

Utilisation du PreProcessing Zabbix pour la supervision applicative - JsonPath

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Agenda

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Dashboard global





Description du besoin

Supervision du CoreBanking

01

Evolution du CoreBanking

Migration du CoreBanking vers de l'applicatif T24

03

Consolidation

Consolidation des données de performances de 8 instances applicative

02

Supervision efficace de l'Applicatif

Supervision des différents indicateurs de performances
Données dynamiques

04

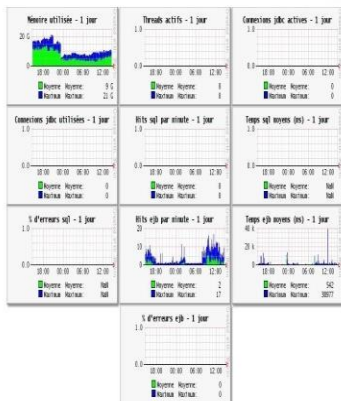
Alerting et Dashboarding

Suivi en temps réel
Suivi de l'évolution des Performances de l'applicatif

Interfaces initiales disponibles aux utilisateurs



Statistiques de monitoring Javamelody mesurées sur TAFJEEMonitoring_T24APP1 (TAFJEEMonitoring.20.7.2)



Statistiques sql - 1 jour

Aucune requête

Statistiques sql - 1 jour

Requête	% du temps cumulé	Hits	Temps moyen (ms)	Temps max (ms)	ErreurType	% du temps qui survient	Temps qui survient (ms)	% d'erreur globale
sql:select	100	2180	770	19252	6463	100	-	0.00
sql:insert	0	0	-1	0	-1	0	-1	0.00
sql:update	0	0	-1	0	-1	0	-1	0.00
sql:delete	0	0	-1	0	-1	0	-1	0.00

4 hit(s) sur 7 requêtes

Statistiques logs d'erreurs systèmes - 1 jour

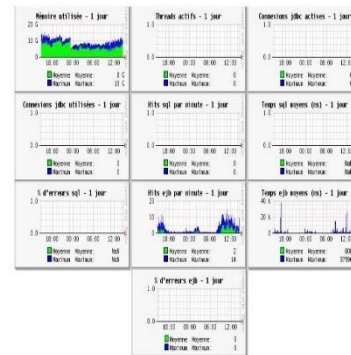
Erreur	Hit(s)
ERREUR: METHOD_NOT_ALLOWED_CROSSREF	0 hit(s) sur 1 erreur

Requêtes en cours

Aucune requête en cours



Statistiques de monitoring Javamelody mesurées sur TAFJEEMonitoring_T24APP2 (TAFJEEMonitoring.20.7.2)



Statistiques sql - 1 jour

Aucune requête

Statistiques sql - 1 jour

Requête	% du temps cumulé	Hits	Temps moyen (ms)	Temps max (ms)	ErreurType	% du temps qui survient	Temps qui survient (ms)	% d'erreur globale
sql:select	100	2194	770	19252	7102	100	0	0.00
sql:insert	0	0	-1	0	-1	0	-1	0.00
sql:update	0	0	-1	0	-1	0	-1	0.00
sql:delete	0	0	-1	0	-1	0	-1	0.00

2 hit(s) sur 4 requêtes

Statistiques logs d'erreurs systèmes - 1 jour

Erreur	Hit(s)
ERREUR: METHOD_NOT_ALLOWED_CROSSREF	0 hit(s) sur 1 erreur

Requêtes en cours

Aucune requête en cours

Format Json

← → ↻ ⓘ Non sécurisé | t24app1:9080/TAFJEEEMonitoring/monitoring?format=json

```
{
  "list": [
    {
      "application": "/TAFJEEEMonitoring_T24APP1",
      "displayed": false,
      "name": "http",
      "errorCounter": false,
      "storageName": "http",
      "iconName": "dbweb.png",
      "childCounterName": "sql",
      "requests": [],
      "rootCurrentContextsByThreadId": [],
      "startDate": "2020-09-02 19:26:15.523 UTC",
      "maxRequestsCount": 10000,
      "estimatedMemorySize": 0
    },
    {
      "application": "/TAFJEEEMonitoring_T24APP1",
      "displayed": true,
      "name": "sql",
      "errorCounter": false,
      "storageName": "sql",
      "iconName": "db.png",
      "requests": [],
      "rootCurrentContextsByThreadId": [],
      "startDate": "2020-09-02 19:25:19.603 UTC",
      "maxRequestsCount": 10000,
      "estimatedMemorySize": 0
    },
    {
      "application": "/TAFJEEEMonitoring_T24APP1",
      "displayed": false,
      "name": "jpa",
      "errorCounter": false,
      "storageName": "jpa",
      "iconName": "db.png",
      "childCounterName": "sql",
      "requests": [],
      "rootCurrentContextsByThreadId": [],
      "startDate": "2020-09-02 19:25:19.606 UTC",
      "maxRequestsCount": 10000,
      "estimatedMemorySize": 0
    },
    {
      "application": "/TAFJEEEMonitoring_T24APP1",
      "displayed": true,
      "name": "ejb",
      "errorCounter": false,
      "storageName": "ejb",
      "iconName": "beans.png",
      "childCounterName": "sql",
      "requests": [
        {
          "CallAtProcessingBean.processRequest: JAVA.FRAMEWORK",
          {
            "name": "CallAtProcessingBean.processRequest: JAVA.FRAMEWORK",
            "id": "ejb6c1575cc6ce3a0a249607caee5eb66b21fe7d5721",
            "hits": 13531,
            "durationsSum": 10266671,
            "durationsSquareSum": 13780297565,
            "maximum": 7606
          }
        }
      ]
    }
  ]
}
```

