

# The creation of efficient monitoring templates and dashboards

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Integration Engineer

**ZABBIX** '23

CONFERENCE

GERMANY



**TEMPLATES**

```

zabbix_export:
  version: '6.4'
  template_groups:
    - uuid: 748ad4d098d447d492bb935c907f652f
      name: Templates/Databases
  templates:
    - uuid: 00ade9277d7c41e8b57d638b22d54372
      template: 'Oracle by ODBC'
      name: 'Oracle by ODBC'
      description: |
        1. Create an Oracle user for monitoring.

        2. Set the user name and password in host macros ({$ORACLE.USER} and {$ORACLE.PASSWORD}).
        Do not forget to install the Microsoft ODBC driver on the Zabbix server or the Zabbix proxy.
        See Oracle documentation for instructions: https://www.oracle.com/database/technologies/releasenote-odbc-1c.html.

        Note! Credentials in the odbc.ini do not work for Oracle.
        Note! Be sure that ODBC connects to Oracle with session parameter NLS_NUMERIC_CHARACTERS= ','.' It is important for correct display
        float numbers in Zabbix.
        The "Service's TCP port state" item uses {HOST.CONN} and {$ORACLE.PORT} macros to check the availability of the listener.

      Generated by official Zabbix template tool "Templator"
      vendor:
        name: Zabbix
        version: 6.4-0
      groups:
        - name: Templates/Databases
      items:
        - uuid: dde19b79507648bd80a82a0575bf8671
          name: 'Oracle: Get instance state'
          type: ODBC
          key: 'db.odbc.get[get_instance_state,,"Driver={$ORACLE.DRIVER};DBQ://{HOST.CONN}:{$ORACLE.PORT}/{$ORACLE.SERVICE};"]'
          history: '0'
          trends: '0'
          value_type: TEXT
          params: |
            SELECT
              INSTANCE_NAME,
              HOST_NAME,
              VERSION || ' - ' || EDITION AS VERSION,
              Floor((SYSDATE - startup_time)/60*60*24) AS UPTIME,
              decode(status,'STARTED',1,'MOUNTED',2,'OPEN',3,'OPEN MIGRATE',4,0) AS STATUS,
              decode(archiver,'STOPPED',1,'STARTED',2,'FAILED',3,0) AS ARCHIVER,
              decode(instance_role,'PRIMARY_INSTANCE',1,'SECONDARY_INSTANCE',2,0) AS INSTANCE_ROLE
            FROM v$instance;
          username: '{$ORACLE.USER}'
          password: '{$ORACLE.PASSWORD}'
          description: 'The item gets its state of the current instance.'
          tags:
            - tag: component
              value: raw
        - uuid: 3839683749974cdea9d9178bdccb38d6
          name: 'Oracle: Get system metrics'
          type: ODBC
          key: 'db.odbc.get[get_system_metrics,,"Driver={$ORACLE.DRIVER};DBQ://{HOST.CONN}:{$ORACLE.PORT}/{$ORACLE.SERVICE};"]'
          delay: 0;m0-59
          history: '0'
          trends: '0'
          value_type: TEXT
          params: |
            SELECT 'SYS:.' || METRIC_NAME AS METRIC, ROUND(VALUE,3) as VALUE
            FROM v$SYSMETRIC WHERE GROUP_ID = 2
            UNION
            SELECT 'SYSPARAM:.' || INITCAP(NAME) AS METRIC, to_number(VALUE)
            FROM v$SYSTEM_PARAMETER WHERE NAME IN ('sessions', 'processes', 'db_files')
            UNION
            SELECT 'SESSION:Long time locked',count(*) FROM v$SESSION s WHERE s.BLOCKING_SESSION IS NOT NULL AND
            s.BLOCKING_SESSION_STATUS='VALID' AND s.SECONDS_IN_WAIT > {$ORACLE.SESSION.LOCK.MAX.TIME}
            UNION
            SELECT 'SESSION:Lock rate', (cnt_block / cnt_all)* 100 pct
            FROM ( SELECT COUNT(*) cnt_block FROM v$session WHERE blocking_session IS NOT NULL), ( SELECT COUNT(*) cnt_all FROM v$session)
            UNION
            SELECT 'SESSION:Long time locked',count(*) FROM v$SESSION s WHERE s.BLOCKING_SESSION IS NOT NULL AND
            s.BLOCKING_SESSION_STATUS='VALID' AND s.SECONDS_IN_WAIT > {$ORACLE.SESSION.LOCK.MAX.TIME}

```

# YAML



## Templates

Template groups

Linked templates

Name

Vendor

Version

Name	Hosts	Items	Triggers	Graphs	Dashboards	Discovery
<input type="checkbox"/> Acronis Cyber Protect Cloud by HTTP	Hosts	Items 1	Triggers	Graphs	Dashboards	Discovery 1
<input type="checkbox"/> Acronis Cyber Protect Cloud MSP by HTTP	Hosts	Items 9	Triggers	Graphs 1	Dashboards 1	Discovery 3
<input type="checkbox"/> AIX by Zabbix agent	Hosts	Items 44	Triggers 10	Graphs 4	Dashboards 1	Discovery 2
<input type="checkbox"/> Alcatel Timetra TIMOS by SNMP	Hosts	Items 19	Triggers 9	Graphs 3	Dashboards 1	Discovery 6
<input type="checkbox"/> Apache ActiveMQ by JMX	Hosts	Items	Triggers	Graphs	Dashboards 1	Discovery 2
<input type="checkbox"/> Apache by HTTP	Hosts	Items 22	Triggers 5	Graphs 3	Dashboards 1	Discovery 1
<input type="checkbox"/> Apache by Zabbix agent	Hosts	Items 23	Triggers 2	Graphs 3	Dashboards 1	Discovery 2
<input type="checkbox"/> Apache Cassandra by JMX	Hosts	Items 67	Triggers 6	Graphs 7	Dashboards 1	Discovery 1
<input type="checkbox"/> Apache Kafka by JMX	Hosts	Items 52	Triggers 11	Graphs 9	Dashboards 1	Discovery 3
<input type="checkbox"/> Apache Tomcat by JMX	Hosts	Items 1	Triggers 1	Graphs	Dashboards 1	Discovery 4
<input type="checkbox"/> APC Smart-UPS 2200 RM by SNMP	Hosts	Items 26	Triggers 22	Graphs 3	Dashboards 1	Discovery 6
<input type="checkbox"/> APC Smart-UPS 3000 XLM by SNMP	Hosts	Items 26	Triggers 22	Graphs 3	Dashboards 1	Discovery 6
<input type="checkbox"/> APC Smart-UPS RT 1000 RM XL by SNMP	Hosts	Items 26	Triggers 22	Graphs 3	Dashboards 1	Discovery 6
<input type="checkbox"/> APC Smart-UPS RT 1000 XL by SNMP	Hosts	Items 26	Triggers 22	Graphs 3	Dashboards 1	Discovery 6
<input type="checkbox"/> APC Smart-UPS SRT 5000 by SNMP	Hosts	Items 26	Triggers 22	Graphs 3	Dashboards 1	Discovery 6
<input type="checkbox"/> APC Smart-UPS SRT 8000 by SNMP	Hosts	Items 26	Triggers 22	Graphs 3	Dashboards 1	Discovery 6
<input type="checkbox"/> APC UPS by SNMP	Hosts	Items 26	Triggers 22	Graphs 3	Dashboards 1	Discovery 6
<input type="checkbox"/> APC UPS Galaxy 3500 by SNMP	Hosts	Items 26	Triggers 22	Graphs 3	Dashboards 1	Discovery 6
<input type="checkbox"/> APC UPS Symmetra LX by SNMP	Hosts	Items 26	Triggers 22	Graphs 3	Dashboards 1	Discovery 6
<input type="checkbox"/> APC UPS Symmetra RM by SNMP	Hosts	Items 26	Triggers 22	Graphs 3	Dashboards 1	Discovery 6
<input type="checkbox"/> APC UPS Symmetra RX by SNMP	Hosts	Items 26	Triggers 22	Graphs 3	Dashboards 1	Discovery 6
<input type="checkbox"/> Arant Cloud	Hosts	Items 2	Triggers	Graphs	Dashboards	Discovery 2
<input type="checkbox"/> Arista by SNMP	Hosts	Items 14	Triggers 7	Graphs 1	Dashboards 1	Discovery 9
<input type="checkbox"/> Asterisk by HTTP	Hosts	Items 26	Triggers 9	Graphs 4	Dashboards	Discovery 4

# UI

```
zabbix_export:
  version: '6.4'
  template_groups:
    - uuid: 748ad4d098d447d492bb935c907f652f
      name: Templates/Databases
  templates:
    - uuid: 00ade9277d7c41e8b57d638b22d54372
      template: 'Oracle by ODBC'
      name: 'Oracle by ODBC'
      description: |
        1. Create an Oracle user for monitoring.

        2. Set the user name and password in host macros ({$ORACLE.USER} and {$ORACLE.PASSWORD}).
        Do not forget to install the Microsoft ODBC driver on the Zabbix server or the Zabbix proxy.
        See Oracle documentation for instructions: https://www.oracle.com/database/technologies/releasenote-odbc-ic.html.

        Note! Credentials in the odbc.ini do not work for Oracle.
        Note! Be sure that ODBC connects to Oracle with session parameter NLS_NUMERIC_CHARACTERS= ','.' It is important for correct display
        float numbers in Zabbix.
        The "Service's TCP port state" item uses {HOST.CONN} and {$ORACLE.PORT} macros to check the availability of the listener.
```

```
Generated by official Zabbix template tool "Templator"
vendor:
  name: Zabbix
  version: 6.4-0
groups:
  - name: Templates/Databases
items:
  - uuid: dde19b79507648bd80a82a0575bf8671
    name: 'Oracle: Get instance state'
    type: ODBC
    key: 'db.odbc.get[get_instance_state,,"Driver={$ORACLE.DRIVER};DBQ://{HOST.CONN}:{$ORACLE.PORT}/{$ORACLE.SERVICE};"]'
    history: '0'
    trends: '0'
    value_type: TEXT
    params: |
      SELECT
        INSTANCE_NAME,
        HOST_NAME,
        VERSION || ' '-' || EDITION AS VERSION,
        floor((SYSDATE - startup_time) * 60 * 60) AS UPTIME,
        decode(status,'STARTED',1,'MOUNTED',2,'OPEN',3,'OPEN+READ ONLY',4) AS STATUS,
        decode(archiver,'STOPPED',1,'STARTED',2,'FAILED',3,0) AS ARCHIVER,
        decode(instance_role,'PRIMARY_INSTANCE',1,'SECONDARY_INSTANCE',2,0) AS INSTANCE_ROLE
      FROM v$instance;
    username: '{$ORACLE.USER}'
    password: '{$ORACLE.PASSWORD}'
    description: 'The item gets its state of the current instance.'
    tags:
      - tag: component
        value: raw
  - uuid: 3839683749974cdea9d9178bdccb38d6
    name: 'Oracle: Get system metrics'
    type: ODBC
    key: 'db.odbc.get[get_system_metrics,,"Driver={$ORACLE.DRIVER};DBQ://{HOST.CONN}:{$ORACLE.PORT}/{$ORACLE.SERVICE};"]'
    delay: 0;m0-59
    history: '0'
    trends: '0'
    value_type: TEXT
    params: |
      SELECT 'SYS::' || METRIC_NAME AS METRIC, ROUND(VALUE,3) as VALUE
      FROM V$SYSMETRIC WHERE GROUP_ID = 2
      UNION
      SELECT 'SYSPARAM::' || INITCAP(NAME) AS METRIC, to_number(VALUE)
      FROM V$SYSTEM_PARAMETER WHERE NAME IN ('sessions', 'processes', 'db_files')
      UNION
      SELECT 'SESSION::Long time locked ',count(*) FROM V$SESSION s WHERE s.BLOCKING_SESSION IS NOT NULL AND
s.BLOCKING_SESSION_STATUS='VALID' AND s.SECONDS_IN_WAIT > {$ORACLE.SESSION.LOCK.MAX.TIME}
      UNION
      SELECT 'SESSION::Lock rate ',(cnt_block / cnt_all)* 100 pct
      FROM ( SELECT COUNT(*) cnt_block FROM v$session WHERE blocking_session IS NOT NULL), ( SELECT COUNT(*) cnt_all FROM v$session)
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```

# YAML

## Templates



Template groups

Linked templates

Name

Vendor

Version

<input type="checkbox"/>	Name ▲	Hosts	Items	Triggers	Graphs	Dashboards	Discovery
<input type="checkbox"/>	Acronis Cyber Protect Cloud by HTTP	Hosts	Items 1	Triggers	Graphs	Dashboards	Discovery 1
<input type="checkbox"/>	Acronis Cyber Protect Cloud MSP by HTTP	Hosts	Items 9	Triggers	Graphs 1	Dashboards 1	Discovery 3
<input type="checkbox"/>	AIX by Zabbix agent	Hosts	Items 44	Triggers 10	Graphs 4	Dashboards 1	Discovery 2
<input type="checkbox"/>	Alcatel Timetra TIMOS by SNMP	Hosts	Items 19	Triggers 9	Graphs 3	Dashboards 1	Discovery 6
<input type="checkbox"/>	Apache ActiveMQ by JMX	Hosts	Items	Triggers	Graphs	Dashboards 1	Discovery 2
<input type="checkbox"/>	Apache by HTTP	Hosts	Items 22	Triggers 5	Graphs 3	Dashboards 1	Discovery 1
<input type="checkbox"/>	Apache by Zabbix agent	Hosts	Items 23	Triggers 2	Graphs 3	Dashboards 1	Discovery 2
<input type="checkbox"/>	Apache Cassandra by JMX	Hosts	Items 67	Triggers 6	Graphs 7	Dashboards 1	Discovery 1
<input type="checkbox"/>	Apache Kafka by JMX	Hosts	Items 62	Triggers 11	Graphs 9	Dashboards 1	Discovery 3
<input type="checkbox"/>	Apache Tomcat by JMX	Hosts	Items 1	Triggers 1	Graphs	Dashboards 1	Discovery 4
<input type="checkbox"/>	APC Smart-UPS 2200 RM by SNMP	Hosts	Items 26	Triggers 22	Graphs 3	Dashboards 1	Discovery 6
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<input type="checkbox"/>	Arista by SNMP	Hosts	Items 14	Triggers 7	Graphs 1	Dashboards 1	Discovery 9
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# UI



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          key: 'db.odbc.get[get_instance_state, "Driver={$ORACLE.DRIVER};DBQ://{HOST.CONN}:{$ORACLE.PORT}/{$ORACLE.SERVICE};"]'
          history: '0'
          trends: '0'
          value_type: TEXT
          params: |
            SELECT
              INSTANCE_NAME,
              HOST_NAME,
              VERSION || ' - ' || EDITION AS VERSION,
              Floor((SYSDATE - startup_time)/60*60*24) AS UPTIME,
              decode(status,'STARTED',1,'MOUNTED',2,'OPEN',3,'OPEN MIGRATE',4,0) AS STATUS,
              decode(archiver,'STOPPED',1,'STARTED',2,'FAILED',3,0) AS ARCHIVER,
              decode(instance_role,'PRIMARY_INSTANCE',1,'SECONDARY_INSTANCE',2,0) AS INSTANCE_ROLE
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          delay: 0;m0-59
          history: '0'
          trends: '0'
          value_type: TEXT
          params: |
            SELECT 'SYS:.' || METRIC_NAME AS METRIC, ROUND(VALUE,3) as VALUE
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            UNION
            SELECT 'SESSION:Lock rate', (cnt_block / cnt_all)* 100 pct
            FROM ( SELECT COUNT(*) cnt_block FROM v$session WHERE blocking_session IS NOT NULL), ( SELECT COUNT(*) cnt_all FROM v$session)
            UNION
            SELECT 'SESSION:Long time locked',count(*) FROM v$SESSION s WHERE s.BLOCKING_SESSION IS NOT NULL AND
            s.BLOCKING_SESSION_STATUS='VALID' AND s.SECONDS_IN_WAIT > {$ORACLE.SESSION.LOCK_MAX_TIME}

