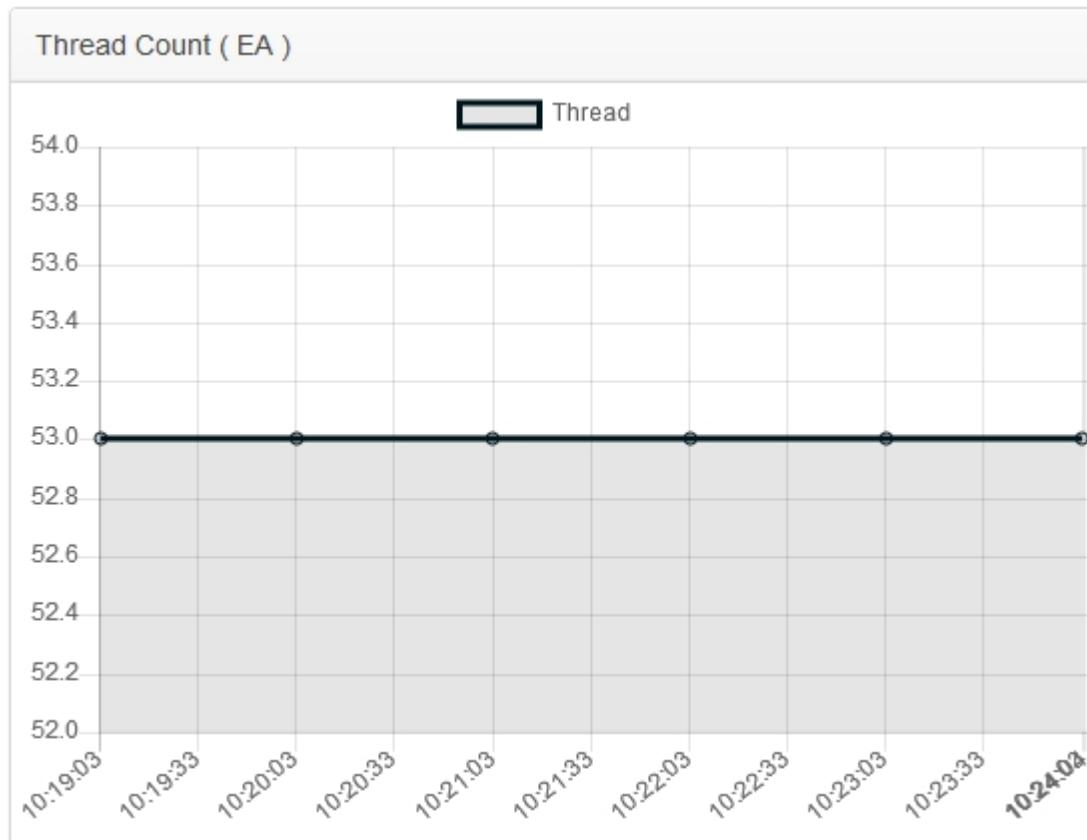
Cpu Usage On Application . Each Point Show That Average of Time Inteval Setted From Server.
e.g If You Set Sever Resource Interval 10 Second Than Group Of Transaction is Average In 10 Second.

5. Memory



Memory Usage On Application . Each Point Show That Average of Time Inteval Setted From Server.
e.g If You Set Sever Resource Interval 10 Second Than Group Of Transaction is Average In 10 Second.
Total Is Max Heap Space Of Java Application.
Used Is Current Usage

6. Thread Count



Thread Count Of Point At Time. This Point Not Sum Or Avarage.
Just Snapshot Point.

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Log

this view Tailing Log of agent(application).