← → ↻ ⓘ Non sécurisé | t24app2:9081/TAFJEEEMonitoring/monitoring?format=json

```
{
  "list": [
    {
      "application": "/TAFJEEEMonitoring_T24APP2",
      "displayed": false,
      "name": "http",
      "errorCounter": false,
      "storageName": "http",
      "iconName": "dbweb.png",
      "childCounterName": "sql",
      "requests": [],
      "rootCurrentContextsByThreadId": [],
      "startDate": "2020-09-02 19:28:53.113 UTC",
      "maxRequestsCount": 10000,
      "estimatedMemorySize": 0
    },
    {
      "application": "/TAFJEEEMonitoring_T24APP2",
      "displayed": true,
      "name": "sql",
      "errorCounter": false,
      "storageName": "sql",
      "iconName": "db.png",
      "requests": [],
      "rootCurrentContextsByThreadId": [],
      "startDate": "2020-09-02 19:24:55.130 UTC",
      "maxRequestsCount": 10000,
      "estimatedMemorySize": 0
    },
    {
      "application": "/TAFJEEEMonitoring_T24APP2",
      "displayed": false,
      "name": "jpa",
      "errorCounter": false,
      "storageName": "jpa",
      "iconName": "db.png",
      "childCounterName": "sql",
      "requests": [],
      "rootCurrentContextsByThreadId": [],
      "startDate": "2020-09-02 19:24:55.134 UTC",
      "maxRequestsCount": 10000,
      "estimatedMemorySize": 0
    },
    {
      "application": "/TAFJEEEMonitoring_T24APP2",
      "displayed": true,
      "name": "ejb",
      "errorCounter": false,
      "storageName": "ejb",
      "iconName": "beans.png",
      "childCounterName": "sql",
      "requests": [
        {
          "OFSProcessingBean.processMessage: SWAL",
          {
            "name": "OFSProcessingBean.processMessage: SWAL",
            "id": "ejb3afa8a9770571f56f9d78d1522845b4aa79e03a8",
            "hits": 690,
            "durationsSum": 138060,
            "durationsSquareSum": 329217298,
            "maximum": 7520
          }
        }
      ]
    }
  ]
}
```



Monitoring Performances JVM

Performances JVM

Elément maître

Items

All templates / YK Template TAFJEE JVM Applications 13 Items 20 Triggers 2 Graphs 15 Screens Discovery rules Web scenarios 1

Item Preprocessing

Name JVM Performance (Port (\${PORT_TAFJ}))

Type HTTP agent

Key JVM.Perf.1 Select

URL http://(HOST.IP):(\${PORT_TAFJ})/TAFJEEMonitoring/monitoring Parse

Query fields

Name	Value
part	lastvalue
graph	usedBufferedMemory,activeConnector

[Add](#) [Remove](#) [Remove](#)

Request type GET

Timeout 3s

Request body type Raw data JSON data XML data

Request body

Headers

Name	Value
name	value

[Add](#) [Remove](#)

Required status codes 200

Follow redirects

Retrieve mode Body Headers Body and headers

Convert to JSON

HTTP proxy [protocol://[user[:password]@]proxy.example.com[:port]]

HTTP authentication Basic

User name (\${USER_TAFJ})

Password (\${PASSWORD_TAFJ})

SSL verify peer

SSL verify host

SSL certificate file

SSL key file

SSL key password

Type of information Text

Update interval 5m

Custom intervals

Type	Interval	Period	Action
Flexible	Scheduling	50s	1-7,00:00-24:00

[Add](#) [Remove](#)