```

# YAML

## Templates



Template groups  
  
 Linked templates  
  
 Name 
  
 Vendor 
  
 Version

<input type="checkbox"/>	Name ▲	Hosts	Items	Triggers	Graphs	Dashboards	Discovery
<input type="checkbox"/>	Acronis Cyber Protect Cloud by HTTP	Hosts	Items 1	Triggers	Graphs	Dashboards	Discovery 1
<input type="checkbox"/>	Acronis Cyber Protect Cloud MSP by HTTP	Hosts	Items 9	Triggers	Graphs 1	Dashboards 1	Discovery 3
<input type="checkbox"/>	AIX by Zabbix agent	Hosts	Items 44	Triggers 10	Graphs 4	Dashboards 1	Discovery 2
<input type="checkbox"/>	Alcatel Timetra TIMOS by SNMP	Hosts	Items 19	Triggers 9	Graphs 3	Dashboards 1	Discovery 6
<input type="checkbox"/>	Apache ActiveMQ by JMX	Hosts	Items 1	Triggers	Graphs	Dashboards 1	Discovery 2
<input type="checkbox"/>	Apache by HTTP	Hosts	Items 1	Triggers 5	Graphs 3	Dashboards 1	Discovery 1
<input type="checkbox"/>	Apache by Zabbix agent	Hosts	Items 1	Triggers 2	Graphs 3	Dashboards 1	Discovery 2
<input type="checkbox"/>	Apache Cassandra by JMX	Hosts	Items 1	Triggers 6	Graphs 7	Dashboards 1	Discovery 1
<input type="checkbox"/>	Apache Kafka by JMX	Hosts	Items 1	Triggers 11	Graphs 9	Dashboards 1	Discovery 3
<input type="checkbox"/>	Apache Tomcat by JMX	Hosts	Items 1	Triggers 1	Graphs	Dashboards 1	Discovery 4
<input type="checkbox"/>	APC Smart-UPS 2200 RM by SNMP	Hosts	Items 26	Triggers 22	Graphs 3	Dashboards 1	Discovery 6
<input type="checkbox"/>	APC Smart-UPS 3000 XLM by SNMP	Hosts	Items 26	Triggers 22	Graphs 3	Dashboards 1	Discovery 6
<input type="checkbox"/>	APC Smart-UPS RT 1000 RM XL by SNMP	Hosts	Items 26	Triggers 22	Graphs 3	Dashboards 1	Discovery 6
<input type="checkbox"/>	APC Smart-UPS RT 1000 XL by SNMP	Hosts	Items 26	Triggers 22	Graphs 3	Dashboards 1	Discovery 6
<input type="checkbox"/>	APC Smart-UPS SRT 5000 by SNMP	Hosts	Items 26	Triggers 22	Graphs 3	Dashboards 1	Discovery 6
<input type="checkbox"/>	APC Smart-UPS SRT 8000 by SNMP	Hosts	Items 26	Triggers 22	Graphs 3	Dashboards 1	Discovery 6
<input type="checkbox"/>	APC UPS by SNMP	Hosts	Items 26	Triggers 22	Graphs 3	Dashboards 1	Discovery 6
<input type="checkbox"/>	APC UPS Galaxy 3500 by SNMP	Hosts	Items 26	Triggers 22	Graphs 3	Dashboards 1	Discovery 6
<input type="checkbox"/>	APC UPS Symmetra LX by SNMP	Hosts	Items 26	Triggers 22	Graphs 3	Dashboards 1	Discovery 6
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<input type="checkbox"/>	Aranet Cloud	Hosts	Items 2	Triggers	Graphs	Dashboards	Discovery 2
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<input type="checkbox"/>	Asterisk by HTTP	Hosts	Items 26	Triggers 9	Graphs 4	Dashboards	Discovery 4

# UI



Template groups

Tags

Linked templates

Contains

Name

Vendor

Version

# ITEMS

<input type="checkbox"/>	Name ▲	Hosts	Items	Triggers	Graphs	Dashboards	Discovery	Web	Vendor	Version	Linked templates	Linked to templates	Tags
<input type="checkbox"/>	Acronis Cyber Protect Cloud by HTTP	Hosts	Items 1	Triggers	Graphs	Dashboards	Discovery 1	Web	Zabbix	7.0-0			class: application target: acronis target: cyber-protect-cl...
<input type="checkbox"/>	Acronis Cyber Protect Cloud MSP by HTTP	Hosts	Items 9	Triggers	Graphs 1	Dashboards 1	Discovery 3	Web	Zabbix	7.0-0			class: application target: acronis target: cyber-protect-cl...
<input type="checkbox"/>	AIX by Zabbix agent	Hosts	Items 44	Triggers 10	Graphs 4	Dashboards 1	Discovery 2	Web	Zabbix	7.0-0			class: os target: aix
<input type="checkbox"/>	Alcatel Timetra TIMOS by SNMP	Hosts	Items 19	Triggers 9	Graphs 3	Dashboards 1	Discovery 6	Web	Zabbix	7.0-0			class: network target: alcatel target: alcatel-timetra
<input type="checkbox"/>	Apache ActiveMQ by JMX	Hosts	Items	Triggers	Graphs	Dashboards	Discovery	Web	Zabbix	7.0-0			class: application target: apache-activemq
<input type="checkbox"/>	Apache by HTTP	Hosts	Items 22	Triggers 5	Graphs 3	Dashboards 1	Discovery 1	Web	Zabbix	7.0-0			class: software target: apache
<input type="checkbox"/>	Apache by Zabbix agent	Hosts	Items 23	Triggers 2	Graphs 3	Dashboards 1	Discovery 2	Web	Zabbix	7.0-0			class: software target: apache
<input type="checkbox"/>	Apache Cassandra by JMX	Hosts	Items 67	Triggers 6	Graphs 7	Dashboards 1	Discovery 1	Web	Zabbix	7.0-0			class: database target: apache-cassa...
<input type="checkbox"/>	Apache Kafka by JMX	Hosts	Items 62	Triggers 11	Graphs 9	Dashboards 1	Discovery 3	Web	Zabbix	7.0-0			class: application target: apache-kafka
<input type="checkbox"/>	Apache Tomcat by JMX	Hosts	Items 1	Triggers 1	Graphs	Dashboards 1	Discovery 4	Web	Zabbix	7.0-0			class: software target: tomcat
<input type="checkbox"/>	APC Smart-UPS 2200 RM by SNMP	Hosts	Items 26	Triggers 22	Graphs 3	Dashboards 1	Discovery 6	Web	Zabbix	7.0-0			class: power target: apc target: apc-smart-ups...
<input type="checkbox"/>	APC Smart-UPS 3000 XLM by SNMP	Hosts	Items 26	Triggers 22	Graphs 3	Dashboards 1	Discovery 6	Web	Zabbix	7.0-0			class: power target: apc target: apc-smart-ups...
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<input type="checkbox"/>	APC UPS Galaxy 3500 by SNMP	Hosts	Items 26	Triggers 22	Graphs 3	Dashboards 1	Discovery 6	Web	Zabbix	7.0-0			class: power target: apc target: apc-ups-galaxy...
<input type="checkbox"/>	APC UPS Symmetra LX by SNMP	Hosts	Items 26	Triggers 22	Graphs 3	Dashboards 1	Discovery 6	Web	Zabbix	7.0-0			class: power target: apc target: apc-ups-symm...
<input type="checkbox"/>	APC UPS Symmetra RM by SNMP	Hosts	Items 26	Triggers 22	Graphs 3	Dashboards 1	Discovery 6	Web	Zabbix	7.0-0			class: power target: apc target: apc-ups-symm...
<input type="checkbox"/>	APC UPS Symmetra RX by SNMP	Hosts	Items 26	Triggers 22	Graphs 3	Dashboards 1	Discovery 6	Web	Zabbix	7.0-0			class: power target: apc target: apc-ups-symm...
<input type="checkbox"/>	Aranet Cloud	Hosts	Items 2	Triggers	Graphs	Dashboards	Discovery 21	Web	Zabbix	7.0-0			class: service target: aranel
<input type="checkbox"/>	Arista by SNMP	Hosts	Items 14	Triggers 7	Graphs 1	Dashboards 1	Discovery 9	Web	Zabbix	7.0-0			class: network target: arista
<input type="checkbox"/>	Asterisk by HTTP	Hosts	Items 26	Triggers 9	Graphs 4	Dashboards	Discovery 4	Web	Zabbix	7.0-0			class: voip target: asterisk



Template groups   Tags

Linked templates   tag  Contains  value

# Master & Dependent

<input type="checkbox"/>	Name ▲	Hosts	Items	Triggers	Graphs	Dashboards	Discovery	Web	Vendor	Version	Linked templates	Linked to templates	Tags
<input type="checkbox"/>	Acronis Cyber Protect Cloud by HTTP	Hosts	Items 1	Triggers	Graphs	Dashboards	Discovery 1	Web	Zabbix	7.0-0			class: application target: acronis target: cyber-protect-cl...
<input type="checkbox"/>	Acronis Cyber Protect Cloud MSP by HTTP	Hosts	Items 9	Triggers	Graphs 1	Dashboards 1	Discovery 3	Web	Zabbix	7.0-0			class: application target: acronis target: cyber-protect-cl...
<input type="checkbox"/>	AIX by Zabbix agent	Hosts	Items 44	Triggers 10	Graphs 4	Dashboards 1	Discovery 2	Web	Zabbix	7.0-0			class: os target: aix
<input type="checkbox"/>	Alcatel Timetra TIMOS by SNMP	Hosts	Items 19	Triggers 9	Graphs 1	Dashboards 1	Discovery 1	Web	Zabbix	7.0-0			class: network target: alcatel target: alcatel-timetra
<input type="checkbox"/>	Apache ActiveMQ by JMX	Hosts	Items	Triggers	Graphs	Dashboards	Discovery	Web	Zabbix	7.0-0			class: application target: apache-activemq
<input type="checkbox"/>	Apache by HTTP	Hosts	Items 22	Triggers 5	Graphs	Dashboards	Discovery	Web	Zabbix	7.0-0			class: software target: apache
<input type="checkbox"/>	Apache by Zabbix agent	Hosts	Items 23	Triggers 2	Graphs 3	Dashboards 1	Discovery 2	Web	Zabbix	7.0-0			class: software target: apache
<input type="checkbox"/>	Apache Cassandra by JMX	Hosts	Items 67	Triggers 6	Graphs 7	Dashboards 1	Discovery 1	Web	Zabbix	7.0-0			class: database target: apache-cassa...
<input type="checkbox"/>	Apache Kafka by JMX	Hosts	Items 62	Triggers 11	Graphs 9	Dashboards 1	Discovery 1	Web	Zabbix	7.0-0			class: application target: apache-kafka
<input type="checkbox"/>	Apache Tomcat by JMX	Hosts	Items 1	Triggers 1	Graphs	Dashboards	Discovery	Web	Zabbix	7.0-0			class: software target: tomcat
<input type="checkbox"/>	APC Smart-UPS 2200 RM by SNMP	Hosts	Items 26	Triggers 22	Graphs 3	Dashboards 1	Discovery 6	Web	Zabbix	7.0-0			class: power target: apc target: apc-smart-ups...
<input type="checkbox"/>	APC Smart-UPS 3000 XLM by SNMP	Hosts	Items 26	Triggers 22	Graphs 3	Dashboards 1	Discovery 6	Web	Zabbix	7.0-0			class: power target: apc target: apc-smart-ups...
<input type="checkbox"/>	APC Smart-UPS RT 1000 RM XL by SNMP	Hosts	Items 26	Triggers 22	Graphs 3	Dashboards 1	Discovery 6	Web	Zabbix	7.0-0			class: power target: apc target: apc-smart-ups...
<input type="checkbox"/>	APC Smart-UPS RT 1000 XL by SNMP	Hosts	Items 26	Triggers 22	Graphs 3	Dashboards 1	Discovery 6	Web	Zabbix	7.0-0			class: power target: apc target: apc-smart-ups...
<input type="checkbox"/>	APC Smart-UPS SRT 5000 by SNMP	Hosts	Items 26	Triggers 22	Graphs 3	Dashboards 1	Discovery 6	Web	Zabbix	7.0-0			class: power target: apc target: apc-smart-ups...
<input type="checkbox"/>	APC Smart-UPS SRT 8000 by SNMP	Hosts	Items 26	Triggers 22	Graphs 3	Dashboards 1	Discovery 6	Web	Zabbix	7.0-0			class: power target: apc target: apc-smart-ups...
<input type="checkbox"/>	APC UPS by SNMP	Hosts	Items 26	Triggers 22	Graphs 3	Dashboards 1	Discovery 6	Web	Zabbix	7.0-0			class: power target: apc
<input type="checkbox"/>	APC UPS Galaxy 3500 by SNMP	Hosts	Items 26	Triggers 22	Graphs 3	Dashboards 1	Discovery 6	Web	Zabbix	7.0-0			class: power target: apc target: apc-ups-galaxy...
<input type="checkbox"/>	APC UPS Symmetra LX by SNMP	Hosts	Items 26	Triggers 22	Graphs 3	Dashboards 1	Discovery 6	Web	Zabbix	7.0-0			class: power target: apc target: apc-ups-symm...
<input type="checkbox"/>	APC UPS Symmetra RM by SNMP	Hosts	Items 26	Triggers 22	Graphs 3	Dashboards 1	Discovery 6	Web	Zabbix	7.0-0			class: power target: apc target: apc-ups-symm...
<input type="checkbox"/>	APC UPS Symmetra RX by SNMP	Hosts	Items 26	Triggers 22	Graphs 3	Dashboards 1	Discovery 6	Web	Zabbix	7.0-0			class: power target: apc target: apc-ups-symm...
<input type="checkbox"/>	Aranet Cloud	Hosts	Items 2	Triggers	Graphs	Dashboards	Discovery 21	Web	Zabbix	7.0-0			class: service target: aranel
<input type="checkbox"/>	Arista by SNMP	Hosts	Items 14	Triggers 7	Graphs 1	Dashboards 1	Discovery 9	Web	Zabbix	7.0-0			class: network target: arista
<input type="checkbox"/>	Asterisk by HTTP	Hosts	Items 26	Triggers 9	Graphs 4	Dashboards	Discovery 4	Web	Zabbix	7.0-0			class: voip target: asterisk

