

09. – 12.12.2019  
Frankfurt am Main

#ittage



Markus Flechtner

OraChk

DB-configuration-check and -management

# OraChk

Database Configuration-Check and -Management

Markus Flechtner

Now included in the  
Autonomous Health Framework



@markusdba



[www.markusdba.net|.de](http://www.markusdba.net|.de)

BASEL | BERN | BRUGG | BUCHAREST | DÜSSELDORF | FRANKFURT A.M. | FREIBURG I.BR. | GENEVA  
HAMBURG | COPENHAGEN | LAUSANNE | MANNHEIM | MUNICH | STUTTGART | VIENNA | ZURICH

**trivadis**

# Markus Flechtner

- Principal Consultant, Trivadis, Düsseldorf
- Oracle since 1990: Development, Support, DBA
- Focus: RAC, HA, Upgrade + Migration
- Teacher: RAC, New Features, Multitenant, PostgreSQL
- Co-Author of the book "Der Oracle DBA" (Hanser, 2016)



@markusdba



[www.markusdba.net|.de](http://www.markusdba.net|.de)



DOAG

BASEL | BERN | BRUGG | BUKAREST | DÜSSELDORF | FRANKFURT A.M. | FREIBURG I.B.R. | GENÈVE  
HAMBURG | KOPENHAGEN | LAUSANNE | MANNHEIM | MÜNCHEN | STUTTGART | WIEN | ZÜRICH

**trivadis**


FOUNDED IN  
**1994**

**250 SLA's**  
(SERVICE LEVEL AGREEMENTS)

 **700**  
**EMPLOYEES**

 **16** **TRIVADIS**  
**WORKSPACES**  
SWITZERLAND, GERMANY,  
AUSTRIA, DENMARK,  
ROMANIA

**4000**   
**TRAINING PARTICIPANTS PER YEAR**

**5** **MILLION**  
**CHF**   
**BUDGET FOR SCIENCE**  
**AND DEVELOPMENT PER YEAR**

**trivadis**

**118** **MILLION**  
**CHF**  
**TURNOVER** 

**800**   
**CUSTOMERS**

**1900** **PER**  
**YEAR**  
**PROJECTS**

28.11.19

OraChk - Database Configuration -Check and -Management

**trivadis**





trivadis

# Agenda

- What's OraChk?
- Availability & Installation
- Configuration Check
- MAA Check
- Collection Manager
- Add your own checks
- Summary & Further Information

# What's OraChk?

# Introduction

- Available since July 2011
- Current version 19.3.2 (November 2019)
- Formerly known as "RACCheck"
- Supported on Unix, Linux and Windows
- **Checks your installation against more than 1.300 Oracle Best Practices**
  - `Audit_Checks_Report_Orachk.html` contains a list of all checks
- Additional user defined checks are possible
- ExaChk is a similar tool for Exadata
- Python based

# OraChk includes checks for ..

- Oracle Engineered Systems
- Oracle Database Appliance
- Oracle ASR
- Oracle Database
  - **Single-instance Oracle Database**
  - Oracle Grid Infrastructure and Oracle RAC
  - **Maximum Availability Architecture (MAA) validation**
  - Upgrade Readiness validation
  - Oracle GoldenGate
  - Application Continuity
- Enterprise Manager Cloud Control (12c only)
- Oracle Identity and Access Management
- Oracle Hardware Systems
- Oracle Siebel
- Oracle PeopleSoft

# Demo

(show list of predefined checks)  
[ORAchk\\_Health\\_Check\\_Catalog.html](#)

# Example Report (1)

## Oracle ORAchk Assessment Report

**System Health Score is 88 out of 100 [\(detail\)](#)**

### Summary

OS/Kernel Version	LINUX X86-64 OELRHHEL 7 4.14.35-1902.7.3.1.el7uek.x86_64
DB Home - Version - Names	/u00/app/oracle/product/19.0.0.0 - 19.0.0.0.0 - 3 databases
Database Server	ittage
ORAchk Version	19.2.0_20190717
Collection	orachk ittage PITTAGE2 112719 224034