History storage period Do not keep history Storage period

Performances JVM

Éléments dépendants

<input type="checkbox"/>	...	JVM Performance (Port PORT_TAFJ): Hits SQL par min (Port PORT_TAFJ)	Hits.SQL.min.1	30d	365d	Dependent item	JVM SQL
<input type="checkbox"/>	...	JVM Performance (Port PORT_TAFJ): Transactions par min (Port PORT_TAFJ)	Trans.Rate.1	30d	365d	Dependent item	JVM Transactions
<input type="checkbox"/>	...	JVM Performance (Port PORT_TAFJ): Temps Ramasse Miette (%) (Port PORT_TAFJ)	Tps.Rms.Mt.1	30d	365d	Dependent item	JVM Tps Ramasse Miette
<input type="checkbox"/>	...	JVM Performance (Port PORT_TAFJ): Temps EJB Moyen en ms (Port PORT_TAFJ)	Tps.Ejb.Moy.1	30d	365d	Dependent item	JVM EJB
<input type="checkbox"/>	...	JVM Performance (Port PORT_TAFJ): System Load (Port PORT_TAFJ)	Sys.Load.1	30d	365d	Dependent item	JVM System
<input type="checkbox"/>	...	JVM Performance (Port PORT_TAFJ): Buffered Memory Used (Port PORT_TAFJ)	Buffered.Memory.Used.1	30d	365d	Dependent item	JVM Memory
<input type="checkbox"/>	...	JVM Performance (Port PORT_TAFJ): Used Non Heap Memory (Port PORT_TAFJ)	Used.NonHeap.Memory.1	30d	365d	Dependent item	JVM Memory
<input type="checkbox"/>	...	JVM Performance (Port PORT_TAFJ): JDBC Used Connections (Port PORT_TAFJ)	Jdbc.Used.Cnx.1	30d	365d	Dependent item	JVM JDBC
<input type="checkbox"/>	...	JVM Performance (Port PORT_TAFJ): Tps SQL Moyen en ms (Port PORT_TAFJ)	Get.Sql.Tps.1	30d	365d	Dependent item	JVM SQL
<input type="checkbox"/>	...	JVM Performance (Port PORT_TAFJ): Free Disk Space (Port PORT_TAFJ)	Disk.Free.1	30d	365d	Dependent item	JVM Disques
<input type="checkbox"/>	...	JVM Performance (Port PORT_TAFJ): Erreurs SQL (%) (Port PORT_TAFJ)	Get.Sql.Error.Perct.1	30d	365d	Dependent item	JVM SQL
<input type="checkbox"/>	...	JVM Performance (Port PORT_TAFJ): Nombre de Threads (Port PORT_TAFJ)	Get.Nbr.thrd.1	30d	365d	Dependent item	JVM Threads
<input type="checkbox"/>	...	JVM Performance (Port PORT_TAFJ): Nombre de Classes Chargées (Port PORT_TAFJ)	Get.Nbr.Cls.Load.1	30d	365d	Dependent item	JVM Classes
<input type="checkbox"/>	...	JVM Performance (Port PORT_TAFJ): Memory Used (Port PORT_TAFJ)	Get.Memory.Used.1	30d	365d	Dependent item	JVM Memory
<input type="checkbox"/>	...	JVM Performance (Port PORT_TAFJ): Hits EJB par min (Port PORT_TAFJ)	Get.Ejb.Hits.1	30d	365d	Dependent item	JVM EJB
<input type="checkbox"/>	...	JVM Performance (Port PORT_TAFJ): Threads Actifs (Port PORT_TAFJ)	Get.Cnx.thrd.Act.1	30d	365d	Dependent item	JVM Threads
<input type="checkbox"/>	...	JVM Performance (Port PORT_TAFJ): Connexions JDBC Actives (Port PORT_TAFJ)	Get.Cnx.Jdbc.Act.1	30d	365d	Dependent item	JVM JDBC
<input type="checkbox"/>	...	JVM Performance (Port PORT_TAFJ): Erreurs EJB (%) (Port PORT_TAFJ)	Ejb.Error.1	30d	365d	Dependent item	JVM EJB

Performances JVM

Éléments dépendants

Item Preprocessing

* Name: Hits SQL par min (Port (\$PORT_TAFJ))

Type:

* Key: Hits SQL.min.1

* Master item: YK Template TAFJEE JVM: JVM Performance (Port PORT_TAFJ)

Type of information:

Item Preprocessing

* Name: Temps EJB Moyen en ms (Port (\$PORT_TAFJ))

Type:

* Key: Tps Ejb Moy.1

* Master item: YK Template TAFJEE JVM: JVM Performance (Port PORT_TAFJ)

Type of information:

Item Preprocessing

Preprocessing steps	Name	Parameters	Custom on fail	Actions
1	JavaScript	var R = value.split(',');...	<input type="checkbox"/>	Test Remove

Add [Test all steps](#)

Item Preprocessing

Preprocessing steps	Name	Parameters	Custom on fail	Actions
1	JavaScript	var R = value.split(',');...	<input type="checkbox"/>	Test Remove

Add [Test all steps](#)

```
JavaScript
function (value) {
  1 var R = value.split(',');
  2 return R[6];
}
```

```
JavaScript
function (value) {
  1 var R = value.split(',');
  2 return R[12];
}
```