Time	Level	Log
2017-04-06 09:10:20.074	1	[LV:5] [COMM] [Incoming socket size : 127.0.0.1, 1 / 5000] 2337
2017-04-06 09:10:20.078	1	[LV:2] [COMM] FILE PUT TIME (LOCALDISK1306/1/2017040609102000 : 2ms)
2017-04-06 09:10:20.079	1	[LV:5] [DATA] PUT1 FINISH TRANS (M-PC/2017040609102000 : 4ms)
2017-04-06 09:10:20.080	1	[LV:5] [DATA] PUT2 FINISH TRANS (M-PC/2017040609102000 : 5ms)
2017-04-06 09:10:20.088	1	[LV:2] [COMM] FILE GET TIME (LOCALDISK1306/1/2017040609102000 : 0ms)
2017-04-06 09:10:20.089	1	[LV:5] [DATA] GET1 FINISH TRANS (M-PC/2017040609102000 : 7ms)
2017-04-06 09:10:20.090	1	[LV:5] [DATA] GET1 FINISH TRANS (M-PC/2017040609102000 : 7ms)
2017-04-06 09:10:20.095	1	[LV:2] [DATA] DELETE1 FINISH TRANS (M-PC/2017040609102000 : 4ms)
2017-04-06 09:10:20.096	1	[LV:5] [COMM] [Incoming socket removed : 0 / 5000] 2337
2017-04-06 09:10:21.095	1	[LV:5] [COMM] [Incoming socket size : 127.0.0.1, 1 / 5000] 2338

1. Search

The screenshot shows a 'Log Search' interface. It includes fields for 'Search Start Time' (set to 17. 4. 6 08:35:40 AM), 'Search Level' (empty), 'Search End Time' (set to 17. 4. 6 08:35:40 AM), 'Search Text' (empty), and a 'Search' button. There is also an 'Auto Refresh' checkbox which is checked.

Search On Server Log Data Panel. Set Start Time and End Time.

Search Level, Search Text is Not mandatory. It is usage That you filter On Text Or Level. (Case Sensitive)
If You Search Than Tailing Is Off.

See Upper Right Side 'Auto Refresh'

2. Inner Search

The screenshot shows a search interface with a 'Show' dropdown set to '10 entries' and a 'Search:' input field.

Left Side Menu is Set Log Line Size.

Right Side Menu 'Search' is Inner Search Current Log Data.
If You Tailing Than Only Search Word Show Up.

3. Log

Time	Level	Log
2017-04-06 09:10:20.074	1	[LV:5] [COMM] [Incoming socket size : 127.0.0.1, 1 / 5000] 2337
2017-04-06 09:10:20.078	1	[LV:2] [COMM] FILE PUT TIME (LOCALDISK1306/1/2017040609102000 : 2ms)
2017-04-06 09:10:20.079	1	[LV:5] [DATA] PUT1 FINISH TRANS (M-PC/2017040609102000 : 4ms)
2017-04-06 09:10:20.080	1	[LV:5] [DATA] PUT2 FINISH TRANS (M-PC/2017040609102000 : 5ms)
2017-04-06 09:10:20.088	1	[LV:2] [COMM] FILE GET TIME (LOCALDISK1306/1/2017040609102000 : 0ms)
2017-04-06 09:10:20.089	1	[LV:5] [DATA] GET1 FINISH TRANS (M-PC/2017040609102000 : 7ms)
2017-04-06 09:10:20.089	1	[LV:5] [DATA] GET1 FINISH TRANS (M-PC/2017040609102000 : 7ms)
2017-04-06 09:10:20.095	1	[LV:2] [DATA] DELETE1 FINISH TRANS (M-PC/2017040609102000 : 4ms)
2017-04-06 09:10:20.096	1	[LV:5] [COMM] [Incoming socket removed : 0 / 5000] 2337
2017-04-06 09:10:21.095	1	[LV:5] [COMM] [Incoming socket size : 127.0.0.1, 1 / 5000] 2338

Showing 1 to 10 of 90 entries

Previous 1 2 3 4 5 ... 9 Next

Log Data. Time Is Log Maked Time. Level is You Setting On Agent In Trans Handle.

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Thread

This View Showing Current Thread State Detail Infomation

YukMonitoring

The screenshot shows the YukMonitoring application's main interface. On the left, there's a sidebar with a user icon and sections for Common, Collector, and xtomd1. The main area has tabs for Overview, Log, Thread, HotSpot, DB HotSpot, Exception, and Memory. The Thread tab is selected. A search bar at the top allows setting a search time (17. 4. 6 08:35:40 AM) and performing a search. Below the search bar is a section titled 'Locking Thread'. The main content area contains two tables: 'Thread' and 'StackTrace'. The 'Thread' table lists threads with columns for Icon, State, and Name. The 'StackTrace' table shows the stack trace for the selected thread, which is highlighted in blue. The stack trace for 'DBKernel-Thread-10' is as follows:

```
sun.misc.Unsafe.park(Native Method)
java.util.concurrent.locks.LockSupport.park(LockSupport.java:156)
java.util.concurrent.SynchronousQueue$TransferStack.awaitIfFull(SynchronousQueue.java:422)
java.util.concurrent.SynchronousQueue.take(SynchronousQueue.java:323)
java.util.concurrent.SynchronousQueue$Worker.run(SynchronousQueue.java:857)
java.util.concurrent.ThreadPoolExecutor.getTask(ThreadPoolExecutor.java:957)
java.util.concurrent.ThreadPoolExecutor$Worker.run(ThreadPoolExecutor.java:917)
java.lang.Thread.run(Thread.java:662)
```