Duration
Executed by
Arguments
Collection Date

### Database Server

Status	Type	Message	Status On	Details
<b>CRITICAL</b>	OS Check	Operating system hugepages count does not satisfy total SGA requirements	All Database Servers	<a href="#">View</a>
<b>CRITICAL</b>	OS Check	Temporary location is not configured for auto cleanup	All Database Servers	<a href="#">View</a>
<b>FAIL</b>	SQL Check	Table AUD\$[FGA_LOG\$] should use Automatic Segment Space Management	All Databases	<a href="#">View</a>



# Example Report (2) - Details

Database Server				
Status	Type	Message	Status On	Details
CRITICAL	OS Check	Operating system hugepages count does not satisfy total SGA requirements	All Database Servers	<a href="#">Hide</a>
Verify operating system hugepages count satisfies total SGA requirements				
Recommendation	Benefit / Impact:			
	<p>Properly configuring operating system hugepages on Linux and using the database initialization parameter "use_large_pages" to "only" results in more efficient use of memory and reduced paging.</p> <p>The impact of validating that the total current hugepages are greater than or equal to estimated requirements for all currently active SGAs is minimal. The impact of corrective actions will vary depending on the specific configuration, and may require a reboot of the database server.</p>			
	Risk:			
	<p>The risk of not correctly configuring operating system hugepages in advance of setting the database initialization parameter "use_large_pages" to "only" is that if not enough huge pages are configured, some databases will not start after you have set the parameter.</p>			
Recommendation	Action / Repair:			
	<p>Pre-requisite: All database instances that are supposed to run concurrently on a database server must be up and running for this check to be accurate.</p>			
	<p>NOTE: Please refer to below referenced My Oracle Support notes for additional details on configuring hugepages.</p>			

# Availability & Installation

# Availability

- OraChk is available
  - As part of an RDBMS software installation (\$ORACLE\_HOME/suptools/orachk)
  - As part of an GI software installation (\$GI\_HOME/suptools/orachk)
  - As part of the "Autonomous Health Framework" (AHF) – since October 2019
- OraChk was available
  - As standalone download
  - As part of the "Support Tools Bundle" (delivered with TFA) } Now included in AHF
- Current version:
  - 19.3.2 (as part of AHF)
  - 19.2.0\_20190717 (when upgrading the "RDBMS orachk")  
– no higher version available



# Upgrade (when part of the RDBMS-SW)

- When started, OraChk checks its age and can install (and even download) a new version

```
oracle@ittage:/u00/app/oracle/product/19.0.0.0/suptools/orachk/ [rdbms19000] ./orachk
Running orachk
[...]
```

**This version of orachk was released on 29-Nov-2018 and its older than 180 days.** No new version of orachk is available in RAT\_UPGRADE\_LOC. It is highly recommended that you download the latest version of orachk from my oracle support to ensure the highest level of accuracy of the data contained within the report.

Do you want to download latest version from my oracle support? [y/n] [y] y

Enter your my oracle support username:- markus.flechtner@trivadis.com  
Enter your my oracle support password:-  
Started downloading...

orachk.zip is successfully downloaded to /u00/app/oracle/orachk//orachk\_112719\_224034/location!

Do you want to upgrade to the latest version of orachk? [y/n][y]  
[...]

# Installation (AHF) (1)

- Autonomous Health Framework (AHF) consists of
  - OraChk
  - TFA + Support Tools Bundle
  - Its own JRE (for TFA)

Separate talk

Why?

- Install complete Autonomous Health Framework (about 1 GB disk space required)
  - Installation as root recommended

```
root# ./ahf_setup
```

- Install OraChk only

```
Oracle> ./ahf_setup -extract orachk
```

## Installation (AHF) (2)

- During the installation you have to specify
  - The location of the AHF software (\$AHF\_HOME, default /opt/oracle.ahf)
  - The location of the results (reports etc.) – 5 GB free disk space required
- Executables in \$AHF\_HOME/bin:

```
root@ittage:/opt/oracle.ahf/bin/ [rdbms19000] ls -al
total 8
drwxr-xr-x.  2 root root   34 Nov 27 23:46 .
drwxr-xr-x. 11 root root 4096 Nov 27 23:46 ..
lrwxrwxrwx.  1 root root   29 Nov 27 23:46 orachk ->
/opt/oracle.ahf/orachk/orachk
-rwxr-xr-x.  1 root root 3296 Nov 27 23:46 tfactl
```