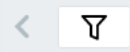


<input type="checkbox"/>	Name ▲	Triggers	Key	Interval	History	Trends	Type	Status	Tags	Info
<input type="checkbox"/>	... Oracle: Get Archiver state		db.odbc.get[get_archiver_state,,"Driver={\${ORACLE.DRIVER}};DBQ=://{HOST.CONN};\${ORACLE.PORT}/\${ORACLE.SERVICE};"]	{\${ORACLE.INTERVAL}}	7d		Database monitor	Enabled	component: application	
<input type="checkbox"/>	... Oracle: Get instance hostname		db.odbc.get[get_instance_hostname,,"Driver={\${ORACLE.DRIVER}};DBQ=://{HOST.CONN};\${ORACLE.PORT}/\${ORACLE.SERVICE};"]	{\${ORACLE.INTERVAL}}	7d		Database monitor	Enabled	component: application	
<input type="checkbox"/>	... Oracle: Get instance name		db.odbc.get[get_instance_name,,"Driver={\${ORACLE.DRIVER}};DBQ=://{HOST.CONN};\${ORACLE.PORT}/\${ORACLE.SERVICE};"]	{\${ORACLE.INTERVAL}}	7d		Database monitor	Enabled	component: application	
<input type="checkbox"/>	... Oracle: Get instance role		db.odbc.get[get_instance_role,,"Driver={\${ORACLE.DRIVER}};DBQ=://{HOST.CONN};\${ORACLE.PORT}/\${ORACLE.SERVICE};"]	{\${ORACLE.INTERVAL}}	7d	365d	Database monitor	Enabled	component: application	
<input type="checkbox"/>	... Oracle: Get instance status		db.odbc.get[get_instance_status,,"Driver={\${ORACLE.DRIVER}};DBQ=://{HOST.CONN};\${ORACLE.PORT}/\${ORACLE.SERVICE};"]	{\${ORACLE.INTERVAL}}	7d	365d	Database monitor	Enabled	component: application	
<input type="checkbox"/>	... Oracle: Get uptime		db.odbc.get[get_uptime,,"Driver={\${ORACLE.DRIVER}};DBQ=://{HOST.CONN};\${ORACLE.PORT}/\${ORACLE.SERVICE};"]	{\${ORACLE.INTERVAL}}	7d	365d	Database monitor	Enabled	component: application	
<input type="checkbox"/>	... Oracle: Get version		db.odbc.get[get_version,,"Driver={\${ORACLE.DRIVER}};DBQ=://{HOST.CONN};\${ORACLE.PORT}/\${ORACLE.SERVICE};"]	{\${ORACLE.INTERVAL}}	7d		Database monitor	Enabled	component: application	

Displaying 7 of 7 found

0 selected

- Enable
- Disable
- Execute now
- Clear history and trends
- Copy
- Mass update
- Delete



Subfilter affects only filtered data

HOSTS  
[Oracle DB - Bad 7](#)

TAGS  
[component 7](#)

TAG VALUES  
component: [application 7](#)

DATA  
[With data](#) [Without data](#)

<input type="checkbox"/>	Host	Name ▲	Last check	Last value	Change	Tags	Info
<input type="checkbox"/>	<a href="#">Oracle DB - Bad</a>	<a href="#">Oracle: Get Archiver state</a>	1s	1		<a href="#">component: application</a>	<a href="#">History</a>
<input type="checkbox"/>	<a href="#">Oracle DB - Bad</a>	<a href="#">Oracle: Get instance hostname</a>	5s	80c08dcc2d72		<a href="#">component: application</a>	<a href="#">History</a>
<input type="checkbox"/>	<a href="#">Oracle DB - Bad</a>	<a href="#">Oracle: Get instance name</a>	2s	ORCLCDB		<a href="#">component: application</a>	<a href="#">History</a>
<input type="checkbox"/>	<a href="#">Oracle DB - Bad</a>	<a href="#">Oracle: Get instance role</a>	4s	1		<a href="#">component: application</a>	<a href="#">Graph</a>
<input type="checkbox"/>	<a href="#">Oracle DB - Bad</a>	<a href="#">Oracle: Get instance status</a>	3s	3		<a href="#">component: application</a>	<a href="#">Graph</a>
<input type="checkbox"/>	<a href="#">Oracle DB - Bad</a>	<a href="#">Oracle: Get uptime</a>	2s	15846	+5	<a href="#">component: application</a>	<a href="#">Graph</a>
<input type="checkbox"/>	<a href="#">Oracle DB - Bad</a>	<a href="#">Oracle: Get version</a>	4m 28s	21.0.0.0-EE		<a href="#">component: application</a>	<a href="#">History</a>

Displaying 7 of 7 found

0 selected

[Display stacked graph](#)

[Display graph](#)

[Execute now](#)





<input type="checkbox"/>	Name ▲	Triggers	Key	Interval	History	Trends	Type	Status	Tags	Info
<input type="checkbox"/>	... Oracle: Get Archiver state		db.odb.get[get_archiver_state,,"Driver={\${ORACLE.DRIVER}};DBQ=://{HOST.CONN};\${ORACLE.PORT}/\${ORACLE.SERVICE};"]	{\${ORACLE.INTERVAL}}	7d		Database monitor	Enabled	component: application	
<input type="checkbox"/>	... Oracle: Get instance hostname		db.odb.get[get_instance_hostname,,"Driver={\${ORACLE.DRIVER}};DBQ=://{HOST.CONN};\${ORACLE.PORT}/\${ORACLE.SERVICE};"]	{\${ORACLE.INTERVAL}}	7d		Database monitor	Enabled	component: application	
<input type="checkbox"/>	... Oracle: Get instance name		db.odb.get[get_instance_name,,"Driver={\${ORACLE.DRIVER}};DBQ=://{HOST.CONN};\${ORACLE.PORT}/\${ORACLE.SERVICE};"]	{\${ORACLE.INTERVAL}}	7d		Database monitor	Enabled	component: application	
<input type="checkbox"/>	... Oracle: Get instance role		db.odb.get[get_instance_role,,"Driver={\${ORACLE.DRIVER}};DBQ=://{HOST.CONN};\${ORACLE.PORT}/\${ORACLE.SERVICE};"]	{\${ORACLE.INTERVAL}}	7d	365d	Database monitor	Enabled	component: application	
<input type="checkbox"/>	... Oracle: Get instance status		db.odb.get[get_instance_status,,"Driver={\${ORACLE.DRIVER}};DBQ=://{HOST.CONN};\${ORACLE.PORT}/\${ORACLE.SERVICE};"]	{\${ORACLE.INTERVAL}}	7d	365d	Database monitor	Enabled	component: application	
<input type="checkbox"/>	... Oracle: Get uptime		db.odb.get[get_uptime,,"Driver={\${ORACLE.DRIVER}};DBQ=://{HOST.CONN};\${ORACLE.PORT}/\${ORACLE.SERVICE};"]	{\${ORACLE.INTERVAL}}	7d	365d	Database monitor	Enabled	component: application	
<input type="checkbox"/>	... Oracle: Get version		db.odb.get[get_version,,"Driver={\${ORACLE.DRIVER}};DBQ=://{HOST.CONN};\${ORACLE.PORT}/\${ORACLE.SERVICE};"]	{\${ORACLE.INTERVAL}}	7d		Database monitor	Enabled	component: application	

Displaying 7 of 7 found

0 selected

- Enable
- Disable
- Execute now
- Clear history and trends
- Copy
- Mass update
- Delete





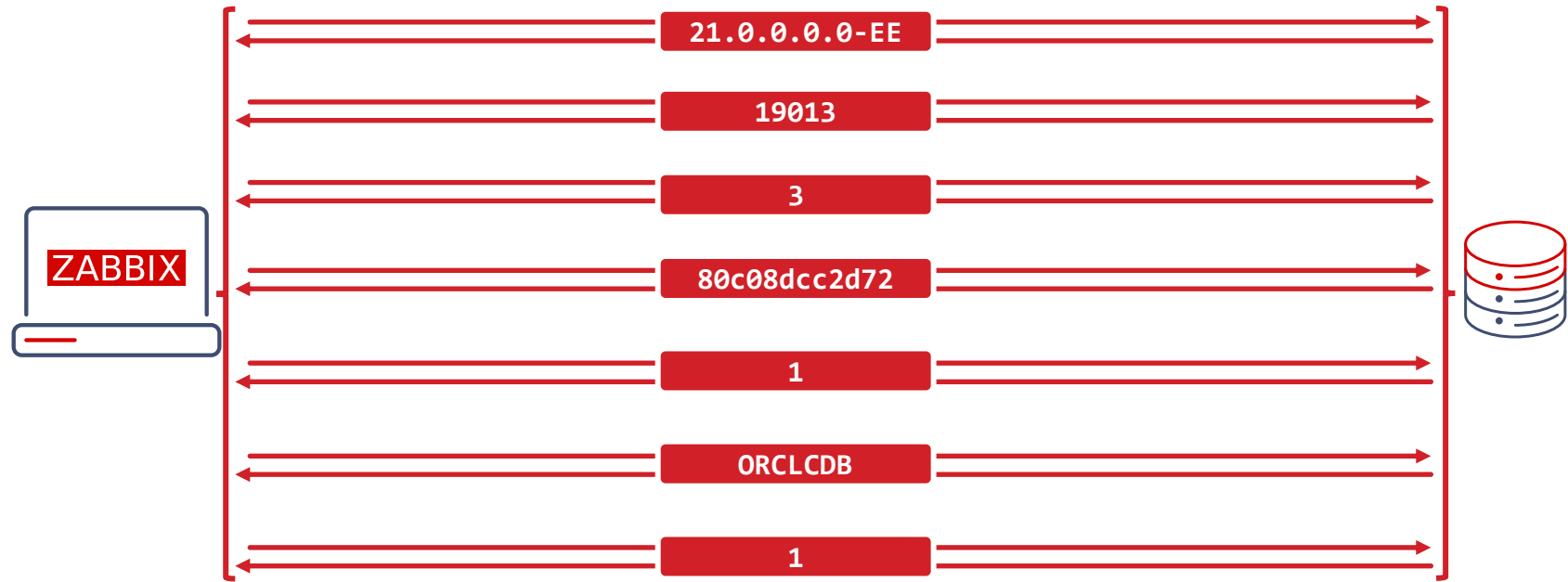


Please give me your version number











# Items

[Create item](#)

All hosts / Oracle DB - Good Enabled ZBX **Items 8** [Triggers](#) [Graphs](#) [Discovery rules](#) [Web scenarios](#)

Filter

<input type="checkbox"/>	Name ▲	Triggers	Key	Interval	History	Trends	Type	Status	Tags	Info
<input type="checkbox"/>	... <a href="#">Oracle: Get instance state: Oracle: Archiver state</a>		oracle.archiver_state		7d	365d	Dependent item	<span>Enabled</span>	<span>component: application</span>	
<input type="checkbox"/>	... <a href="#">Oracle: Get instance state</a>		db.odb.get[get_instance_state,,"Driver={ORACLE.DRIVER};DBQ://{HOST.CONN};{ORACLE.PORT}/{ORACLE.SERVICE};"]	{ORACLE.INTERVAL}	0		Database monitor	<span>Enabled</span>	<span>component: raw</span>	
<input type="checkbox"/>	... <a href="#">Oracle: Get instance state: Oracle: Instance hostname</a>		oracle.instance_hostname		7d		Dependent item	<span>Enabled</span>	<span>component: application</span>	
<input type="checkbox"/>	... <a href="#">Oracle: Get instance state: Oracle: Instance name</a>		oracle.instance_name		7d		Dependent item	<span>Enabled</span>	<span>component: application</span>	
<input type="checkbox"/>	... <a href="#">Oracle: Get instance state: Oracle: Instance role</a>		oracle.instance.role		7d	365d	Dependent item	<span>Enabled</span>	<span>component: application</span>	
<input type="checkbox"/>	... <a href="#">Oracle: Get instance state: Oracle: Instance status</a>		oracle.instance_status		7d	365d	Dependent item	<span>Enabled</span>	<span>component: application</span>	
<input type="checkbox"/>	... <a href="#">Oracle: Get instance state: Oracle: Uptime</a>		oracle.uptime		7d	365d	Dependent item	<span>Enabled</span>	<span>component: application</span>	
<input type="checkbox"/>	... <a href="#">Oracle: Get instance state: Oracle: Version</a>		oracle.version		7d		Dependent item	<span>Enabled</span>	<span>component: application</span>	

Displaying 8 of 8 found

0 selected [Enable](#) [Disable](#) [Execute now](#) [Clear history and trends](#) [Copy](#) [Mass update](#) [Delete](#)



Subfilter affects only filtered data

HOSTS  
[Oracle DB - Good 8](#)

TAGS  
[component 8](#)

TAG VALUES  
component: [application 7](#) [raw 1](#)

DATA  
[With data](#) [Without data](#)

<input type="checkbox"/>	Host	Name ▲	Last check	Last value	Change	Tags	Info
<input type="checkbox"/>	<a href="#">Oracle DB - Good</a>	<a href="#">Oracle: Archiver state</a>	1s	1		<a href="#">component: application</a>	<a href="#">Graph</a>
<input type="checkbox"/>	<a href="#">Oracle DB - Good</a>	<a href="#">Oracle: Get instance state</a>				<a href="#">component: raw</a>	
<input type="checkbox"/>	<a href="#">Oracle DB - Good</a>	<a href="#">Oracle: Instance hostname</a>	1s	80c08dcc2d72		<a href="#">component: application</a>	<a href="#">History</a>
<input type="checkbox"/>	<a href="#">Oracle DB - Good</a>	<a href="#">Oracle: Instance name</a>	1s	ORCLCDB		<a href="#">component: application</a>	<a href="#">History</a>
<input type="checkbox"/>	<a href="#">Oracle DB - Good</a>	<a href="#">Oracle: Instance role</a>	1s	1		<a href="#">component: application</a>	<a href="#">Graph</a>
<input type="checkbox"/>	<a href="#">Oracle DB - Good</a>	<a href="#">Oracle: Instance status</a>	1s	3		<a href="#">component: application</a>	<a href="#">Graph</a>
<input type="checkbox"/>	<a href="#">Oracle DB - Good</a>	<a href="#">Oracle: Uptime</a>	1s	16427	+1	<a href="#">component: application</a>	<a href="#">Graph</a>
<input type="checkbox"/>	<a href="#">Oracle DB - Good</a>	<a href="#">Oracle: Version</a>	15s	21.0.0.0-EE		<a href="#">component: application</a>	<a href="#">History</a>

Displaying 8 of 8 found

0 selected [Display stacked graph](#) [Display graph](#) [Execute now](#)



# Items

[Create item](#)

All hosts / Oracle DB - Good Enabled ZBX **Items 8** [Triggers](#) [Graphs](#) [Discovery rules](#) [Web scenarios](#)