1. Search

This screenshot shows the 'Thread Search' interface. It features a search bar with a date range set to '17. 4. 6 08:35:40 AM' and a 'Search' button. There are also 'Auto Refresh' and 'ON' buttons.

If You Want Certain Time Thread Dump Than Set Time and Search.

Yuk Server Send Near Time of Data.

Thread Dump Refresh When AUto Refresh is On.

But You Click Search Button , Auto Refresh Off.

2. Locking Thread

This screenshot shows the 'Locking Thread' interface, which is currently empty.

Locked Thread Name List In Current Thread Dump

3. Thread List

Thread

icon	State	Name
●	TIMED_WAITING	PhysicalVolumeManager
●	TIMED_WAITING	dbHot
●	TIMED_WAITING	Excpt
●	WAITING	AgentDeferred_CONTROL
●	TIMED_WAITING	DecomCleaner
●	RUNNABLE	nioEventLoopGroup-2-3
●	WAITING	DBKernal-Thread-10
●	TIMED_WAITING	Dis
●	TIMED_WAITING	_jprofiler_control_sampler
●	WAITING	AgentDeferred_MAIN3
●	WAITING	AgentDeferred_MAIN2
●	TIMED_WAITING	Transchecker
●	WAITING	DBKernal-Thread-9

Current Thread List(Only Live) and State.

4. StackTrace

StackTrace

```

sun.misc.Unsafe.park(Native Method)
java.util.concurrent.locks.LockSupport.park(LockSupport.java:156)
java.util.concurrent.SynchronousQueue$TransferStack.awaitFulfill(SynchronousQueue.java:422)
java.util.concurrent.SynchronousQueue$TransferStack.transfer(SynchronousQueue.java:323)
java.util.concurrent.SynchronousQueue.take(SynchronousQueue.java:857)
java.util.concurrent.ThreadPoolExecutor.getTask(ThreadPoolExecutor.java:957)
java.util.concurrent.ThreadPoolExecutor$Worker.run(ThreadPoolExecutor.java:917)
java.lang.Thread.run(Thread.java:662)

```

If You Click One Of Thread List Than Will Show Up Current Stack Trace.

Method Spot

This View summarise Method Call Statistic.
It is a cumulative below You Open Browser.

The screenshot shows a web-based monitoring application titled "YUK MONITORING". On the left, there's a sidebar with a user profile icon and a dropdown menu labeled "Yuk". Below the sidebar, there are several navigation links: "Common", "Dashboard", "Statistical", "Event", "COLL", "Collector", and "xtorm01". The main content area is titled "HotSpot" and displays a table of method call statistics. The columns in the table are "name", "excution", "totalTime", and "average". A dropdown menu at the top right of the table allows filtering by "Show all". The table lists numerous methods from the "com.windfire" package, such as "private synchronized void com.windfire.agents.data.sql.TransactSql.SessionTimeout.pause()", "private synchronized void com.windfire.util.Timer.pause()", and "private synchronized void com.windfire.agents.archive.asysAgentArMedia.procThread.waitTrans()". The execution times range from 1,531 to 26,029, and the total times range from 1,174 to 1,570,199.

1. Filter

query	excution	totalTime	average
Show all	Show all	Show all	Show all

If You Want Filtering Function Name Or excution Limit, Total Time, Average Than Set Filter.
Only We Show Your Filter.