# Daemon Mode (1)

- Orachk can run in "daemon mode" and can perform regular checks automatically

```
root@ittage:/opt/oracle.ahf/bin/ [rdbms19000] ./orachk -d -h
-d
        Used for daemon related options.
Eg:
    ./orachk -d start          : Starts the daemon
    ./orachk -d stop           : Stops the daemon
    ./orachk -d info           : Displays details about the
daemon. [...]
    ./orachk -d stop_client    : Forces a running daemon
client to stop.
    ./orachk -d nextautorun    : Displays details about when
the next scheduled automatic run occurs.
    ./orachk -d status         : Checks the current status
[...]
```



## Daemon Mode (2) - Example

```
root@ittage:/opt/oracle.ahf/bin/ [rdbms19000] ./orachk -d start
```

```
This computer is for [S]ingle instance database or part of a [C]luster to  
run RAC database [S|C] [C]: S
```

```
[ ... perform a "manual run" for daemon configuration]
```

```
orachk daemon is started with PID : 4104
```

```
Daemon log file location is :
```

```
/opt/oracle.ahf/data/ittage/orachk/orachk_daemon.log
```

```
root@ittage:/opt/oracle.ahf/bin/ [rdbms19000] ./orachk -d status
```

```
orachk daemon is running. Daemon PID: 4104
```

```
root@ittage:/opt/oracle.ahf/bin/ [rdbms19000] ps -af |grep 4104
```

```
root      4104      1  1 08:24 pts/0      00:00:08
```

```
/opt/oracle.ahf/python/bin/python /opt/oracle.ahf/orachk/orachk.pyc -  
start_scheduler -scheduler_daemon 1
```

## Daemon Mode (3) – Define Schedule

- Among other settings, the schedule for the automated checks can be specified with a crontab-like syntax
- Format:
  - Minute
  - Hour
  - Day
  - Month
  - Day of Week
- Example: (2 AM every Saturday)

```
root@ittage:/ ./orachk -set "AUTORUN_SCHEDULE=0 2 * * 6"
```

# Configuration Check

# Run a Manual Check (1)

- Running as "root" recommended,
- "oracle" cannot perform all checks

```
root@ittage:/home/oracle/ [rdbms19000] /opt/oracle.ahf/bin/orachk

This computer is for [S]ingle instance database or part of a [C]luster to run RAC database [S|C] [C]: S

List of running databases
1. CITTAGE
2. None of above

Select databases from list for checking best practices. For multiple databases, select 1 for All or
comma separated number like 1,2 etc [1-2][1]. 1

Checking Status of Oracle Software Stack - Clusterware, ASM, RDBMS

-----
                                Oracle Stack Status
-----
Host Name      CRS Installed    ASM HOME  RDBMS Installed  CRS UP   ASM UP   RDBMS UP   DB
Instance Name
-----
      ittage                No          No           Yes           No       No        Yes
CITTAGE
-----
```

## Run a Manual Check (2)

```
[...]
Collecting - Database Parameters for CITTAGE database
Collecting - Database Undocumented Parameters for CITTAGE database
Collecting - RDBMS Feature Usage for CITTAGE database
Collecting - CPU Information
Collecting - Disk I/O Scheduler on Linux
Collecting - DiskMount Information
Collecting - Kernel parameters
Collecting - Maximum number of semaphore sets on system
Collecting - Maximum number of semaphores on system
Collecting - Maximum number of semaphores per semaphore set
Collecting - Memory Information
Collecting - OS Packages
Collecting - Operating system release information and kernel version
Collecting - Patches for RDBMS Home
Collecting - Table of file system defaults
Collecting - number of semaphore operations per semop system call
Collecting - Disk Information
Collecting - ORAchk Daemon/Scheduler configuration
Collecting - Root user limits
Collecting - Verify no database server kernel out of memory errors
[...]
```