Monitoring Performances EJB

Performances EJB

Règle de découverte

Discovery rule Preprocessing LLD macros Filters Overrides

* Name

Type

* Key

* Update interval

Type	Interval	Period	Action
<input checked="" type="checkbox"/> Flexible	<input type="text" value="Scheduling"/>	<input type="text" value="50s"/>	<input type="text" value="1-7,00:00-24:00"/>

[Remove](#)

[Add](#)

* Keep lost resources period

Description

Enabled

```
1 #!/bin/bash
2 SERVEUR=$1
3 PORT=$2
4 USER=$3
5 PWD=$4
6 FICHIER_TMP=/tmp/ZABBIX_TAFJEE/javamelody_tafjee_requests_ejb_${SERVEUR}-${PORT}.json
7 curl -s --user $3:$4 "http://$SERVEUR:$PORT/TAFJEEMonitoring/monitoring?format=json&period=jour" | jq '.list[3].requests' > $FICHIER_TMP
8 NB=$(cat $FICHIER_TMP | jq '. | length')
9 NB=$((NB-1))
10 echo '{ "data": [ '
11 i=0
12 while ((i < $NB))
13 do
14 REQ=$(cat $FICHIER_TMP | jq ".[$i][1].name")
15 echo '{ "#INDEX": "'$i'", "#REQ": "$REQ",'
16 {(i+=1)}
17 done
18 REQ=$(cat $FICHIER_TMP | jq ".[$i][1].name")
19 echo '{ "#INDEX": "'$i'", "#REQ": "$REQ"'
20 echo ']' }
```

Discovery rule Preprocessing LLD macros Filters Overrides

Type of calculation A and B and C and D and E and F and G

Label	Macro	Regular expression	Action
A	<input type="text" value="#REQ"/>	<input type="text" value="does not match"/>	<input type="text" value="OFSProcessingBean.processMessage:SWAL"/> Remove
B	<input type="text" value="#REQ"/>	<input type="text" value="does not match"/>	<input type="text" value="OFSProcessingBean.processMessage:IRISINTERNAI"/> Remove
C	<input type="text" value="#REQ"/>	<input type="text" value="does not match"/>	<input type="text" value="OFSProcessingBean.processMessage:GCS"/> Remove
D	<input type="text" value="#REQ"/>	<input type="text" value="does not match"/>	<input type="text" value="OFSProcessingBean.processMessage:BROWSERTC"/> Remove
E	<input type="text" value="#REQ"/>	<input type="text" value="does not match"/>	<input type="text" value="OFSProcessingBean.processMessage:PN.OFS"/> Remove
F	<input type="text" value="#REQ"/>	<input type="text" value="does not match"/>	<input type="text" value="CallAIProcessingBean.processRequest:JAVA.FRAME"/> Remove
G	<input type="text" value="#REQ"/>	<input type="text" value="does not match"/>	<input type="text" value="DebuggerAcceptorBean.getRemoteDebugger:N/A"/> Remove

[Add](#)

Performances EJB

Règle de découverte – Résultat

```
1  [
2  [
3  "CallAtProcessingBean.processRequest:JAVA.FRAMEWORK",
4  {
5  "name": "CallAtProcessingBean.processRequest:JAVA.FRAMEWORK",
6  "id": "ejb6c1575c6ce3a0a249607caee5eb66b21fe7d5721",
7  "hits": 642,
8  "durationsSum": 322824,
9  "durationsSquareSum": 299052902,
10 "maximum": 720,
11 "cpuTimeSum": 9959,
12 "systemErrors": 0,
13 "responseSizesSum": -642,
14 "childHits": 0,
15 "childDurationsSum": 0
16 }
17 ],
18 [
19 "OFSProcessingBean.processMessage:SWAL",
20 {
21 "name": "OFSProcessingBean.processMessage:SWAL",
22 "id": "ejba3fa8a9770571f56f9d78d1522845b4aa79e03a8",
23 "hits": 7,
24 "durationsSum": 694,
25 "durationsSquareSum": 102188,
26 "maximum": 267,
27 "cpuTimeSum": 71,
28 "systemErrors": 0,
29 "responseSizesSum": -7,
30 "childHits": 0,
31 "childDurationsSum": 0,
32 "childRequestsExecutionsByRequestId": [
33 [
34 "ejb76836d2bf2aa51032e4f25a843fd491f142f4b57",
35 1
36 ]
37 ]
38 }
39 ],
40 [
41 "OFSProcessingBean.processRequest:GCS",
42 {
43 "name": "OFSProcessingBean.processRequest:GCS",
44 "id": "ejb085552b2b6b5f0236076e07b70912cc121bald3e",
45 "hits": 525,
46 "durationsSum": 110928,
```

```
1  [
2  [
3  "OFSProcessingBean.processMessage:BROWSERTC",
4  {
5  "name": "OFSProcessingBean.processMessage:BROWSERTC",
6  "id": "ejb575b3f84ee1b3ffc0135cbdl852fcd51fld2ebd4",
7  "hits": 1757,
8  "durationsSum": 4326430,
9  "durationsSquareSum": 1957505026946,
10 "maximum": 376912,
11 "cpuTimeSum": 167520,
12 "systemErrors": 0,
13 "responseSizesSum": -1757,
14 "childHits": 0,
15 "childDurationsSum": 0,
16 "childRequestsExecutionsByRequestId": [
17 [
18 "ejb76836d2bf2aa51032e4f25a843fd491f142f4b57",
19 10
20 ]
21 ]
22 }
23 ],
24 [
25 "OFSProcessingBean.processMessage:IRISINTERNAL",
26 {
27 "name": "OFSProcessingBean.processMessage:IRISINTERNAL",
28 "id": "ejb53f2594e1cbf6c43562d9f0daf3811b40e1ee279",
29 "hits": 282,
30 "durationsSum": 38149,
31 "durationsSquareSum": 5670281,
32 "maximum": 392,
33 "cpuTimeSum": 6655,
34 "systemErrors": 0,
35 "responseSizesSum": -282,
36 "childHits": 0,
37 "childDurationsSum": 0
38 }
39 ],
40 [
41 "DebuggerAcceptorBean.getRemoteDebugger:N/A",
42 {
43 "name": "DebuggerAcceptorBean.getRemoteDebugger:N/A",
44 "id": "ejb76836d2bf2aa51032e4f25a843fd491f142f4b57",
45 "hits": 10,
46 "durationsSum": 5,
```