2. Data

private synchronized void com.windfire.agents.data.sql.TransactSql.SessionTimeout.pause()	1,570	1,570,199	157,019
private synchronized void com.windfire.util.Timer.pause()	1,570	1,570,187	157,018
private synchronized void com.windfire.agents.archive.asysAgentArMedia.procThread.waitTrans()	6,125	1,557,000	39,827
private synchronized com.windfire.base.asysTransact.com.windfire.agents.asysAgent.deferredProcess.getMsg()	26,029	4,702,191	28,281
public void com.windfire.comm.asysSockSrvr.DataListener.run()	1,531	34,185	3,444
public static boolean com.windfire.comm.asysSockBaseFiles.readFile(java.io.InputStream, com.windfire.base.asysParmFile, boolean, java.lang.StringBuffer, com.windfire.comm.asysTransact)	1,532	5,909	531
protected void com.windfire.agents.archive.asysAgentArMediaFilesys.handleDelete(com.windfire.base.asysTransact, boolean)	1,531	5,205	469
protected void com.windfire.agents.archive.asysAgentArMediaFilesys.handleGet(com.windfire.base.asysTransact, boolean)	1,531	4,720	413
private void com.windfire.agents.archive.asysAgentArMediaFilesys.setReadedFile(com.windfire.base.asysParmFile, java.lang.String, long, long)	1,531	4,578	397
private synchronized void com.windfire.comm.asysSockSrvr.DataListener.waitForResponse(com.windfire.base.asysTransact)	12,249	22,455	183
public static boolean com.windfire.agents.data.asys.nativeSql.insertContentElement(java.sql.Connection, java.lang.String, java.lang.String, java.lang.String, long, long, int, java.lang.StringBuffer)	1,530	1,696	106
private void com.windfire.agents.data.asys.nativeCmdUsrContent.uploadSingleComplete(com.windfire.base.asysTransState, com.windfire.agents.data.asys.nativeTrans)	3,061	3,110	61
protected synchronized void com.windfire.agents.archive.asysAgentArMediaFilesys.handlePreparePut(com.windfire.base.asysTransact, boolean)	1,532	723	39
public com.windfire.base.asysTransact.com.windfire.comm.asysSockBase.receive(java.io.ByteArrayOutputStream, com.windfire.api.asysSnifferListenerIF)	27,560	19,367	23
private void com.windfire.agents.data.asys.nativeCmdUsrContent.deleteSingleComplete(com.windfire.base.asysTransState, com.windfire.agents.data.asys.nativeTrans)	1,531	1,174	20
public int com.windfire.agents.data.asysadmin.asysVolume.recoverSpace(java.lang.Object, java.lang.String, int, long, int, int, boolean, boolean, java.lang.StringBuffer)	1,531	1,065	16
public int com.windfire.agents.data.asysadmin.asysVolume.commitSpaceChange(java.lang.Object, java.lang.String, int, long, long, int, boolean, boolean, java.lang.StringBuffer, long)	1,530	1,149	15
public static boolean com.windfire.agents.data.asys.nativeSql.updateContentElementAccess(java.sql.Connection, java.lang.String, java.lang.String, long, boolean, java.lang.String, java.lang.String, int)	1,531	762	12
private void com.windfire.agents.data.asys.nativeCmdUsrCompound.compoundDispatch(com.windfire.base.asysTransState, com.windfire.agents.data.asys.nativeTrans)	26,022	20,191	12
public void com.windfire.agents.data.asys.nativeCmdUsrContent.handleCompoundTrans(com.windfire.base.asysTransState, com.windfire.agents.data.asys.nativeTrans)	15,309	7,009	6
public void com.windfire.agents.data.asys.nativeCmdUsrCompound.handleTrans(com.windfire.base.asysTransState, com.windfire.base.asysParmHashtable)	21,432	12,179	6

All Function Call Data.

Database Spot

Show DataBase Query Use From Application using JDBC Call Statistic
It is a cumulative below You Open Browser.

The screenshot shows the YukMonitoring application interface. On the left, there's a sidebar with navigation links like Common, DashBoard, Statistical, Event, COLL, Collector, and xtorm01. The main area has tabs for Overview, Log, Thread, HotSpot (which is selected), DB HotSpot (highlighted in blue), Exception, and Memory. The DB HotSpot tab displays a table of database queries with columns for query, excution, totalTime, and average. The table includes rows for various SQL statements such as sp_asysAddContentElement, sp_asysUpdContentElementAccess, delete from PROCESS_MAIN, update asysVolume, call sp_asysGetVersionElement, and delete from RECYCLEBIN_TBL. At the bottom right of the interface, there's a status bar showing '2017-10-04 06'.