# Run a Manual Check (3)

Data collections completed. Checking best practices on ittage.

```
-----
INFO => Most recent ADR incidents for /u00/app/oracle/product/19.0.0.0
INFO => Oracle GoldenGate failure prevention best practices
CRITICAL => ORAchk Daemon/Scheduler is not configured correctly
CRITICAL => Temporary location is not configured for auto cleanup
WARNING => One or more redo log groups are not multiplexed for CITTAGE
WARNING => Primary database is not protected with Data Guard (standby database) for real-time data protection and
availability for CITTAGE
INFO => Important Storage Minimum Requirements for Grid & Database Homes
CRITICAL => Operating system hugepages count does not satisfy total SGA requirements
FAIL => Database parameter DB_LOST_WRITE_PROTECT is not set to recommended value on CITTAGE instance
INFO => umask for RDBMS owner is not set to 0022
WARNING => Database parameter DB_BLOCK_CHECKING on PRIMARY is NOT set to the recommended value. for CITTAGE
INFO => Operational Best Practices
INFO => Database Consolidation Best Practices
INFO => Computer failure prevention best practices
INFO => Data corruption prevention best practices
INFO => Logical corruption prevention best practices
INFO => Database/Cluster/Site failure prevention best practices
INFO => Client failover operational best practices
WARNING => Oracle clusterware is not being used
WARNING => RAC Application Cluster is not being used for database high availability on CITTAGE instance
WARNING => DISK_ASYNCH_IO is NOT set to recommended value for CITTAGE
FAIL => Table AUD$[FGA_LOG$] should use Automatic Segment Space Management for CITTAGE
FAIL => Table AUD$[FGA_LOG$] should use Automatic Segment Space Management for PITTAGE1
FAIL => Table AUD$[FGA_LOG$] should use Automatic Segment Space Management for PITTAGE2
```

# Demo

(show result of OraChk)

[orachk\\_ittage\\_PITTAGE2\\_112719\\_224034.html](#)



# Run a Manual Check – CLI options (excerpt)

Parameter	meaning
-a	run all checks
-m	Disable MAA checks
-preupgrade / -postupgrade	Run pre-/post upgrade checks (use additional "-t" to specify the target version)
-b	Best-Practices Checks only, no patch recommendations
-p	Patch recommendations only
-dball -dbnames	run checks for all databases run check for a specific database
-diff	compare two orachk reports
-profile	choose the component you want to check "asm, dba, goldengate, .." and more

# Collection Manager

# Collection Manager (Overview)

- ORAchk results can be stored in a repository database
- Collection Manager is a GUI for the repository database
- APEX 5 (or higher) application
- "Apex5\_CollectionManager\_App.sql" is included with OraChk to install the APEX application
  
- The database running Collection Manager must be licensed
- But you can use Oracle XE (Oracle Database 18c Express Edition)