Performances EJB

Prototype d'élément maître

Item prototype **Preprocessing**

* Name

Type

* Key

Type of information

```
1 #!/bin/bash
2 SERVEUR=$1
3 PORT=$2
4 INDEX=$3
5 FICHER_TMP=/tmp/ZABBIX_TAFJEE/javamelody_tafjee_Requests_EJB_{$SERVEUR-{$PORT}.json
6 REQ=`cat ${FICHER_TMP}`
7 echo $REQ
```

Item prototype **Preprocessing**

Preprocessing steps	Name	Parameters	Custom on fail	Actions
1:	<input data-bbox="585 936 929 969" type="text" value="JSONPath"/>	<input data-bbox="942 936 1508 969" type="text" value="\$.{?(@.name == '#REQ')}"/>	<input data-bbox="1572 936 1591 969" type="checkbox"/>	Test Remove

[Add](#) [Test all steps](#)

Performances EJB

Prototypes d'éléments dépendants

<input type="checkbox"/>	Wizard	Name ▲	Key	Interval	History	Trends	Type
<input type="checkbox"/>	...	EJB Request [{\$SPORT_TAFJ} : {#REQ}] : EJB childDurationsSum Req[{\$SPORT_TAFJ} : {#REQ}]	TAFJEE.EJB.Request.childDurationsSum.Req[{\$SPORT_TAFJ} : {#REQ}]	30d	365d		Dependent item
<input type="checkbox"/>	...	EJB Request [{\$SPORT_TAFJ} : {#REQ}] : EJB childHits Req[{\$SPORT_TAFJ} : {#REQ}]	TAFJEE.EJB.Request.childHits.Req[{\$SPORT_TAFJ} : {#REQ}]	30d	365d		Dependent item
<input type="checkbox"/>	...	EJB Request [{\$SPORT_TAFJ} : {#REQ}] : EJB childRequestsExecutionsByRequestId Req[{\$SPORT_TAFJ} : {#REQ}]	TAFJEE.EJB.Request.childRequestsExecutionsByRequestId.Req[{\$SPORT_TAFJ} : {#REQ}]	3d			Dependent item
<input type="checkbox"/>	...	EJB Request [{\$SPORT_TAFJ} : {#REQ}] : EJB cpuTimeSum Req[{\$SPORT_TAFJ} : {#REQ}]	TAFJEE.EJB.Request.cpuTimeSum.Req[{\$SPORT_TAFJ} : {#REQ}]	30d	365d		Dependent item
<input type="checkbox"/>	...	EJB Request [{\$SPORT_TAFJ} : {#REQ}] : EJB durationsSquareSum Req[{\$SPORT_TAFJ} : {#REQ}]	TAFJEE.EJB.Request.durationsSquareSum.Req[{\$SPORT_TAFJ} : {#REQ}]	30d	365d		Dependent item
<input type="checkbox"/>	...	EJB Request [{\$SPORT_TAFJ} : {#REQ}] : EJB durationsSum Req[{\$SPORT_TAFJ} : {#REQ}]	TAFJEE.EJB.Request.durationsSum.Req[{\$SPORT_TAFJ} : {#REQ}]	30d	365d		Dependent item
<input type="checkbox"/>	...	EJB Request [{\$SPORT_TAFJ} : {#REQ}] : EJB hits Req[{\$SPORT_TAFJ} : {#REQ}]	TAFJEE.EJB.Request.hits.Req[{\$SPORT_TAFJ} : {#REQ}]	30d	365d		Dependent item
<input type="checkbox"/>	...	EJB Request [{\$SPORT_TAFJ} : {#REQ}] : EJB id Req[{\$SPORT_TAFJ} : {#REQ}]	TAFJEE.EJB.Request.id.Req[{\$SPORT_TAFJ} : {#REQ}]	30d			Dependent item
<input type="checkbox"/>	...	EJB Request [{\$SPORT_TAFJ} : {#REQ}] : EJB maximum Req[{\$SPORT_TAFJ} : {#REQ}]	TAFJEE.EJB.Request.maximum.Req[{\$SPORT_TAFJ} : {#REQ}]	30d	365d		Dependent item
<input type="checkbox"/>	...	EJB Request [{\$SPORT_TAFJ} : {#REQ}] : EJB name Req[{\$SPORT_TAFJ} : {#REQ}]	TAFJEE.EJB.Request.name.Req[{\$SPORT_TAFJ} : {#REQ}]	30d			Dependent item
<input type="checkbox"/>	...	EJB Request [{\$SPORT_TAFJ} : {#REQ}] : EJB responseSizesSum Req[{\$SPORT_TAFJ} : {#REQ}]	TAFJEE.EJB.Request.responseSizesSum.Req[{\$SPORT_TAFJ} : {#REQ}]	30d	365d		Dependent item
<input type="checkbox"/>	...	EJB Request [{\$SPORT_TAFJ} : {#REQ}] : EJB systemErrors Req[{\$SPORT_TAFJ} : {#REQ}]	TAFJEE.EJB.Request.systemErrors.Req[{\$SPORT_TAFJ} : {#REQ}]	30d	365d		Dependent item