query	excution	totalTime	average
{call sp_asysAddContentElement (?, ?, ?, ?, ?, ?, ?, ?, ?, ?, ?, ?)}	1,551	1,662	105
{call sp_asysUpdContentElementAccess (?, ?, ?)}	1,548	701	9
delete from PROCESS_MAIN where ElementId=? or ElementId=?	1,549	210	0
update asysVolume set SpaceLeft=?,Status=? where VolumId=?	3,100	546	0
{call sp_asysGetVersionElement (?, ?, ?)}	1,548	444	0
delete from RECYCLEBIN_TBL where ElementId=? or ElementId=?	1,549	192	0
select count(*) from asysStaticContainer where ElementId = (select max(ElementId) from asysStaticContainer where ContentId=?)	1,549	245	0
delete from DOC where ElementId=? or ElementId=?	1,549	196	0
delete from XXV06 where ElementId=? or ElementId=?	1,549	214	0
{call sp_asysGetElementRecord (?, ?, ?)}	1,549	279	0
{call sp_asysDelElement (?, ?, ?)}	1,549	729	0
{call sp_asysAddElement (?, ?, ?, ?)}	1,551	274	0
{call sp_asysGetElementArchives (?, ?, ?)}	4,647	990	0

1. Filter

query	excution	totalTime	average
Show all	Show all	Show all	Show all

If You Want Filtering Query Or excution Limit, Total Time, Average Than Set Filter.
Only We Show Your Filter.

2. Data

{call sp_asysAddContentElement (?, ?, ?, ?, ?, ?, ?, ?, ?, ?, ?, ?)}	1,551	1,662	105
{call sp_asysUpdContentElementAccess (?, ?, ?)}	1,548	701	9
delete from PROCESS_MAIN where ElementId=? or ElementId=?	1,549	210	0
update asysVolume set SpaceLeft=?,Status=? where VolumId=?	3,100	546	0
{call sp_asysGetVersionElement (?, ?, ?)}	1,548	444	0
delete from RECYCLEBIN_TBL where ElementId=? or ElementId=?	1,549	192	0

All Query From Application Call.

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Exception

Show All of Exception That Application Has (Maybe You already Handle)

The screenshot shows the YukMonitoring application's main dashboard. On the left, there is a sidebar with navigation links: Common, Dashboard, Statistical, Event, Collector, and xtorm01. The main area has tabs for Overview, Log, Thread, HotSpot, DB HotSpot, Exception, and Memory. The Exception tab is selected, displaying a table of errors:

Name	Invocation
java.io.EOFException	1
java.io.FileNotFoundException	1
org.xml.sax.SAXParseException	1

Below the table is a "Time To Maked" dropdown set to "2017-04-06 10:25:09.573". To the right is a "Code Viewer" window showing Java code from the file `com.windfire.util.asys.Password.java`:

```

package com.windfire.util;
import com.sun.crypto.provider.SunJCE;
import java.io.DataInputStream;
import java.io.DataOutputStream;
import java.io.IOException;
import java.io.InputStream;
import java.io.OutputStream;
import java.io.File;
import java.io.FileInputStream;
import java.io.FileOutputStream;
import java.io.IOException;
import java.util.Properties;
import java.util.RandomAccessFile;
import java.security.Provider;
import java.util.Enumeration;
import java.util.HashMap;
import javax.crypto.Cipher;
import javax.crypto.SecretKey;
import javax.crypto.spec.SecretKeySpec;
public class asysPassword {
    public static final int RCODE_OK = 0;
    public static final int RCODE_FILE_NOT_FOUND = 100;
    public static final int RCODE_INVALID_PASSWORD = 101;
    public static final int RCODE_WRITE_ERROR = 102;
    public static final int RCODE_RENAME_ERROR = 103;
    public static final int RCODE_PERMISSION_DENIED = 104;
    public static final int RCODE_SPECIFIED_ID_IS_SPECIFIED = 105;
    public static final int RCODE_INVALID_USERID_PASSWORD = 105;
    private static final String[] hexDigits = { "0", "1", "2", "3", "4", "5", "6", "7", "8", "9", "A", "B", "C", "D", "E", "F" };
    private String m_szPasswordFile;
    private String m_szUserId;
    private String m_szEncrypted;
    private int m_ErrorCode;
    private Provider sunJce;
    private Cipher decCipher;
    private Cipher encCipher;
    private int m_iStatus;
    private Map<String, String> m_map;
    private Hashtable m_list;
    private Hashtable m_mapList;
    private static final String cipherName = "AES/CBC/PKCS5Padding";
    private boolean m_bInited = false;
    private static Provider sunJce;
    private static Cipher decCipher;
    private static Cipher encCipher;
    private int m_iStatus;
    public asysPassword()
    {
        String szEmptyStr = "";
        if (this.m_list == null)
        {
            m_list = new Hashtable();
        }
    }
}

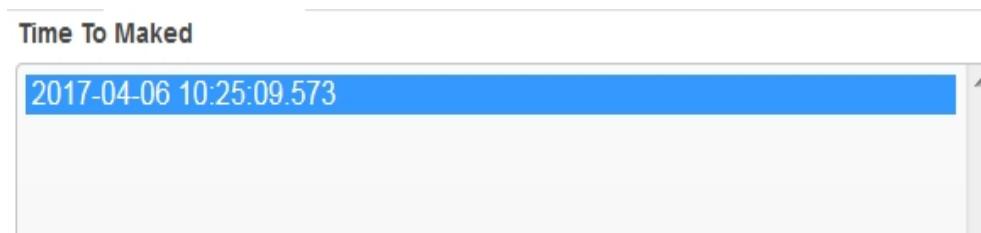
```