Filter

<input type="checkbox"/>	Name ▲	Triggers	Key	Interval	History	Trends	Type	Status	Tags	Info
<input type="checkbox"/>	... <a href="#">Oracle: Get instance state: Oracle: Archiver state</a>		oracle.archiver_state		7d	365d	Dependent item	<span>Enabled</span>	<span>component: application</span>	
<input type="checkbox"/>	... <a href="#">Oracle: Get instance state</a>		db.odb.get[get_instance_state,,"Driver={ORACLE.DRIVER};DBQ://{HOST.CONN};{ORACLE.PORT}/{ORACLE.SERVICE};"]	{ORACLE.INTERVAL}	0		Database monitor	<span>Enabled</span>	<span>component: raw</span>	
<input type="checkbox"/>	... <a href="#">Oracle: Get instance state: Oracle: Instance hostname</a>		oracle.instance_hostname		7d		Dependent item	<span>Enabled</span>	<span>component: application</span>	
<input type="checkbox"/>	... <a href="#">Oracle: Get instance state: Oracle: Instance name</a>		oracle.instance_name		7d		Dependent item	<span>Enabled</span>	<span>component: application</span>	
<input type="checkbox"/>	... <a href="#">Oracle: Get instance state: Oracle: Instance role</a>		oracle.instance.role		7d	365d	Dependent item	<span>Enabled</span>	<span>component: application</span>	
<input type="checkbox"/>	... <a href="#">Oracle: Get instance state: Oracle: Instance status</a>		oracle.instance_status		7d	365d	Dependent item	<span>Enabled</span>	<span>component: application</span>	
<input type="checkbox"/>	... <a href="#">Oracle: Get instance state: Oracle: Uptime</a>		oracle.uptime		7d	365d	Dependent item	<span>Enabled</span>	<span>component: application</span>	
<input type="checkbox"/>	... <a href="#">Oracle: Get instance state: Oracle: Version</a>		oracle.version		7d		Dependent item	<span>Enabled</span>	<span>component: application</span>	

Displaying 8 of 8 found

0 selected Enable Disable Execute now Clear history and trends Copy Mass update Delete









Please give me your:

- Version number
- Uptime
- Instance status
- Instance hostname
- Archiver state
- Instance name
- Instance role

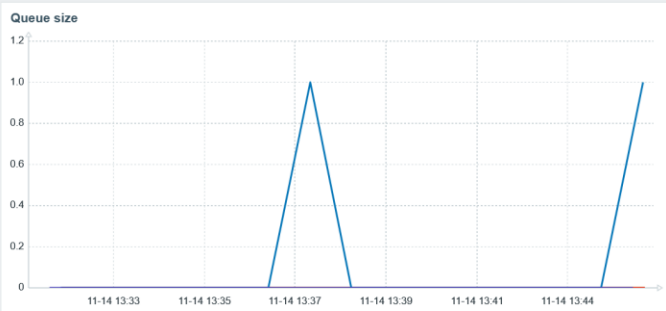
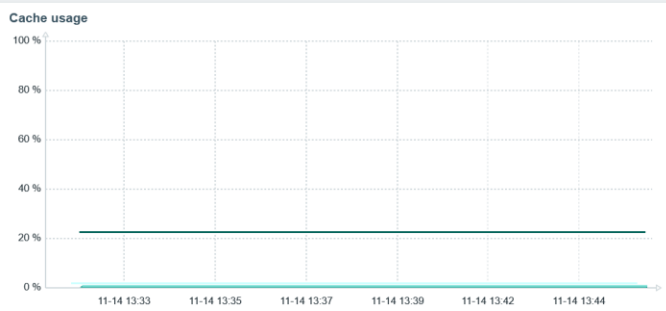
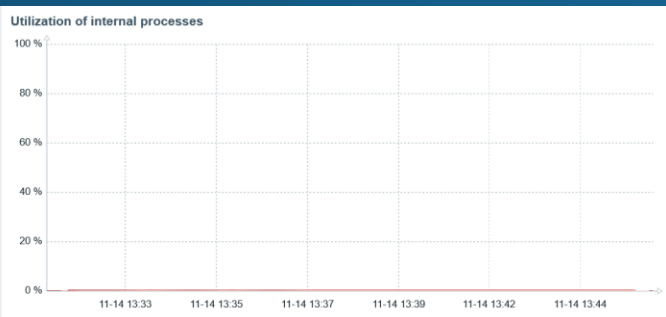
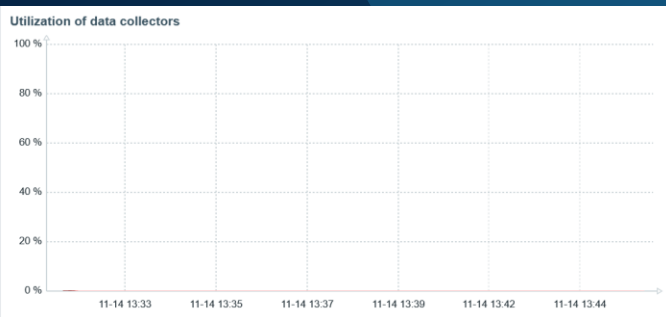
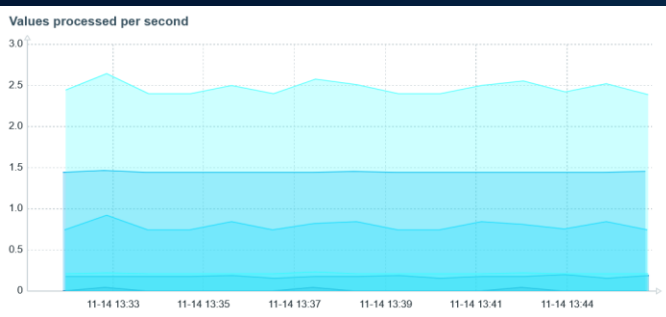




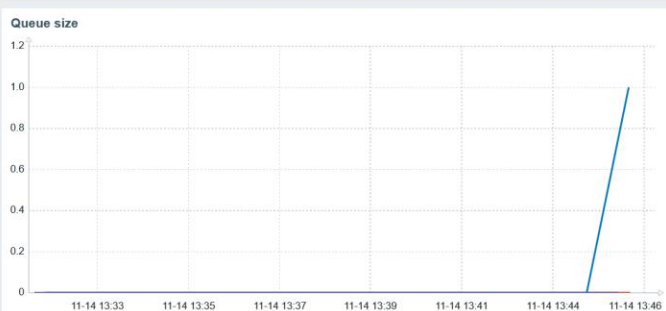
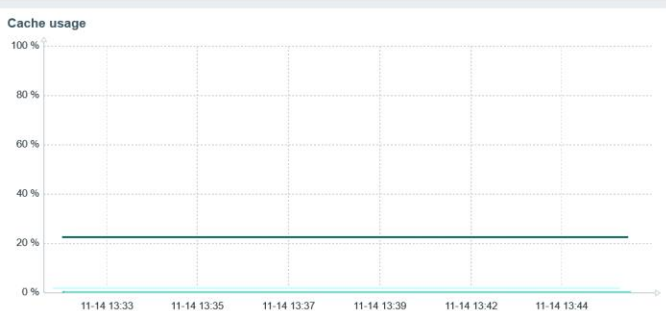
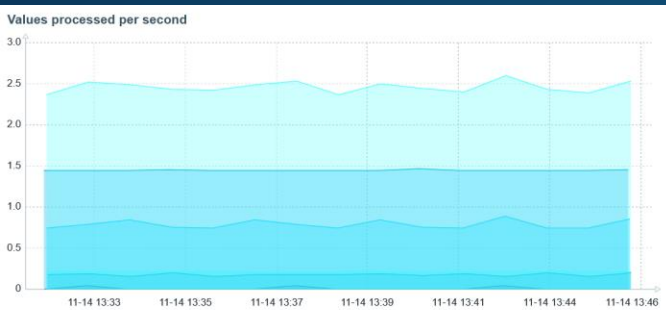


```
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  "uptime": "19013",  
  "status": "3",  
  "hostname": "80c08dcc2d72",  
  "archiver_state": "1",  
  "instance_name": "ORCLCDB",  
  "instance_role": "1"  
}
```

Version	Uptime	Instance status	Hostname	Archiver state	Instance name	Instance role
21.0.0.0-EE	19013	3	80c08dcc2d72	1	ORCLCDB	1