Performances EJB

Prototypes d'éléments dépendants

Item prototype Preprocessing

* Name

Type

* Key

* Master item

Type of information

Item prototype Preprocessing

* Name

Type

* Key

* Master item

Type of information

Item prototype Preprocessing

Preprocessing steps	Name	Parameters	Custom on fail	Actions
1:	<input type="text" value="JSONPath"/>	<input type="text" value="\$.[?(@.name == '{#REQ}')].hits"/>	<input type="checkbox"/>	Test Remove
2:	<input type="text" value="Trim"/>	<input type="text" value="[]"/>	<input type="checkbox"/>	Test Remove

[Add](#) [Test all steps](#)

Item prototype Preprocessing

Preprocessing steps	Name	Parameters	Custom on fail	Actions
1:	<input type="text" value="JSONPath"/>	<input type="text" value="\$.[?(@.name == '{#REQ}')].durationsSum"/>	<input type="checkbox"/>	Test Remove
2:	<input type="text" value="Trim"/>	<input type="text" value="[]"/>	<input type="checkbox"/>	Test Remove

[Add](#) [Test all steps](#)



Monitoring Performances SQL

Performances SQL

Règle de découverte

Discovery rule Preprocessing LLD macros Filters Overrides

Name TAFJEE SQL Requests Statistics Discovery [{\$PORT_TAFJ}]

Type External check

Key TAFJEE_SQL_Requests_Statistics_Discovery.sh["{HOST.IP}","{PORT_TAFJ}","{

Update interval 1h

Type	Interval	Period	Action
Flexible	Scheduling	50s	1-7,00:00-24:00

Add

Keep lost resources period 1d

Description

Enabled

Update Clone Test Delete Cancel

```
1 #!/bin/bash
2 SERVEUR=$1
3 PORT=$2
4 USER=$3
5 PWD=$4
6 FICHIER_TMP=/tmp/ZABBIX_TAFJEE/javamelody_tafjee_Requests_SQL_${SERVEUR}-${PORT}.json
7 curl -s --user $3:$4 "http://$SERVEUR:$PORT/TAFJEEMonitoring/monitoring?format=json&period=jour" | jq '[.list[1].requests[] | select(.[1].maximum >= 10000)]' > ${FICHIER_TMP}
8 NB=`cat ${FICHIER_TMP} | jq '. | length'`
9 NB=$((NB-1))
10 echo '{ "data": [ '
11 i=0
12 while ((i < $NB))
13 do
14   REQID=`cat ${FICHIER_TMP} | jq ".[${i}][1].id"`
15   echo '{ "#INDEX": "${i}", "#REQID": "${REQID}", '
16     ((i+=1))
17 done
18 REQID=`cat ${FICHIER_TMP} | jq ".[${i}][1].id"`
19 echo '{ "#INDEX": "${i}", "#REQID": "${REQID}" '
20 echo ']' }
```

Performances SQL

Prototype d'élément maître

Item prototype Preprocessing

* Name

Type

* Key

Type of information

* Update interval

```
1 #!/bin/bash
2 SERVEUR=$1
3 PORT=$2
4 INDEX=$3
5 FICHIER_TMP=/tmp/ZABBIX_TAFJEE/javamelody_tafjee_Requests_SQL_${SERVEUR}-${PORT}.json
6 REQ=`cat ${FICHIER_TMP}`
7 echo $REQ
```