1. Error Type

Name	Invocation
java.io.EOFException	1
java.io.FileNotFoundException	1
org.xml.sax.SAXParseException	1

All of Error(Exception) That Your Application While Running.
Invocation is Sum of Exception has been Occured.

2. Occur Time



If You Click One of Error Type Than We Show
'Error Occur Time List' has Show Up.

3. Stack Trace

Stack Trace

```
java.io.DataInputStream.readByte(DataInputStream.java:250)
com.windfire.util.asysPassword.populatePasswordList_aroundBody32(asysPa
com.windfire.util.asysPassword$AjcClosure33.run(asysPassword.java:1)
agent.EngineAspectCus.ajc$around$agent_EngineAspectCus$6$591e245pro
agent.EngineAspectCus.ajc$around$agent_EngineAspectCus$6$591e245(Er
com.windfire.util.asysPassword.populatePasswordList(asysPassword.java:39)
com.windfire.util.asysPassword.checkPasswordFile_aroundBody24(asysPass
com.windfire.util.asysPassword$AjcClosure25.run(asysPassword.java:1)
com.windfire.util.asysPassword.checkPasswordFile(asysPassword.java:297)
com.windfire.util.asysPassword.validate_aroundBody10(asysPassword.java:1
com.windfire.util.asysPassword$AjcClosure11.run(asysPassword.java:1)
com.windfire.util.asysPassword.validate(asysPassword.java:149)
com.windfire.agents.data.asys.nativeAuthSecurity.authorizeUser_aroundBody
com.windfire.agents.data.asys.nativeAuthSecurity$AjcClosure3.run(nativeAutl
com.windfire.agents.data.asys.nativeAuthSecurity.authorizeUser(nativeAuthSe
com.windfire.agents.data.asys.nativeAuthSecurity.authorizeTrans_aroundBody
com.windfire.agents.data.asys.nativeAuthSecurity$AjcClosure1.run(nativeAutl
com.windfire.agents.data.asys.nativeAuthSecurity.authorizeTrans(nativeAuthS
com.windfire.agents.data.asys.nativeAuth.authorizeTrans_aroundBody6(nativ
com.windfire.agents.data.asvs.nativeAuth$AicClosure7.run(nativeAuth.java:1) ▾
```

You Click One Of Error Time Than Stack Trace Will Show Up.

Same as '4.Event Code Viewer' .