# Collection Manager – Features

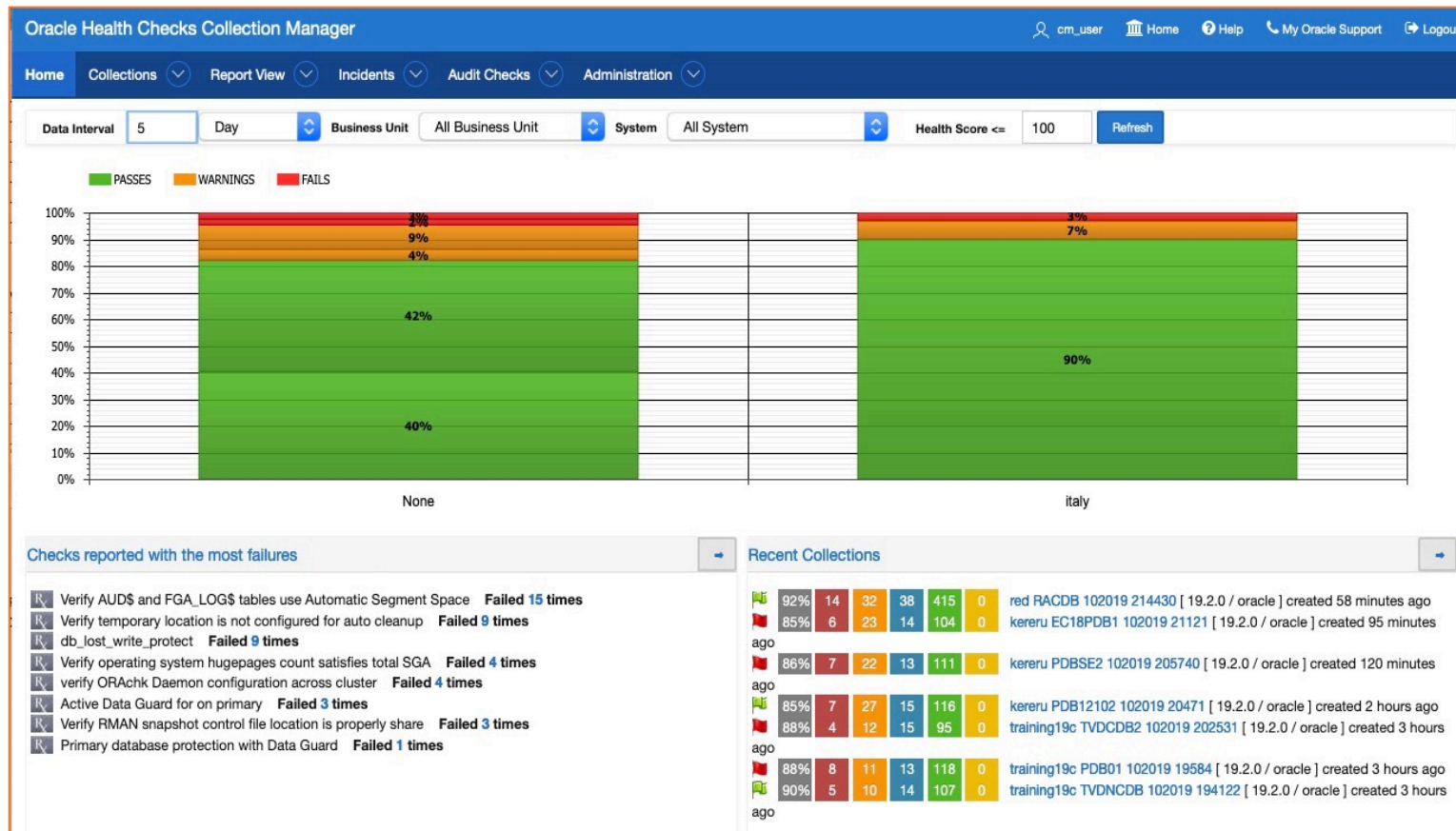
- Status Overview for all databases
- Compare different databases
- Compare different OraChk runs of a single database
- Create additional checks
- Define profiles (= customized set of checks)
- Create incidents (i.e. tasks resulting on OraChk results)

# Configure Database Upload for OraChk

```
oracle@ittage:/u00/app/oracle/ ./orachk -setdbupload all
Running orachk
-----
PATH                  : /u00/app/oracle/product/19.0.0.0/suptools/orachk
VERSION               : 19.2.0_20190717
COLLECTIONS DATA LOCATION : /u00/app/oracle/orachk/
-----
Enter value for RAT_UPLOAD_CONNECT_STRING: 192.168.1.113:1521/apexpdb
Enter value for RAT_UPLOAD_PASSWORD: *****
Database upload parameters successfully stored in orachk wallet. Run will keep
uploading the collections in database until it is unset using ./orachk -unsetdbupload
all/<env variable name>

oracle@ittage:/u00/app/oracle/ [CITTAGE] ./orachk -checkdbupload
Running orachk
-----
PATH                  : /u00/app/oracle/product/19.0.0.0/suptools/orachk
VERSION               : 19.2.0_20190717
COLLECTIONS DATA LOCATION : /u00/app/oracle/orachk/
-----
Configuration is good to upload result to database.
```