Item prototype Preprocessing

Preprocessing steps	Name	Parameters	Custom on fail	Actions
1:	<input type="text" value="JSONPath"/>	<input type="text" value="{#{#INDEX}}"/>	<input type="checkbox"/>	Test Remove

[Add](#) [Test all steps](#)

Performances SQL

Prototypes d'éléments dépendants

Wizard	Name ▲	Key	Interval	History	Trends	Type
<input type="checkbox"/>	... SQL Request [({SPORT_TAFJ} : {#INDEX}) : SQL childDurationsSum Req[({SPORT_TAFJ} : {#INDEX})]	TAFJEE SQL Request.childDurationsSum Req[({SPORT_TAFJ} : {#INDEX})]		3d	365d	Dependent item
<input type="checkbox"/>	... SQL Request [({SPORT_TAFJ} : {#INDEX}) : SQL childHits Req[({SPORT_TAFJ} : {#INDEX})]	TAFJEE SQL Request.childHits Req[({SPORT_TAFJ} : {#INDEX})]		3d	365d	Dependent item
<input type="checkbox"/>	... SQL Request [({SPORT_TAFJ} : {#INDEX}) : SQL cpuTimeSum Req[({SPORT_TAFJ} : {#INDEX})]	TAFJEE SQL Request.cpuTimeSum Req[({SPORT_TAFJ} : {#INDEX})]		3d	365d	Dependent item
<input type="checkbox"/>	... SQL Request [({SPORT_TAFJ} : {#INDEX}) : SQL durationsSquareSum Req[({SPORT_TAFJ} : {#INDEX})]	TAFJEE SQL Request.durationsSquareSum Req[({SPORT_TAFJ} : {#INDEX})]		3d	365d	Dependent item
<input type="checkbox"/>	... SQL Request [({SPORT_TAFJ} : {#INDEX}) : SQL durationsSum Req[({SPORT_TAFJ} : {#INDEX})]	TAFJEE SQL Request.durationsSum Req[({SPORT_TAFJ} : {#INDEX})]		3d	365d	Dependent item
<input type="checkbox"/>	... SQL Request [({SPORT_TAFJ} : {#INDEX}) : SQL hits Req[({SPORT_TAFJ} : {#INDEX})]	TAFJEE SQL Request.hits Req[({SPORT_TAFJ} : {#INDEX})]		3d	365d	Dependent item
<input type="checkbox"/>	... SQL Request [({SPORT_TAFJ} : {#INDEX}) : SQL id Req[({SPORT_TAFJ} : {#INDEX})]	TAFJEE SQL Request.id Req[({SPORT_TAFJ} : {#INDEX})]		3d		Dependent item
<input type="checkbox"/>	... SQL Request [({SPORT_TAFJ} : {#INDEX}) : SQL maximum Req[({SPORT_TAFJ} : {#INDEX})]	TAFJEE SQL Request.maximum Req[({SPORT_TAFJ} : {#INDEX})]		3d	365d	Dependent item
<input type="checkbox"/>	... SQL Request [({SPORT_TAFJ} : {#INDEX}) : SQL name Req [({SPORT_TAFJ} : {#INDEX} : {#REQID})]	TAFJEE SQL Request.name Req[({SPORT_TAFJ} : {#INDEX} : {#REQID})]		3d		Dependent item
<input type="checkbox"/>	... SQL Request [({SPORT_TAFJ} : {#INDEX}) : SQL responseSizesSum Req[({SPORT_TAFJ} : {#INDEX})]	TAFJEE SQL Request.responseSizesSum Req[({SPORT_TAFJ} : {#INDEX})]		3d	365d	Dependent item
<input type="checkbox"/>	... SQL Request [({SPORT_TAFJ} : {#INDEX}) : SQL systemErrors Req[({SPORT_TAFJ} : {#INDEX})]	TAFJEE SQL Request.systemErrors Req[({SPORT_TAFJ} : {#INDEX})]		3d	365d	Dependent item

Performances SQL

Prototypes d'éléments dépendants

Item prototype Preprocessing

* Name

Type

* Key

* Master item

Type of information

Item prototype Preprocessing

* Name

Type

* Key

* Master item

Type of information

Item prototype Preprocessing

Preprocessing steps	Name	Parameters	Custom on fail	Actions
1	JSONPath	<input type="text" value="\$.[1]['maximum']"/>	<input type="checkbox"/>	Test Remove

[Add](#) [Test all steps](#)

Item prototype Preprocessing

Preprocessing steps	Name	Parameters	Custom on fail	Actions
1	JSONPath	<input type="text" value="\$.[1]['systemErrors']"/>	<input type="checkbox"/>	Test Remove

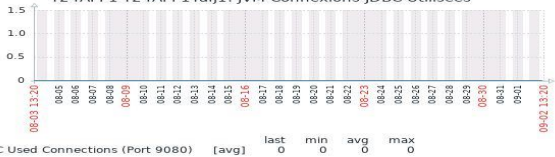
[Add](#) [Test all steps](#)