4. Event Code Viewer

Code Viewer

```

1 package com.windfire.util;
2
3 import com.sun.crypto.provider.SunJCE;
4 import java.io.DataInputStream;
5 import java.io.DataOutputStream;
6 import java.io.EOFException;
7 import java.io.File;
8 import java.io.FileInputStream;
9 import java.io.FileNotFoundException;
10 import java.io.FileOutputStream;
11 import java.io.IOException;
12 import java.io.InputStream;
13 import java.io.RandomAccessFile;
14 import java.security.Provider;
15 import java.security.Security;
16 import java.util.Enumeration;
17 import java.util.Hashtable;
18 import javax.crypto.Cipher;
19 import javax.crypto.SecretKey;
20 import javax.crypto.spec.SecretKeySpec;
21
22 public class asysPassword
23 {
24     public static final int RCODE_OK = 0;
25     public static final int RCODE_FILE_NOT_FOUND = 100;
26     public static final int RCODE_READ_ERROR = 101;
27     public static final int RCODE_WRITE_ERROR = 102;
28     public static final int RCODE_RENAME_ERROR = 103;
29     public static final int RCODE_PASSWORD_FILE_NOT_SPECIFIED = 104;
30     public static final int RCODE_INVALID_USERID_PASSWORD = 105;
31     public static final int RCODE_ENCRYPT_ERROR = 107;
32     private byte[] desKeyData = { 87, 73, 78, 68, 70, 73, 82, 69 };
33     private String m_szPasswordFile;

```

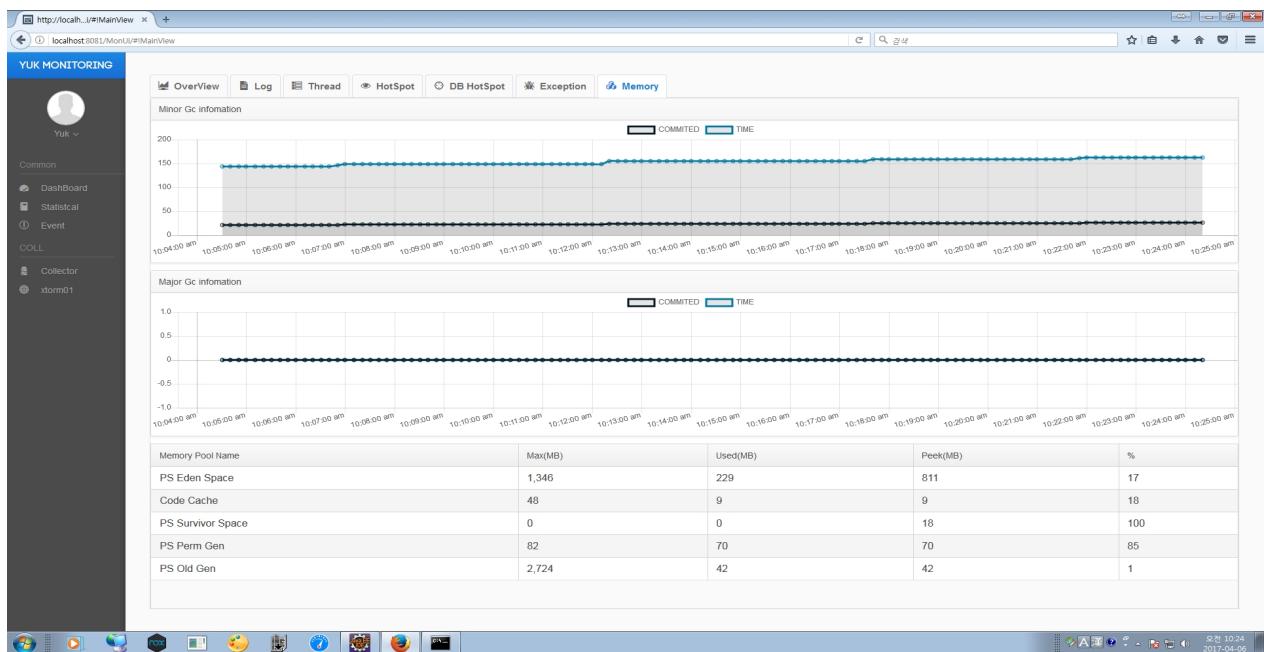
RunTime Code Viewer. This Show Up One Of '2. Occur Time' Was Clicked.
When We Fail Get Code Than This View change Empty Window.