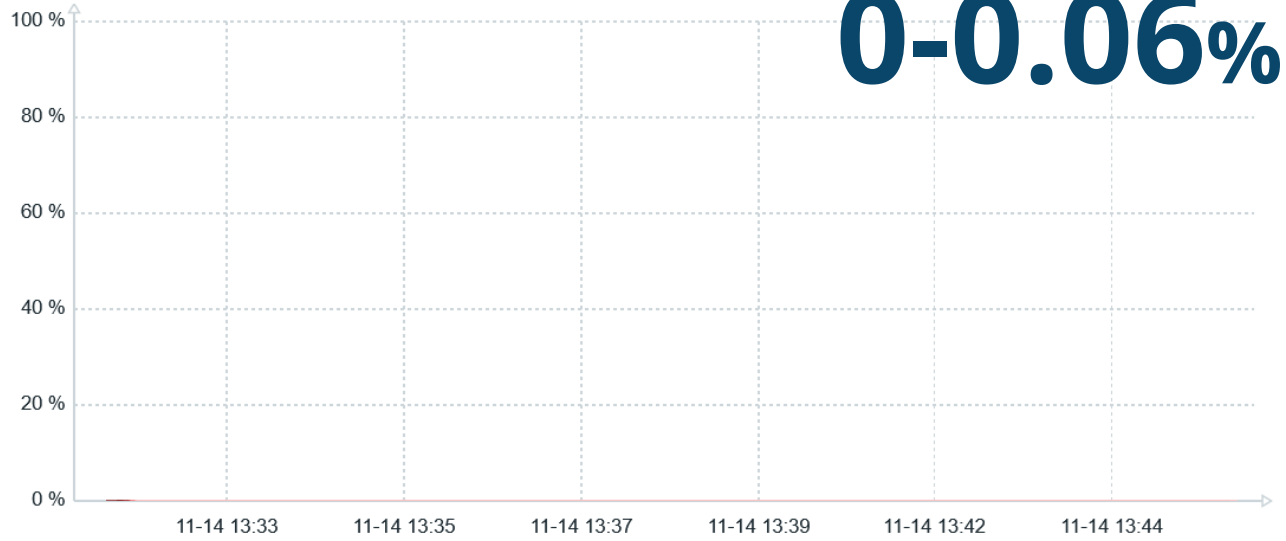
# Good



# Bad



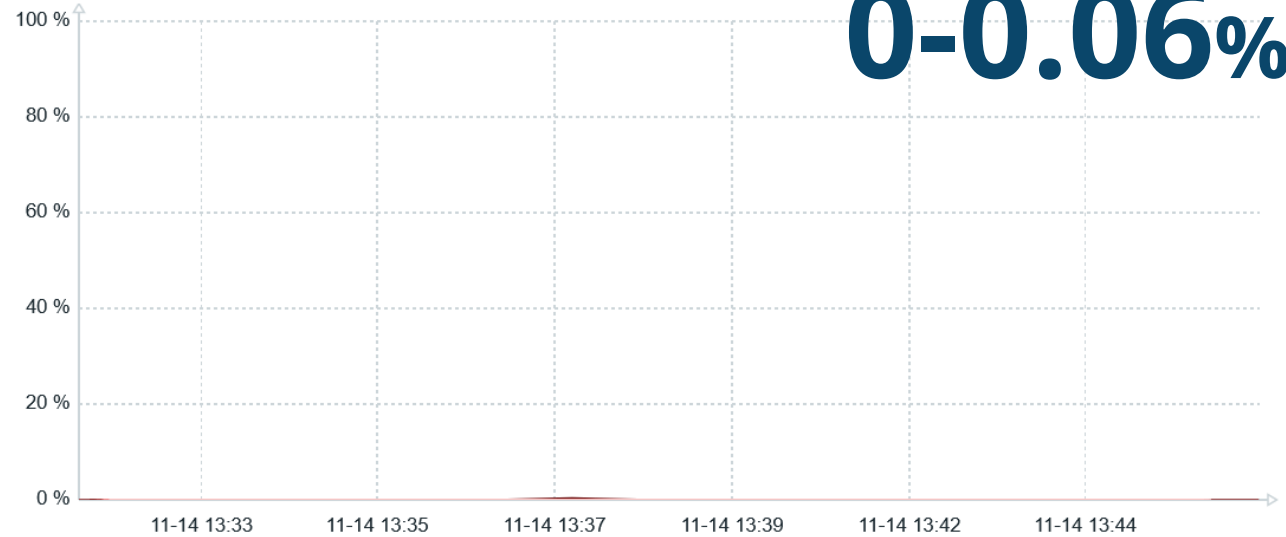
Utilization of data collectors



Good

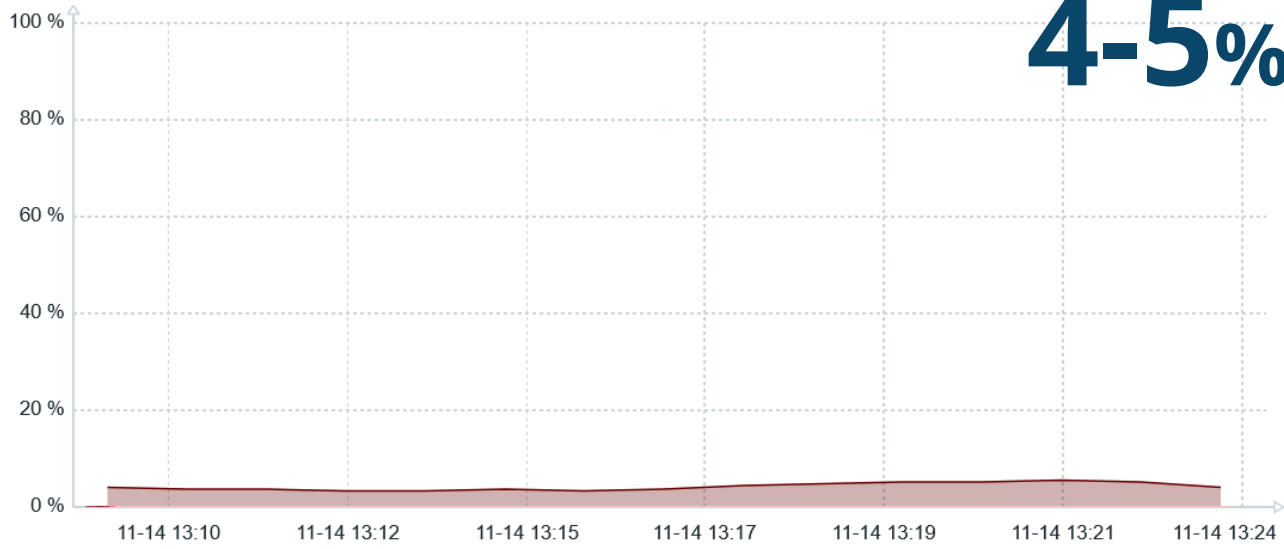
1 update interval  
m

Utilization of data collectors



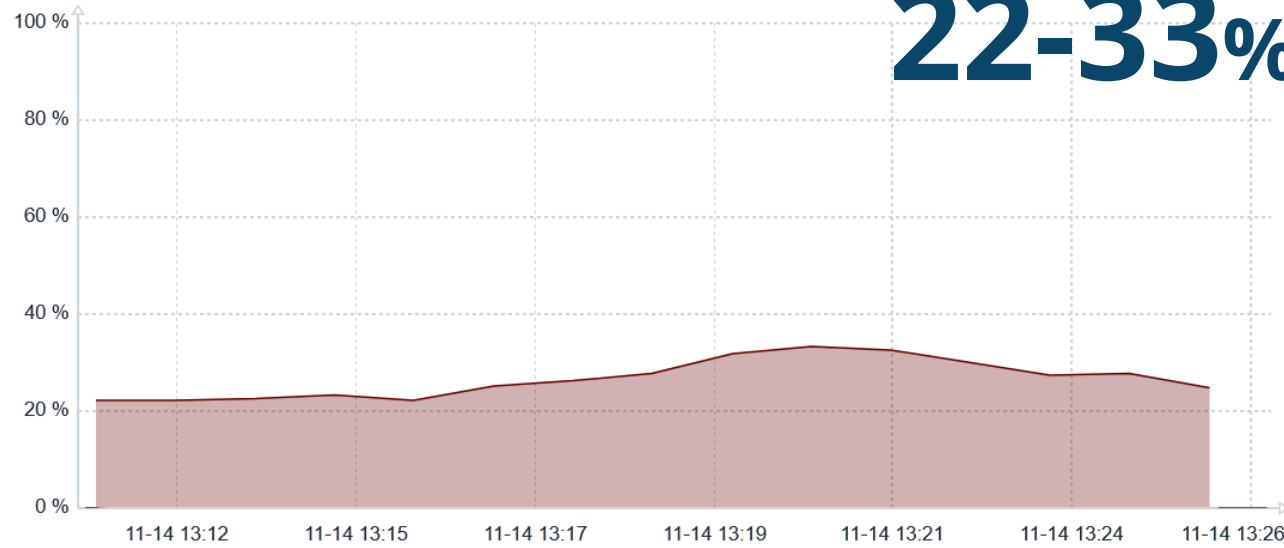
Bad

Utilization of data collectors



Good

Utilization of data collectors



Bad

1 update interval



Template groups

Tags

Linked templates

Contains

Name

Vendor

Version

[Add](#)

<input type="checkbox"/>	Name ▲	Hosts	Items	Triggers	Graphs	Dashboards	Discovery	Web	Vendor	Version	Linked templates	Linked to templates	Tags
<input type="checkbox"/>	Acronis Cyber Protect Cloud by HTTP	Hosts	Items 1	Triggers	Graphs	Dashboards	Discovery 1	Web	Zabbix	7.0-0			class: application target: acronis target: cyber-protect-cl...
<input type="checkbox"/>	Acronis Cyber Protect Cloud MSP by HTTP	Hosts	Items 9	Triggers	Graphs 1	Dashboards 1	Discovery 3	Web	Zabbix	7.0-0			class: application target: acronis target: cyber-protect-cl...
<input type="checkbox"/>	AIX by Zabbix agent	Hosts	Items 44	Triggers 10	Graphs 4	Dashboards 1	Discovery 2	Web	Zabbix	7.0-0			class: os target: aix
<input type="checkbox"/>	Alcatel Timetra TIMOS by SNMP	Hosts	Items 19	Triggers 9	Graphs 3	Dashboards 1	Discovery 6	Web	Zabbix	7.0-0			class: network target: alcatel target: alcatel-timetra
<input type="checkbox"/>	Apache ActiveMQ by JMX	Hosts	Items	Triggers	Graphs	Dashboards 1	Discovery 2	Web	Zabbix	7.0-0			class: application target: apache-activemq
<input type="checkbox"/>	Apache by HTTP	Hosts	Items	Triggers 5	Graphs 3	Dashboards 1	Discovery 1	Web	Zabbix	7.0-0			class: software target: apache
<input type="checkbox"/>	Apache by Zabbix agent	Hosts	Items 2	Triggers	Graphs	Dashboards 1	Discovery 2	Web	Zabbix	7.0-0			class: software target: apache
<input type="checkbox"/>	Apache Cassandra by JMX	Hosts	Items 6	Triggers	Graphs	Dashboards 1	Discovery 1	Web	Zabbix	7.0-0			class: database target: apache-cassa...
<input type="checkbox"/>	Apache Kafka by JMX	Hosts	Items 62	Triggers 11	Graphs 9	Dashboards 1	Discovery 3	Web	Zabbix	7.0-0			class: application target: apache-kafka
<input type="checkbox"/>	Apache Tomcat by JMX	Hosts	Items 1	Triggers 1	Graphs	Dashboards 1	Discovery 4	Web	Zabbix	7.0-0			class: software target: tomcat
<input type="checkbox"/>	APC Smart-UPS 2200 RM by SNMP	Hosts	Items 26	Triggers 22	Graphs 3	Dashboards 1	Discovery 6	Web	Zabbix	7.0-0			class: power target: apc target: apc-smart-ups...
<input type="checkbox"/>	APC Smart-UPS 3000 XLM by SNMP	Hosts	Items 26	Triggers 22	Graphs 3	Dashboards 1	Discovery 6	Web	Zabbix	7.0-0			class: power target: apc target: apc-smart-ups...
<input type="checkbox"/>	APC Smart-UPS RT 1000 RM XL by SNMP	Hosts	Items 26	Triggers 22	Graphs 3	Dashboards 1	Discovery 6	Web	Zabbix	7.0-0			class: power target: apc target: apc-smart-ups...
<input type="checkbox"/>	APC Smart-UPS RT 1000 XL by SNMP	Hosts	Items 26	Triggers 22	Graphs 3	Dashboards 1	Discovery 6	Web	Zabbix	7.0-0			class: power target: apc target: apc-smart-ups...
<input type="checkbox"/>	APC Smart-UPS SRT 5000 by SNMP	Hosts	Items 26	Triggers 22	Graphs 3	Dashboards 1	Discovery 6	Web	Zabbix	7.0-0			class: power target: apc target: apc-smart-ups...
<input type="checkbox"/>	APC Smart-UPS SRT 8000 by SNMP	Hosts	Items 26	Triggers 22	Graphs 3	Dashboards 1	Discovery 6	Web	Zabbix	7.0-0			class: power target: apc target: apc-smart-ups...
<input type="checkbox"/>	APC UPS by SNMP	Hosts	Items 26	Triggers 22	Graphs 3	Dashboards 1	Discovery 6	Web	Zabbix	7.0-0			class: power target: apc
<input type="checkbox"/>	APC UPS Galaxy 3500 by SNMP	Hosts	Items 26	Triggers 22	Graphs 3	Dashboards 1	Discovery 6	Web	Zabbix	7.0-0			class: power target: apc target: apc-ups-galaxy...
<input type="checkbox"/>	APC UPS Symmetra LX by SNMP	Hosts	Items 26	Triggers 22	Graphs 3	Dashboards 1	Discovery 6	Web	Zabbix	7.0-0			class: power target: apc target: apc-ups-symm...
<input type="checkbox"/>	APC UPS Symmetra RM by SNMP	Hosts	Items 26	Triggers 22	Graphs 3	Dashboards 1	Discovery 6	Web	Zabbix	7.0-0			class: power target: apc target: apc-ups-symm...
<input type="checkbox"/>	APC UPS Symmetra RX by SNMP	Hosts	Items 26	Triggers 22	Graphs 3	Dashboards 1	Discovery 6	Web	Zabbix	7.0-0			class: power target: apc target: apc-ups-symm...
<input type="checkbox"/>	Aranet Cloud	Hosts	Items 2	Triggers	Graphs	Dashboards	Discovery 21	Web	Zabbix	7.0-0			class: service target: aranel
<input type="checkbox"/>	Arista by SNMP	Hosts	Items 14	Triggers 7	Graphs 1	Dashboards 1	Discovery 9	Web	Zabbix	7.0-0			class: network target: arista
<input type="checkbox"/>	Asterisk by HTTP	Hosts	Items 26	Triggers 9	Graphs 4	Dashboards	Discovery 4	Web	Zabbix	7.0-0			class: voip target: asterisk

# Item parameters

Item Tags 1 Preprocessing\* Name Type \* Key  Type of information User name Password \* SQL query 

```
SELECT
INSTANCE_NAME,
HOST_NAME,
VERSION || '-' || EDITION AS VERSION,
floor((SYSDATE - startup_time)*60*60*24) AS UPTIME,
decode(status, 'STARTED', 1, 'MOUNTED', 2, 'OPEN', 3, 'OPEN
MIGRATE', 4, 0) AS STATUS,
```

\* Update interval 

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

[Add](#)

\* History storage period  Do not keep history  Storage periodPopulates host inventory field Description Enabled 

Latest data







Item Tags 1 Preprocessing 1\* Name Type \* Key  Type of information \* Master item  Units \* History storage period  Do not keep history  Storage period \* Trend storage period  Do not keep trends  Storage period Value mapping  Populates host inventory field Description Enabled 

Latest data



\* Name Oracle: Get instance state

Type Database monitor

\* Key db.odb. get\_instance\_state, "Driver={ORACLE.DRIVER};DBQ=//(HOST.CON" Select

Type of information Text

User name {\$ORACLE.USER}

Password {\$ORACLE.PASSWORD}

\* SQL query SELECT INSTANCE\_NAME, HOST\_NAME, VERSION || '-' || EDITION AS VERSION, floor((SYSDATE - startup\_time)\*60\*60\*24) AS UPTIME, decode(status, 'STARTED', 1, 'MOUNTED', 2, 'OPEN', 3, 'OPEN

\* Update interval {\$ORACLE.INTERVAL}

Custom intervals

Type	Interval	Period	Action
Flexible Scheduling	50s	1-7,00:00-24:00	<a href="#">Remove</a>
<a href="#">Add</a>			

Populates host inventory field -None-

Description

Enabled

Latest data

Update Clone Execute now Test Clear history and trends Delete Cancel

# Update interval



\* Name Oracle: Instance status

Type Dependent item

\* Key oracle.instance\_status Select

Type of information Numeric (unsigned)

\* Master item Oracle DB - Good: Oracle: Get instance state X Select

Units

\* History storage period Do not keep history Storage period 7d

\* Trend storage period Do not keep trends Storage period 365d

Value mapping type here to search Select

Populates host inventory field -None-

Description

Enabled

Latest data

Update Clone Execute now Test Clear history and trends Delete Cancel



\* Name Oracle: Get instance state

Type Database monitor

\* Key db.odb. get\_instance\_state, "Driver={ORACLE.DRIVER};DBQ=//(HOST.CON" Select

Type of information Text

User name {ORACLE.USER}

Password {ORACLE.PASSWORD}

```
* SQL query
SELECT
INSTANCE_NAME,
HOST_NAME,
VERSION || '-' || EDITION AS VERSION,
floor((SYSDATE - startup_time)*60*60*24) AS UPTIME,
decode(status, 'STARTED', 1, 'MOUNTED', 2, 'OPEN', 3, 'OPEN
MIGRATE', 4, 0) AS STATUS,
```

\* Update interval {ORACLE.INTERVAL}

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

Add

\* History storage period  Do not keep history  Storage period

Populates host inventory field -None-

Description

Enabled

Latest data

Update Clone Execute now Test Clear history and trends Delete Cancel



\* Name Oracle: Instance status

Type Dependent item

\* Key oracle.instance\_status Select

Type of information Numeric (unsigned)

\* Master item Oracle DB - Good: Oracle: Get instance state x Select

\* History storage period  Do not keep history  Storage period

\* Trend storage period  Do not keep trends  Storage period

Populates host inventory field -None-

Description

Enabled

Latest data

Update Clone Execute now Test Clear history and trends Delete Cancel

# History and trends



\* Name Oracle: Get instance state

Type Database monitor

\* Key db.odbc.get(get\_instance\_state,"Driver={ORACLE DRIVER};DBQ=//(HOST.CON Select

Type of information Text

Password {\${ORACLE.PASSWORD}}

```
* SQL query
SELECT
INSTANCE_NAME,
HOST_NAME,
VERSION || '-' || EDITION AS VERSION,
floor((SYSDATE - startup_time)*60*60*24) AS UPTIME,
decode(status, 'STARTED', 1, 'MOUNTED', 2, 'OPEN', 3, 'OPEN
MIGRATE', 4, 0) AS STATUS,
```

\* Update interval {\${ORACLE.INTERVAL}}

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

Add

\* History storage period Do not keep history Storage period

Populates host inventory field -None-

Description

Enabled

Latest data

Update Clone Execute now Test Clear history and trends Delete Cancel

# Item type



\* Name Oracle: Instance status

Type Dependent item

\* Key oracle.instance\_status Select

Type of information Numeric (unsigned)