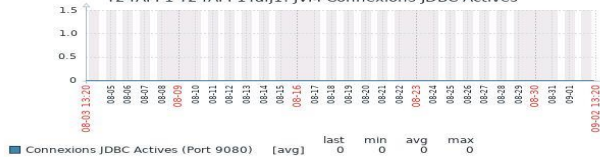
Dashboard global

Ecran Zabbix

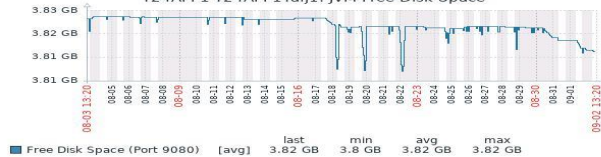
T24APP1-T24APP1Taf1: JVM Connexions JDBC Utilisées



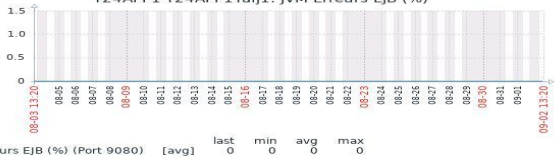
T24APP1-T24APP1Taf1: JVM Connexions JDBC Actives



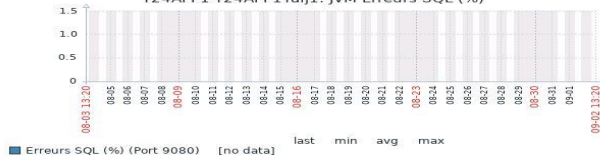
T24APP1-T24APP1Taf1: JVM Free Disk Space



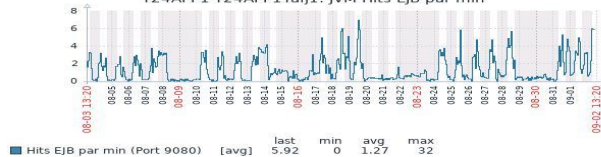
T24APP1-T24APP1Taf1: JVM Erreurs EJB (%)



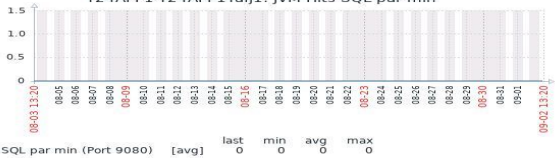
T24APP1-T24APP1Taf1: JVM Erreurs SQL (%)



T24APP1-T24APP1Taf1: JVM Hits EJB par min



T24APP1-T24APP1Taf1: JVM Hits SQL par min



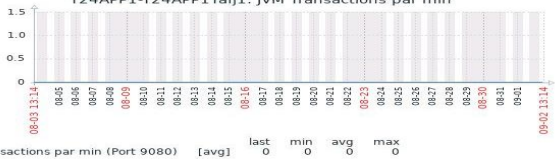
T24APP1-T24APP1Taf1: JVM Nombre de Classes Chargées



T24APP1-T24APP1Taf1: JVM Memory Used



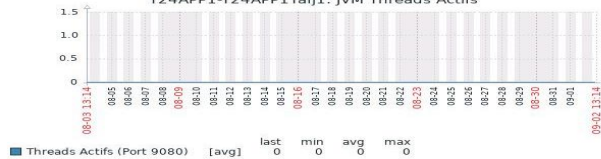
T24APP1-T24APP1Taf1: JVM Transactions par min



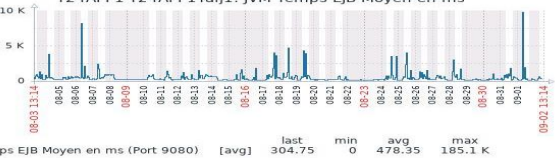
T24APP1-T24APP1Taf1: JVM Nombre de Threads



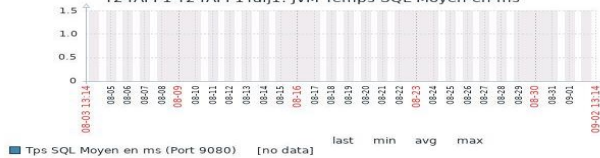
T24APP1-T24APP1Taf1: JVM Threads Actifs



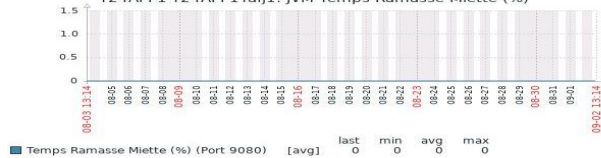
T24APP1-T24APP1Taf1: JVM Temps EJB Moyen en ms



T24APP1-T24APP1Taf1: JVM Temps SQL Moyen en ms



T24APP1-T24APP1Taf1: JVM Temps Ramasse Miette (%)





**Merci pour
votre attention**