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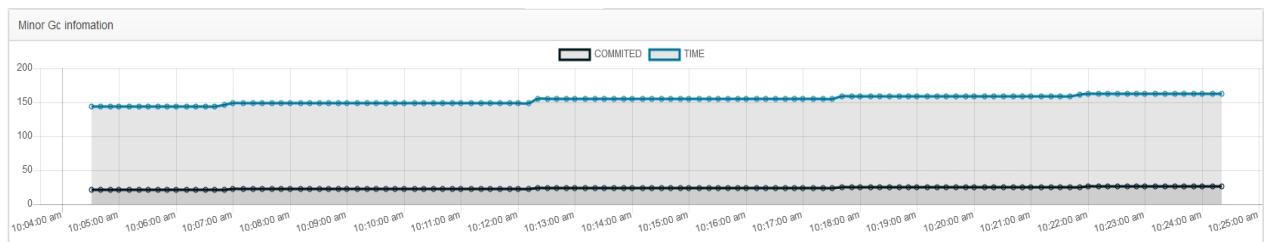
Memory Pool

Show Java Memory Pool Infomation.

YukMonitoring



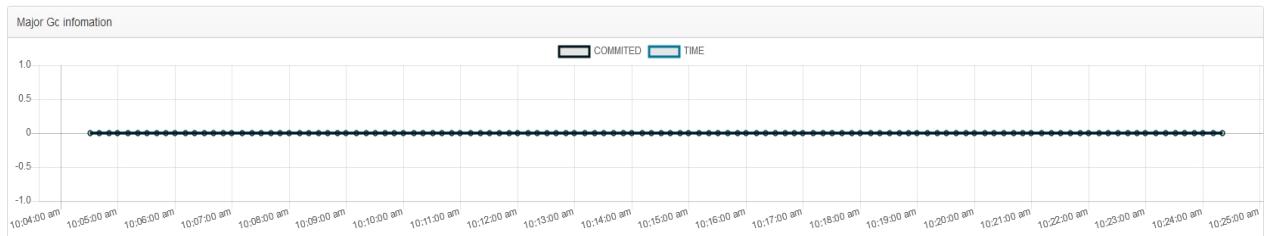
1. Minor Gc Infomation



Minor Gc Infomation.

Committed Mean Committed Object Count.
Time Mean Object Gcd Time (Unit is Ms)

2. Major Gc Infomation



Major Gc Infomation.

Committed Mean Committed Object Count.
Time Mean Object Gcd Time (Unit is Ms)

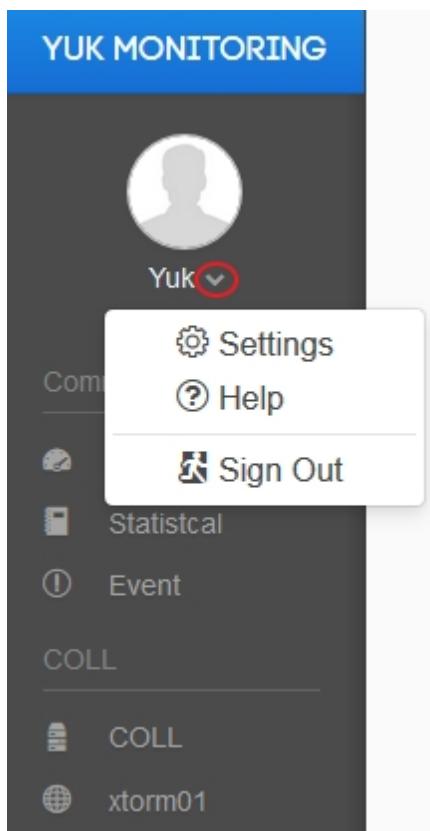
3. Memory Pool

Memory Pool Name	Max(MB)	Used(MB)	Peak(MB)	%
PS Eden Space	1,346	229	811	17
Code Cache	48	9	9	18
PS Survivor Space	0	0	18	100
PS Perm Gen	82	70	70	85
PS Old Gen	2,724	42	42	1

Java Memory Pool List.
Max mean Maximum Of Heap Space.
Used mean Current Usage.
Peek mean Peek Usage Memory Pool.

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Other



see below

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Setting

Setting

	Key	Value
Server		
SERVER		
Collector		
COLL		
Agent		
xtorm01		
	backIp	
	machineInfo	true
	backPort	0.0
	collectorPort	2107.0
	desc	
	trace	false
	serverPort	2109.0
	Type	COLLECTOR
	collectorIp	127.0.0.1
	serverIp	127.0.0.1
	MyName	COLL

This Dialog See Your Entire Application Configuration.
 Server Mark Your Server Name That Ui Connected.
 Collector Menu Show Connected Collector To Server
 Agent Menu Show Whole Application That Your Want Monitoring.

If You Want Detail Key / Value Information See "SetUp" Category.

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