Units

\* History storage period Do not keep history Storage period 7d

\* Trend storage period Do not keep trends Storage period 365d

Value mapping type here to search Select

Populates host inventory field -None-

Description

Enabled

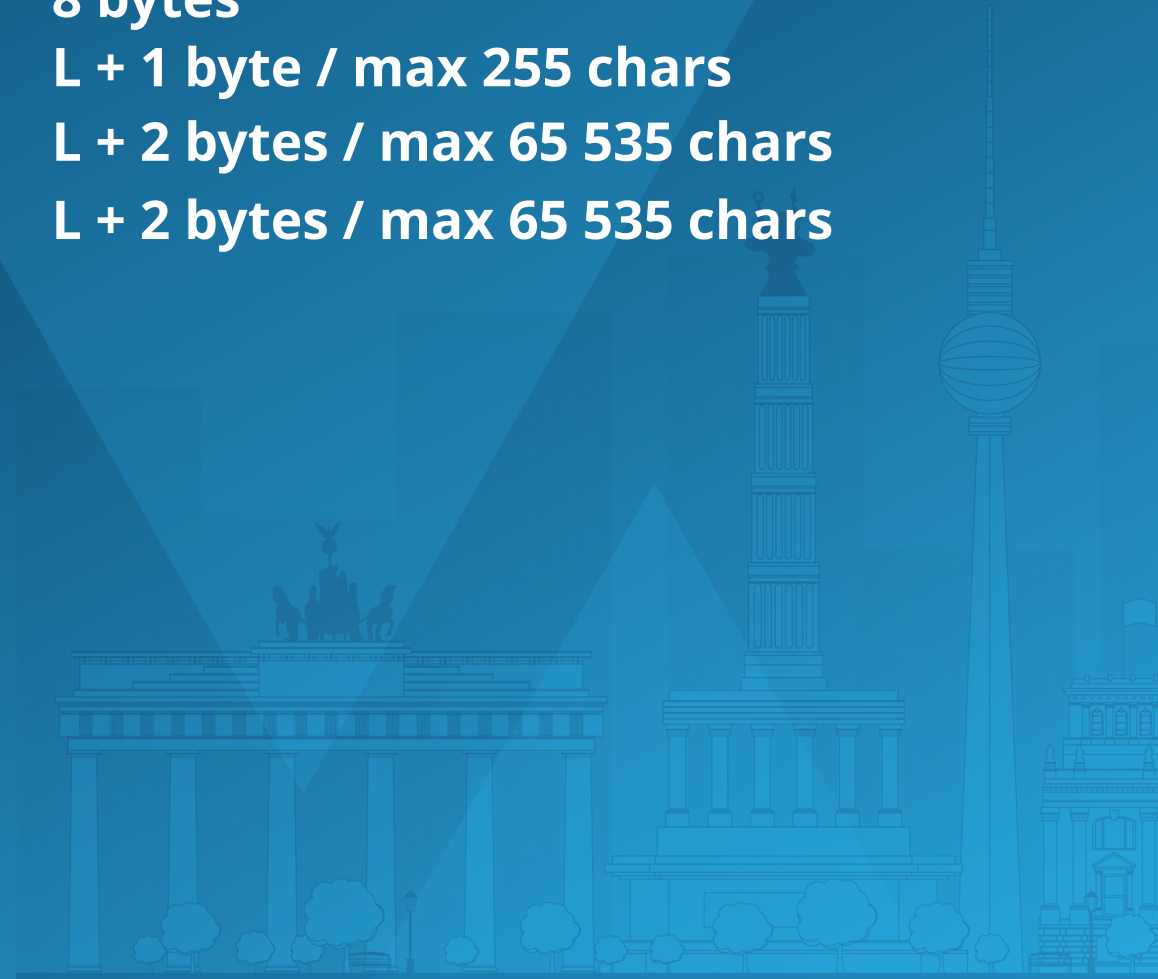
Latest data

Update Clone Execute now Test Clear history and trends Delete Cancel



# MySQL

Numeric (unsigned)	=>	<b>BIGINT UNSIGNED</b>	=>	8 bytes
Numeric (float)	=>	<b>DOUBLE</b>	=>	8 bytes
Character	=>	<b>VARCHAR(255)</b>	=>	L + 1 byte / max 255 chars
Log	=>	<b>text</b>	=>	L + 2 bytes / max 65 535 chars
Text	=>	<b>text</b>	=>	L + 2 bytes / max 65 535 chars





# MySQL

Numeric (unsigned)	=>	<b>BIGINT UNSIGNED</b>	=>	8 bytes
Numeric (float)	=>	<b>DOUBLE</b>	=>	8 bytes
Character	=>	<b>VARCHAR(255)</b>	=>	L + 1 byte / max 255 chars
Log	=>	<b>text</b>	=>	L + 2 bytes / max 65 535 chars
Text	=>	<b>text</b>	=>	L + 2 bytes / max 65 535 chars

# PostgreSQL

Numeric (unsigned)	=>	<b>Numeric(20)</b>	=>	2 bytes for each 4 digits + 3 to 8 bytes
Numeric (float)	=>	<b>DOUBLE PRECISION</b>	=>	8 bytes
Character	=>	<b>VARCHAR(255)</b>	=>	L + 1 byte / max 255 chars
Log	=>	<b>text</b>	=>	L + 2 bytes / max 65 535 chars
Text	=>	<b>text</b>	=>	L + 2 bytes / max 65 535 chars



\* Name Oracle: Get instance state

Type Database monitor

\* Key db.odb. get\_instance\_state, "Driver={ORACLE.DRIVER};DBQ=//(HOST.CON Select

Type of information Text

User name {\$ORACLE.USER}

Password {\$ORACLE.PASSWORD}

```
* SQL query
SELECT
INSTANCE_NAME,
HOST_NAME,
VERSION || '-' || EDITION AS VERSION,
floor((SYSDATE - startup_time)*60*60*24) AS UPTIME,
decode(status, 'STARTED', 1, 'MOUNTED', 2, 'OPEN', 3, 'OPEN
MIGRATE', 4, 0) AS STATUS,
```

\* Update interval {\$ORACLE.INTERVAL}

Type	Interval	Period	Action
Flexible	Scheduling	50s	1-7,00:00:00,4,0

Add

\* History storage period Do not keep history Storage period

Populates host inventory field -None-

Description

Enabled

Latest data

Update Clone Execute now Test Clear history and trends Delete Cancel



\* Name Oracle: Instance status

Type Dependent item

\* Key oracle.instance\_status Select

Type of information Numeric (unsigned)

\* Master item Oracle DB - Good: Oracle: Get instance state X Select

Units

\* History storage period Do not keep history Storage period 7d

\* Trend storage period Do not keep trends Storage period 365d

Value mapping type here to search Select

Populates host inventory field -None-

Description

Enabled

Latest data

Update Clone Execute now Test Clear history and trends Delete Cancel

# Value mapping





```
{“Status”: “3”}
```



```
{“Status”: “3”}
```

Api docs - status:

- 1 == 'STARTED'
- 2 == 'MOUNTED'
- 3 == 'OPEN'
- 4 == 'OPEN MIGRATE'



ODBC request



3

`{"Status": "3"}`

Api docs - status:  
1 == 'STARTED'  
2 == 'MOUNTED'  
3 == 'OPEN'  
4 == 'OPEN MIGRATE'



ODBC request

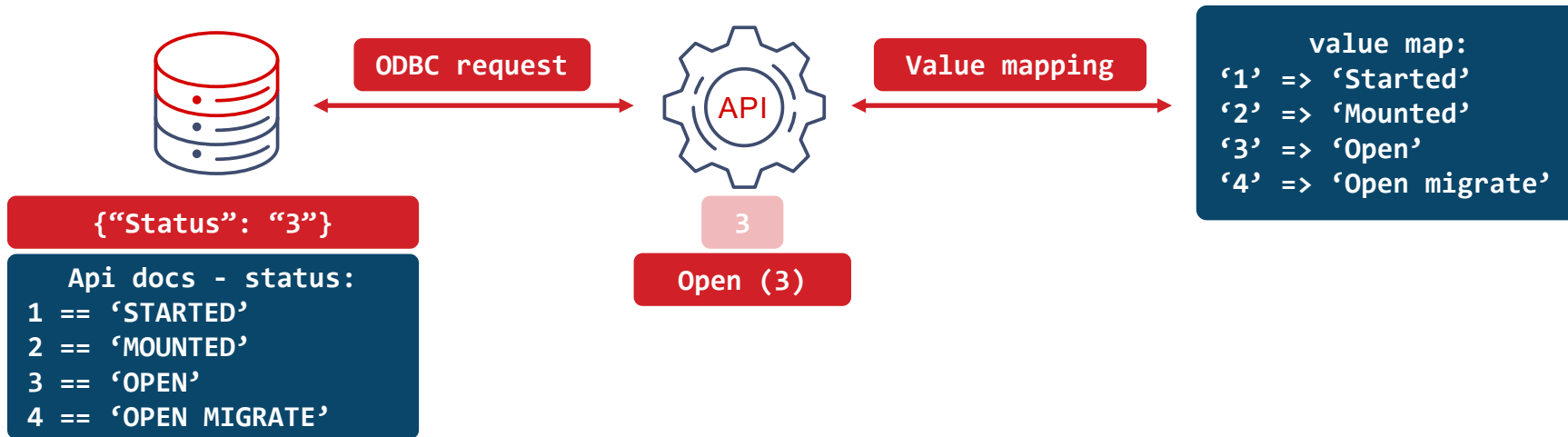


3

`{"Status": "3"}`

Api docs - status:

- 1 == 'STARTED'
- 2 == 'MOUNTED'
- 3 == 'OPEN'
- 4 == 'OPEN MIGRATE'





## Value mapping



\* Name

\* Mappings

Type	Value	Mapped to	Action
⋮ equals ▾	<input type="text" value="0"/>	⇒ <input type="text" value="Unknown"/>	<a href="#">Remove</a>
⋮ equals ▾	<input type="text" value="1"/>	⇒ <input type="text" value="Started"/>	<a href="#">Remove</a>
⋮ equals ▾	<input type="text" value="2"/>	⇒ <input type="text" value="Mounted"/>	<a href="#">Remove</a>
⋮ equals ▾	<input type="text" value="3"/>	⇒ <input type="text" value="Open"/>	<a href="#">Remove</a>
⋮ equals ▾	<input type="text" value="4"/>	⇒ <input type="text" value="Open migrate"/>	<a href="#">Remove</a>

[Add](#)

Update

Cancel

## Value mapping

\* Name

\* Mappings

Type	Value	Map
equals	0	Un
equals	1	Sta
equals	2	Mo
equals	3	Op
equals	4	Op

[Add](#)

Item Tags 1 Preprocessing 1

\* Name

Type

\* Key

Select

Type of information

\* Master item

Select

Units

\* History storage period

\* Trend storage period

Value mapping

Select

Populates host inventory field

Description

Enabled

Latest data

Update

Clone

Execute now

Test

Clear history and trends

Delete

Cancel

### Value mapping

\* Name Oracle instance status

#### \* Mappings

Type	Value	Map
equals	0	Un
equals	1	Sta
equals	2	Mo
equals	3	Op
equals	4	Op

Add

Item Tags 1 Preprocessing 1

\* Name Oracle: Instance status

Type Dependent item

\* Key oracle.instance\_status Select

(unsigned)

DB - Good: Oracle: Get instance state Select

Units

\* History storage period Do not keep history Storage period 7d

\* Trend storage period Do not keep trends Storage period 365d

Value mapping Oracle instance status ×

Populates host inventory field -None-

Description

Enabled

Latest data

Update Clone Execute now Test Clear history and trends Delete Cancel

### Value mapping

\* Name Oracle instance status

\* Mappings

Type	Value	Map
equals	0	Un
equals	1	Sta
equals	2	Mo
equals	3	Op
equals	4	Op

[Add](#)

Item Tags 1 Preprocessing 1

\* Name Oracle: Instance status

Type Dependent item

\* Key oracle.instance\_status

Select

Type of information Numeric (unsigned)

\* Master item Oracle DB - Good: Oracle: Get instance state

Select

Units

\* History storage period Do not keep history Storage period 7d

\* Trend storage period Do not keep trends Storage period 365d

Value mapping Oracle instance status

Select

Populates host inventory field -None-

Description

Enabled

Latest data

Update

Clone

Execute now

Test

Clear history and trends

Delete

Cancel



```
{“Status”: “physical standby”}
```



`{"Status": "physical standby"}`

ODBC request



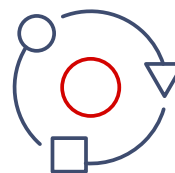
physical standby



ODBC request



Preprocessing



{“Status”: “physical standby”}

physical standby

```
const idx = [           // 10 - Unknown
  (default)
  'snapshot standby', // 0
  'logical standby',  // 1
  'physical standby', // 2
  'primary',          // 3
  'far sync'          // 4
].indexOf(value);
return idx !== -1 ? idx : 10;
```

“physical standby”



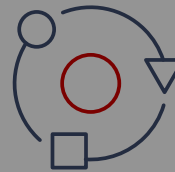
```
const idx = [          // 10 - Unknown
  (default)
  'snapshot standby', // 0
  'logical standby',  // 1
  'physical standby', // 2
  'primary',          // 3
  'far sync'          // 4
].indexOf(value);
return idx !== -1 ? idx : 10;
```



ODBC request



Preprocessing



{“Status”: “physical standby”}

physical standby

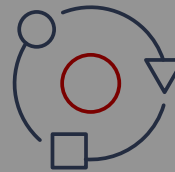




ODBC request



Preprocessing



{“Status”: “physical standby”}

physical standby

“physical standby”

```
const idx = [           // 10 - Unknown
  (default)
  'snapshot standby', // 0
  'logical standby',  // 1
  'physical standby', // 2
  'primary',          // 3
  'far sync'          // 4
].indexOf(value);
return idx !== -1 ? idx : 10;
```

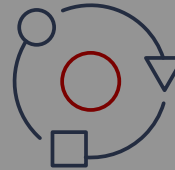
2



ODBC request



Preprocessing



{“Status”: “physical standby”}

physical standby

“physical standby” type: char

```
const idx = [ // 10 - Unknown
(default)
'snapshot standby', // 0
'logical standby', // 1
'physical standby', // 2
'primary', // 3
'far sync' // 4
].indexOf(value);
return idx !== -1 ? idx : 10;
```

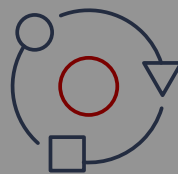
2 type: uint



ODBC request



Preprocessing



{“Status”: “physical standby”}

physical standby

“physical standby” type: char

```
const idx = [           // 10 - Unknown
  (default)
  'snapshot standby', // 0
  'logical standby',  // 1
  'physical standby', // 2
  'primary',          // 3
  'far sync'          // 4
].indexOf(value);
return idx !== -1 ? idx : 10;
```

2 type: uint

Character => VARCHAR(255) => L + 1 byte

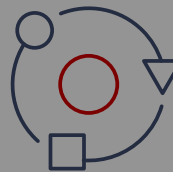
Numeric => BIGINT UNSIGNED => 8 bytes (unsigned)



ODBC request



Preprocessing



{“Status”: “physical standby”}

physical standby

“physical standby” type: char

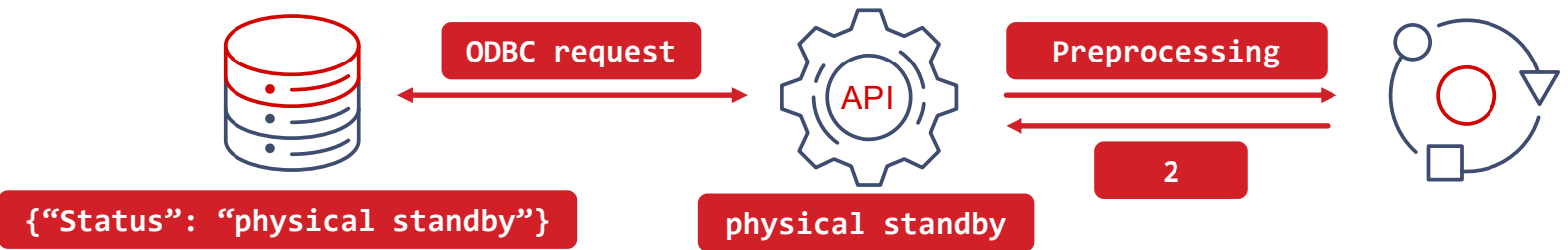
```
const idx = [           // 10 - Unknown
  (default)
  'snapshot standby', // 0
  'logical standby',  // 1
  'physical standby', // 2
  'primary',          // 3
  'far sync'          // 4
].indexOf(value);
return idx !== -1 ? idx : 10;
```

2 type: uint

Character => VARCHAR(255) => L + 1 byte

Numeric => BIGINT UNSIGNED => 8 bytes (unsigned)

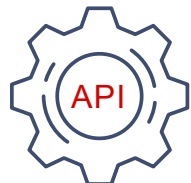
17 bytes => 8 bytes



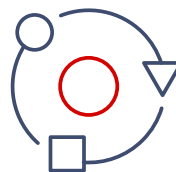
```
const idx = [          // 10 - Unknown
  (default)
  'snapshot standby', // 0
  'logical standby',  // 1
  'physical standby', // 2
  'primary',          // 3
  'far sync'          // 4
].indexOf(value);
return idx !== -1 ? idx : 10;
```



ODBC request



Preprocessing



{“Status”: “physical standby”}

physical standby

2

2

```
const idx = [           // 10 - Unknown
  (default)
  'snapshot standby', // 0
  'logical standby',  // 1
  'physical standby', // 2
  'primary',          // 3
  'far sync'          // 4
].indexOf(value);
return idx !== -1 ? idx : 10;
```

value map:  
'0' => 'Snapshot standby'  
'1' => 'Logical standby'  
'2' => 'Physical standby'  
'3' => 'Primary'  
'4' => 'Far sync'  
'10' => 'Unknown'

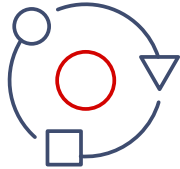
Value mapping



ODBC request



Preprocessing



{"Status": "physical standby"}

physical standby

2

2

```
const idx = [           // 10 - Unknown  
(default)  
  'snapshot standby', // 0  
  'logical standby',  // 1  
  'physical standby', // 2  
  'primary',          // 3  
  'far sync',         // 4  
return idx !== -1 ? idx : 10;
```

value map:  
'0' => 'Snapshot standby'  
'1' => 'Logical standby'  
'2' => 'Physical standby'  
'3' => 'Primary'  
'4' => 'Far sync'  
'10' => 'Unknown'

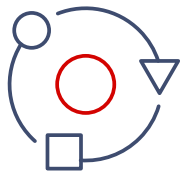
Value mapping



ODBC request



Preprocessing



{“Status”: “physical standby”}

physical standby

2

2

Physical standby (2)

```
const idx = [           // 10 - Unknown  
(default)  
  'snapshot standby', // 0  
  'logical standby',  // 1  
  'physical standby', // 2  
  'primary',          // 3  
  'far sync',         // 4  
return idx !== -1 ? idx : 10;
```





Filter

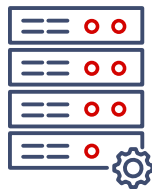
Template groups   Tags

Linked templates   tag  Contains

# SERVICE ACCESS TOKENS

Name	Hosts	Items	Triggers	Graphs	Dashboards	Discovery	Web	Vendor	Version	Linked templates	Linked to templates	Tags
<input type="checkbox"/> Acronis Cyber Protect Cloud by HTTP	Hosts	Items 1	Triggers	Graphs	Dashboards	Discovery 1	Web	Zabbix	7.0-0			class: application target: acronis target: cyber-protect-cl...
<input type="checkbox"/> Acronis Cyber Protect Cloud MSP by HTTP	Hosts	Items 9	Triggers	Graphs 1	Dashboards 1	Discovery 3	Web	Zabbix	7.0-0			class: application target: acronis target: cyber-protect-cl...
<input type="checkbox"/> AIX by Zabbix agent	Hosts	Items 44	Triggers 10	Graphs 4	Dashboards 1	Discovery 2	Web	Zabbix	7.0-0			class: os target: aix
<input type="checkbox"/> Alcatel Timetra TIMOS by SNMP	Hosts	Items 19	Triggers 9	Graphs 3	Dashboards 1	Discovery 6	Web	Zabbix	7.0-0			class: network target: alcatel target: alcatel-timetra
<input type="checkbox"/> Apache ActiveMQ by JMX	Hosts	Items	Triggers	Graphs	Dashboards 1	Discovery 2	Web	Zabbix	7.0-0			class: application target: apache-activemq
<input type="checkbox"/> Apache by HTTP	Hosts	Items	Triggers	Graphs 3	Dashboards	Discovery	Web	Zabbix	7.0-0			class: software target: apache
<input type="checkbox"/> Apache by Zabbix agent	Hosts	Items 43	Triggers 2	Graphs 3	Dashboards	Discovery 2	Web	Zabbix	7.0-0			class: software target: apache
<input type="checkbox"/> Apache Cassandra by JMX	Hosts	Items 67	Triggers 7	Graphs	Dashboards	Discovery	Web	Zabbix	7.0-0			class: database target: apache-cassa...
<input type="checkbox"/> Apache Kafka by JMX	Hosts	Items 62	Triggers 11	Graphs 9	Dashboards 1	Discovery 3	Web	Zabbix	7.0-0			class: application target: apache-kafka
<input type="checkbox"/> Apache Tomcat by JMX	Hosts	Items 1	Triggers 1	Graphs	Dashboards 1	Discovery 4	Web	Zabbix	7.0-0			class: software target: tomcat
<input type="checkbox"/> APC Smart-UPS 2200 RM by SNMP	Hosts	Items 26	Triggers 22	Graphs 3	Dashboards 1	Discovery 6	Web	Zabbix	7.0-0			class: power target: apc target: apc-smart-ups...
<input type="checkbox"/> APC Smart-UPS 3000 XLM by SNMP	Hosts	Items 26	Triggers 22	Graphs 3	Dashboards 1	Discovery 6	Web	Zabbix	7.0-0			class: power target: apc target: apc-smart-ups...
<input type="checkbox"/> APC Smart-UPS RT 1000 RM XL by SNMP	Hosts	Items 26	Triggers 22	Graphs 3	Dashboards 1	Discovery 6	Web	Zabbix	7.0-0			class: power target: apc target: apc-smart-ups...
<input type="checkbox"/> APC Smart-UPS RT 1000 XL by SNMP	Hosts	Items 26	Triggers 22	Graphs 3	Dashboards 1	Discovery 6	Web	Zabbix	7.0-0			class: power target: apc target: apc-smart-ups...
<input type="checkbox"/> APC Smart-UPS SRT 5000 by SNMP	Hosts	Items 26	Triggers 22	Graphs 3	Dashboards 1	Discovery 6	Web	Zabbix	7.0-0			class: power target: apc target: apc-smart-ups...
<input type="checkbox"/> APC Smart-UPS SRT 8000 by SNMP	Hosts	Items 26	Triggers 22	Graphs 3	Dashboards 1	Discovery 6	Web	Zabbix	7.0-0			class: power target: apc target: apc-smart-ups...
<input type="checkbox"/> APC UPS by SNMP	Hosts	Items 26	Triggers 22	Graphs 3	Dashboards 1	Discovery 6	Web	Zabbix	7.0-0			class: power target: apc
<input type="checkbox"/> APC UPS Galaxy 3500 by SNMP	Hosts	Items 26	Triggers 22	Graphs 3	Dashboards 1	Discovery 6	Web	Zabbix	7.0-0			class: power target: apc target: apc-ups-galaxy...
<input type="checkbox"/> APC UPS Symmetra LX by SNMP	Hosts	Items 26	Triggers 22	Graphs 3	Dashboards 1	Discovery 6	Web	Zabbix	7.0-0			class: power target: apc target: apc-ups-symm...
<input type="checkbox"/> APC UPS Symmetra RM by SNMP	Hosts	Items 26	Triggers 22	Graphs 3	Dashboards 1	Discovery 6	Web	Zabbix	7.0-0			class: power target: apc target: apc-ups-symm...
<input type="checkbox"/> APC UPS Symmetra RX by SNMP	Hosts	Items 26	Triggers 22	Graphs 3	Dashboards 1	Discovery 6	Web	Zabbix	7.0-0			class: power target: apc target: apc-ups-symm...
<input type="checkbox"/> Aranet Cloud	Hosts	Items 2	Triggers	Graphs	Dashboards	Discovery 21	Web	Zabbix	7.0-0			class: service target: aranet
<input type="checkbox"/> Arista by SNMP	Hosts	Items 14	Triggers 7	Graphs 1	Dashboards 1	Discovery 9	Web	Zabbix	7.0-0			class: network target: arista
<input type="checkbox"/> Asterisk by HTTP	Hosts	Items 26	Triggers 9	Graphs 4	Dashboards	Discovery 4	Web	Zabbix	7.0-0			class: voip target: asterisk





token: rv4UfFcXTGg00yd65RxV5CA6IODzMIct





token: rv4UfFcXtGg00yd65RxV5CA6IODzMIct

Template macros Inherited and template macros

Macro	Value	Description
{TOKEN}	.....	Access token for some service <a href="#">Remove</a>

[Add](#)

Add Cancel

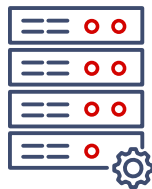
Headers

Name	Value
X-Auth-Token	{TOKEN} <a href="#">Remove</a>

[Add](#)



token: rv4UfFcXTGg00yd65RxV5CA6IODzMIct



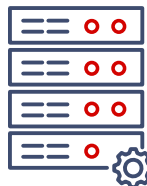
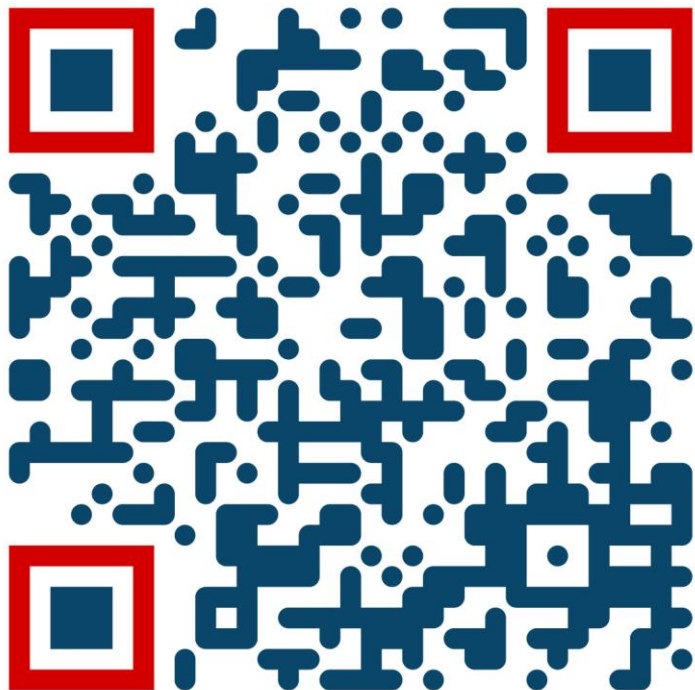
token: rv4UfFcXTGg00yd65RxV5CA6IODzMIct  
expires in 2h



token: rv4UfFcxTGg00yd65RxV5CA6IODzMIct  
expires in 2h

```
curl --request POST --url 'http://localhost:21644/api_jsonrpc.php' \  
--header 'Content-Type: application/json-rpc' \  
--header 'Authorization: Bearer 43563a9ed127bc8e43a5f252b6c9e68a' \  
--data '{"jsonrpc":"2.0","method":"usermacro.update",\  
"params":{"hostmacroid":"6305","type": "1", \  
"value":"rv4UfFcxTGg00yd65RxV5CA6IODzMIct"},"id":1}'
```





token: rv4UfFcxTGg00yd65RxV5CA6IODzMIct  
expires in 2h

```
curl --request POST --url 'http://localhost:21644/api_jsonrpc.php' \  
--header 'Content-Type: application/json-rpc' \  
--header 'Authorization: Bearer 43563a9ed127bc8e43a5f252b6c9e68a' \  
--data '{"jsonrpc":"2.0","method":"usermacro.update",\  
"params":{"hostmacroid":"6305","type": "1", \  
"value":"rv4UfFcxTGg00yd65RxV5CA6IODzMIct"},"id":1}'
```

## Template

```
{$APP.CRED.ID}: c78dSgh219An
```

```
{$APP.CRED.SECRET}: *****
```

## Template

```
{$APP.CRED.ID}: c78dSgh219An
```

```
{$APP.CRED.SECRET}: *****
```

## Items

### Get services

```
{
  "auth": {
    "identity": {
      "methods": [
        "application_credential"
      ],
      "application_credential": {
        "id": "{$APP.CRED.ID}",
        "secret": "{$APP.CRED.SECRET}"
      }
    }
  }
}
```

```
[
  {
    "name": "compute",
    "url": "https://some.service.api/api/v2/compute",
    "token": "rv4UfFcXTGg00yd65RxV5CA6IODzMIct"
  },
  {
    "name": "storage",
    "url": "https://some.service.api/api/v2/storage",
    "token": "VpuueiE76Uvtm1BYgvTH2tBEtdJtFfDy"
  }
]
```

## Items

### Get services

```
{
  "auth": {
    "identity": {
      "methods": [
        "application_credential"
      ],
      "application_credential": {
        "id": "${APP.CRED.ID}",
        "secret": "${APP.CRED.SECRET}"
      }
    }
  }
}
```

```
[
  {
    "name": "compute",
    "url": "https://some.service.api/api/v2/compute",
    "token": "rv4UfFcXTGg00yd65RxV5CA6IODzMIct"
  },
  {
    "name": "storage",
    "url": "https://some.service.api/api/v2/storage",
    "token": "VpuueiE76Uvtm1BYgvTH2tBEtdJtFfDy"
  }
]
```

## LLD

{#SERVICE\_NAME}

\$.name

{#SERVICE\_URL}

\$.url

{#SERVICE\_TOKEN}

\$.token

## Host prototypes

Host name: Service {#SERVICE\_NAME}

{#SERVICE.URL}

{#SERVICE\_URL}

{#SERVICE.TOKEN}

{#SERVICE\_TOKEN}

## Host



Host IPMI Tags **Macros 2** Inventory Encryption

Host macros Inherited and host macros

Macro	Value		Description
{SERVICE.TOKEN}	rv4UfFcXTGg00yd65RxV5 CA6IODzMIct	T ▾	description <a href="#">Change</a> <a href="#">Remove</a> (created by host discovery)
{SERVICE.URL}	https://some.service.api/ap i/v2/compute	T ▾	description <a href="#">Change</a> <a href="#">Remove</a> (created by host discovery)

[Add](#)

[Update](#) [Clone](#) [Full clone](#) [Delete](#) [Cancel](#)

[Service discovery: Service compute](#)

[Service discovery: Service storage](#)

[Service X](#)

## Host



Host IPMI Tags **Macros 2** Inventory Encryption

Host macros Inherited and host macros

Macro	Value		Description
{SERVICE.TOKEN}	VpuueiE76Uvtm1BYgvTH 2tBEtdJtFfDy	T ▾	description <a href="#">Change</a> <a href="#">Remove</a> (created by host discovery)
{SERVICE.URL}	https://some.service.api/ap i/v2/storage	T ▾	description <a href="#">Change</a> <a href="#">Remove</a> (created by host discovery)

[Add](#)

[Update](#) [Clone](#) [Full clone](#) [Delete](#) [Cancel](#)

```
[
  {
    "name": "compute",
    "url": "https://some.service.api/api/v2/compute",
    "token": "rv4UfFcxTGg00yd65RxV5CA6IODzMIct"
  },
  {
    "name": "storage",
    "url": "https://some.service.api/api/v2/storage",
    "token": "VpuueiE76Uvtm1BYgvTH2tBEtdJtFfDy"
  }
]
```

## Host

Host IPMI Tags Macros 2 Inventory Encryption

Host macros Inherited and host macros

Macro	Value		Description
<code>{SERVICE.TOKEN}</code>	rv4UfFcxTGg00yd65RxV5CA6IODzMIct	T ▾	description
<code>{SERVICE.URL}</code>	https://some.service.api/api/v2/compute	T ▾	description

[Add](#)

Update

## Host

Host IPMI Tags Macros 2 Inventory Encryption

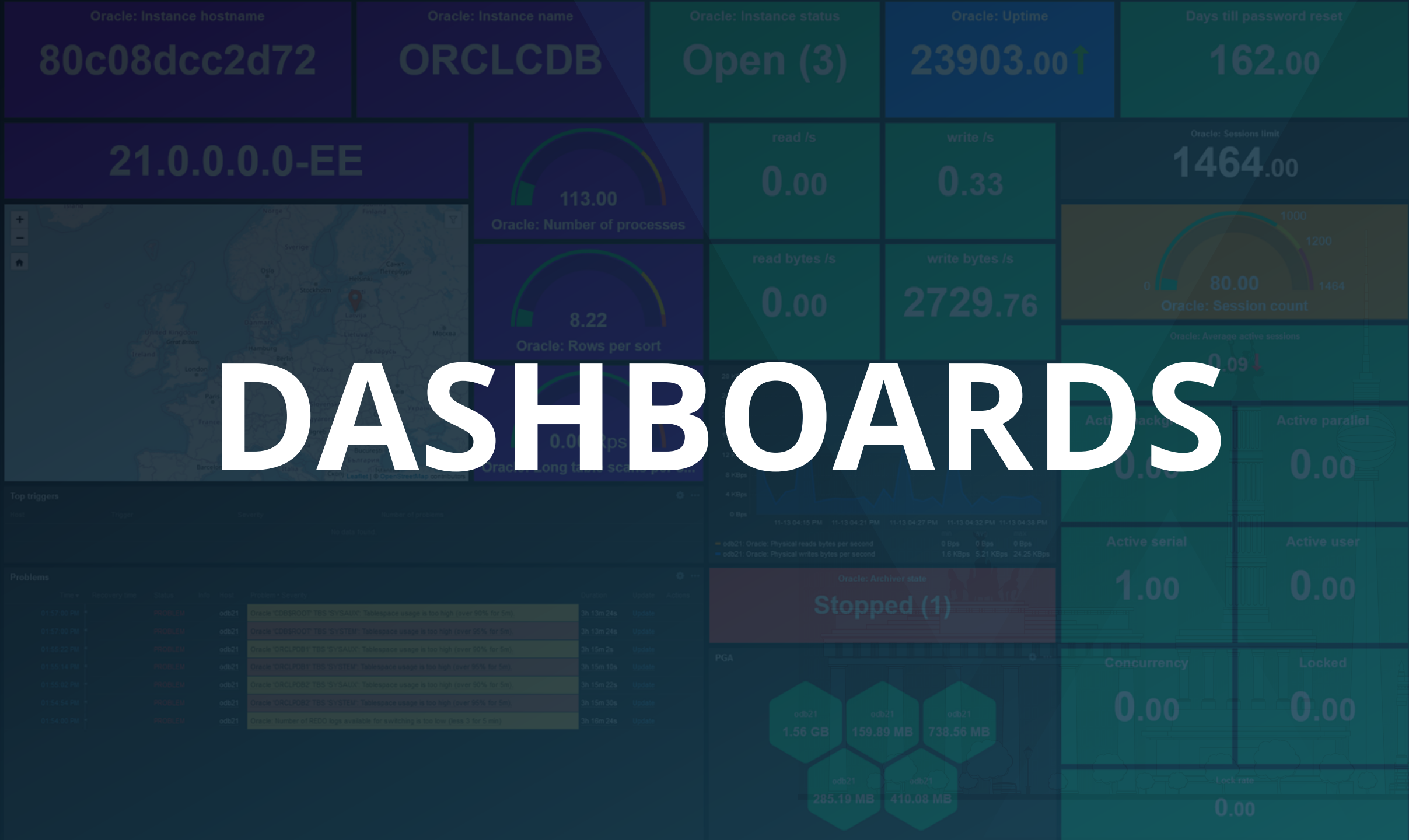
Host macros Inherited and host macros

Macro	Value		Description
<code>{SERVICE.TOKEN}</code>	VpuueiE76Uvtm1BYgvTH2tBEtdJtFfDy	T ▾	description
<code>{SERVICE.URL}</code>	https://some.service.api/api/v2/storage	T ▾	description

[Add](#)

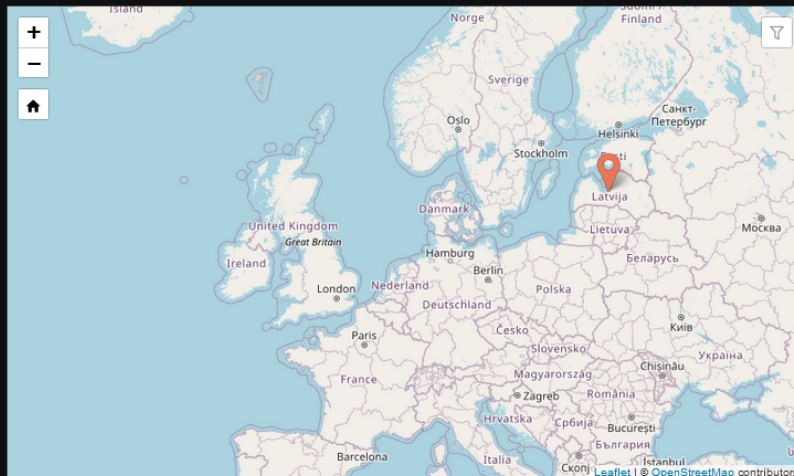
Update

# DASHBOARDS



Oracle: Instance hostname <b>80c08dcc2d72</b>	Oracle: Instance name <b>ORCLCDB</b>	Oracle: Instance status <b>Open (3)</b>	Oracle: Uptime <b>23903.00</b> ↑	Days till password reset <b>162.00</b>
--	---	--	-------------------------------------	---

**21.0.0.0-EE**



Oracle: Number of processes  
**113.00**

read /s  
**0.00**

write /s  
**0.33**

Oracle: Sessions limit  
**1464.00**

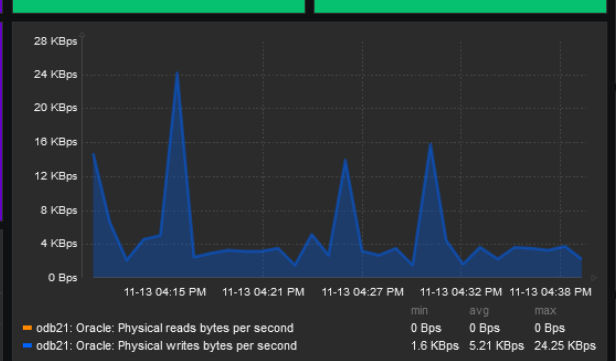
Oracle: Rows per sort  
**8.22**

read bytes /s  
**0.00**

write bytes /s  
**2729.76**

Oracle: Session count  
**80.00**

Oracle: Long table scans per s...  
**0.00 Rps**



Oracle: Average active sessions  
**0.09** ↓

Active background  
**0.00**

Active parallel  
**0.00**

Top triggers

Host	Trigger	Severity	Number of problems
No data found.			

Problems

Time	Recovery time	Status	Info	Host	Problem * Severity	Duration	Update	Actions
01:57:00 PM		PROBLEM	odb21	Oracle 'CDB\$ROOT' TBS 'SYS_AUX': Tablespace usage is too high (over 90% for 5m).	3h 13m 24s	Update		
01:57:00 PM		PROBLEM	odb21	Oracle 'CDB\$ROOT' TBS 'SYSTEM': Tablespace usage is too high (over 95% for 5m).	3h 13m 24s	Update		
01:55:22 PM		PROBLEM	odb21	Oracle 'ORCLPDB1' TBS 'SYS_AUX': Tablespace usage is too high (over 90% for 5m).	3h 15m 2s	Update		
01:55:14 PM		PROBLEM	odb21	Oracle 'ORCLPDB1' TBS 'SYSTEM': Tablespace usage is too high (over 95% for 5m).	3h 15m 10s	Update		
01:55:02 PM		PROBLEM	odb21	Oracle 'ORCLPDB2' TBS 'SYS_AUX': Tablespace usage is too high (over 90% for 5m).	3h 15m 22s	Update		
01:54:54 PM		PROBLEM	odb21	Oracle 'ORCLPDB2' TBS 'SYSTEM': Tablespace usage is too high (over 95% for 5m).	3h 15m 30s	Update		
01:54:00 PM		PROBLEM	odb21	Oracle: Number of REDO logs available for switching is too low (less 3 for 5 min)	3h 16m 24s	Update		

Oracle: Archiver state  
**Stopped (1)**



Active serial  
**1.00**

Active user  
**0.00**

Concurrency  
**0.00**

Locked  
**0.00**

Lock rate  
**0.00**





Oracle Database 'ORCLCDB': Open status

# Read-Write (3)

Oracle Database 'ORCLPDB1': Open status

# Read-Write (3)

Oracle Database 'ORCLPDB2': Open status

# Read-Write (3)

ORCLCDB teablespace status



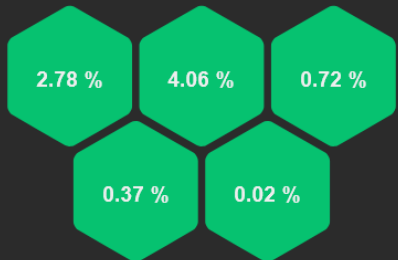
ORCLCDB teablespace status



ORCLCDB teablespace status



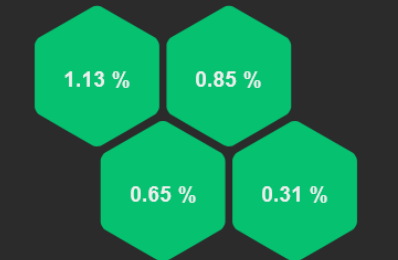
Tablespace allocated, percent



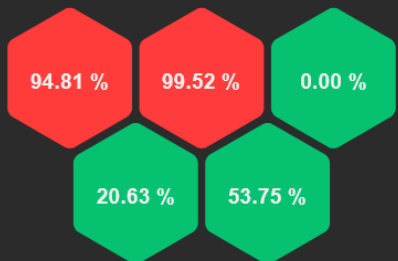
Tablespace allocated, percent



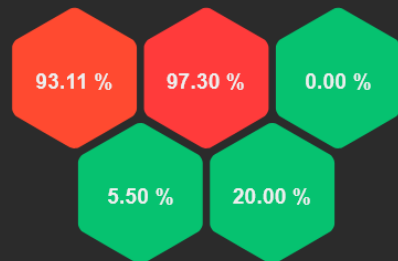
Tablespace allocated, percent



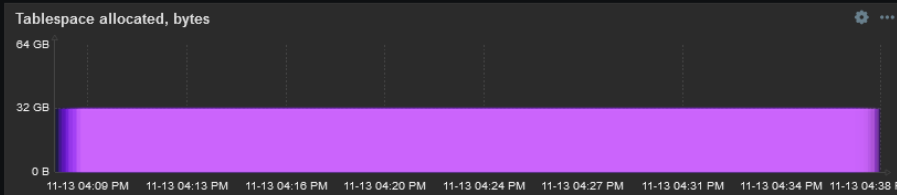
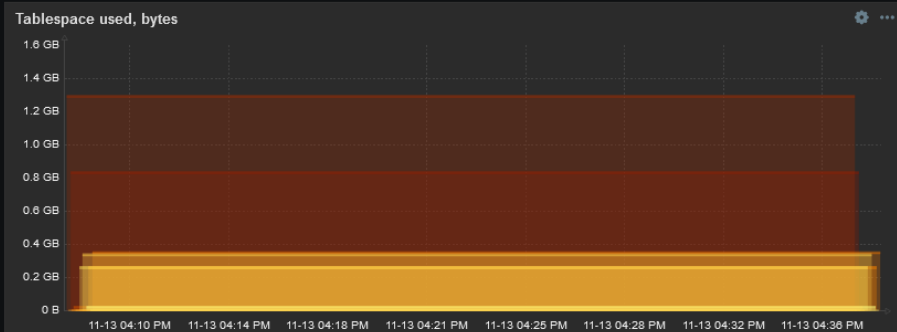
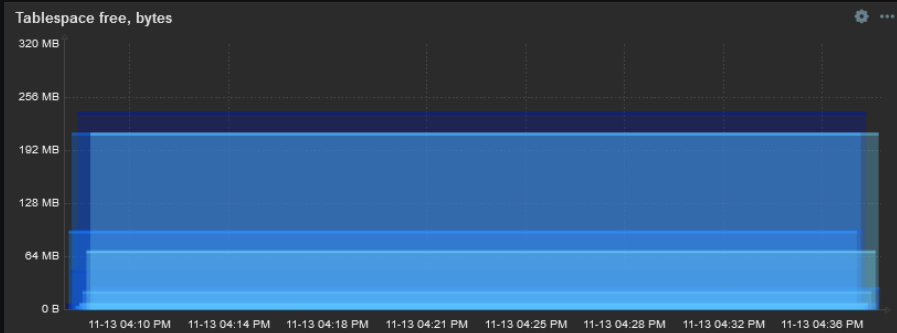
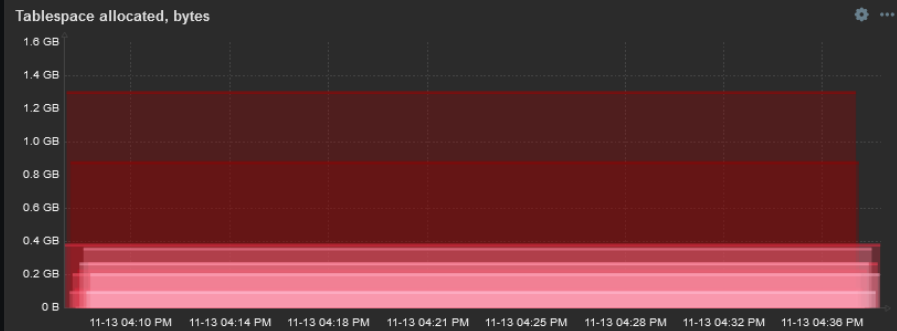
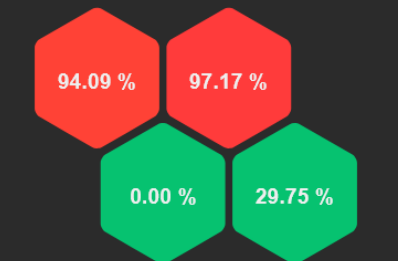
Tablespace usage, percent



Tablespace usage, percent



Tablespace usage, percent



**ZABBIX** '23

CONFERENCE

GERMANY

Thank you!

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**Kristaps Naglis**  
Integration Engineer