# Collection Manager – Screenshots (1)



# Collection Manager – Screenshots (2)

Home Collections Report View Incidents Audit Checks Administration

Data Interval: 5 Day Business Unit: DEVELOPMENT System: All System Health Score <= 100 Refresh

Filters Apply Filters Reset Page

Collection Name: kerneru EC18PDB1 102019 21121 Status: -- Select Status -- Host Name: -- Select Host -- Search ( Searches "Check Name" Column)

DB Version: 180000 Platform: -- Select OS Platform -- DB Name: Search By Check Id

Collection Details

Patch Results

Audit checks Ignore Selected Undo Ignore Raise Ticket On Collection HTML Report

1 - 126

Check Name	Status	Status Message	Hostname	Instance Name	Database Name
Verify AUD\$ and FGA_LOG\$ tables use Automatic Segment Space Management	FAIL	Table AUD\$(FGA_LOG\$) should use Automatic Segment Space Management for EC18	kerneru	NA	EC18
Verify AUD\$ and FGA_LOG\$ tables use Automatic Segment Space Management	FAIL	Table AUD\$(FGA_LOG\$) should use Automatic Segment Space Management for EC18PDB1	kerneru	NA	EC18PDB1
Flashback database on primary	WARNING	Flashback on PRIMARY is not configured for EC18	kerneru	NA	EC18
undo_management	INFO-PASS	Instance is using Automatic Undo Management on instance	kerneru		EC18
Database failure prevention best practices	INFO	Database failure prevention best practices	kerneru	NA	
fast_start_mtr_target	WARNING	fast_start_mtr_target has NOT been changed from default on instance	kerneru		EC18
Archivelog Mode	WARNING	Database Archivelog Mode should be set to ARCHIVELOG for EC18	kerneru	NA	EC18
Default Temporary Tablespace	PASS	Default temporary tablespace is set for EC18	kerneru	NA	EC18
Automatic segment storage management	PASS	All tablespaces are using Automatic segment storage management for EC18	kerneru	NA	EC18
Automatic segment storage management	PASS	All tablespaces are using Automatic segment storage management for EC18PDB1	kerneru	NA	EC18PDB1
Locally managed tablespaces	PASS	All tablespaces are locally managed tablespace for EC18	kerneru	NA	EC18
Locally managed tablespaces	PASS	All tablespaces are locally managed tablespace for EC18PDB1	kerneru	NA	EC18PDB1
Database Statistics level	PASS	STATISTICS_LEVEL is set to recommended value for EC18	kerneru	NA	EC18
Database timed statistics	PASS	TIMED_STATISTICS is set to recommended value for EC18	kerneru	NA	EC18
Bash vulnerability CVE-2014-6271	PASS	Bash is not vulnerable to code injection (CVE-2014-6271)	kerneru	NA	None
/dev/shm mount	PASS	/dev/shm is mounted as temporary file system	kerneru	NA	None

28.11.19

OraChk - Database Configuration -Check and -Management



# Collection Manager – Screenshots (3)

[Home](#)
[Collections](#)
[Report View](#)
[Incidents](#)
[Audit Checks](#)
[Administration](#)

## Health Checks Baseline Comparison Report

Collection1 Details

Collection Date

20-OCT-19 08.49.12.000000 PM

Collection Name

orachk\_kereru\_PDB12102\_102019\_20471

Crs Home - Version

CRS Home -

Database Homes - Version

/u00/app/oracle/product/12.1.0.2 - 12.1.0.2.0

Database Servers

kereru

Databases

CDB12102(PRIMARY), PDB12102(PRIMARY)

Tool Version

19.2.0\_20190717

Current User

oracle

Collection2 Details

Collection Date

20-OCT-19 08.59.42.000000 PM

Collection Name

orachk\_kereru\_PDBSE2\_102019\_205740

Crs Home - Version

CRS Home -

Database Homes - Version

/u00/app/oracle/product/12.1.0.2 - 12.1.0.2.0

Database Servers

kereru

Databases

CDBSE2(PRIMARY), PDBEE(PRIMARY), PDBSE2(PRIMARY)


Tool Version

19.2.0\_20190717

Current User

oracle

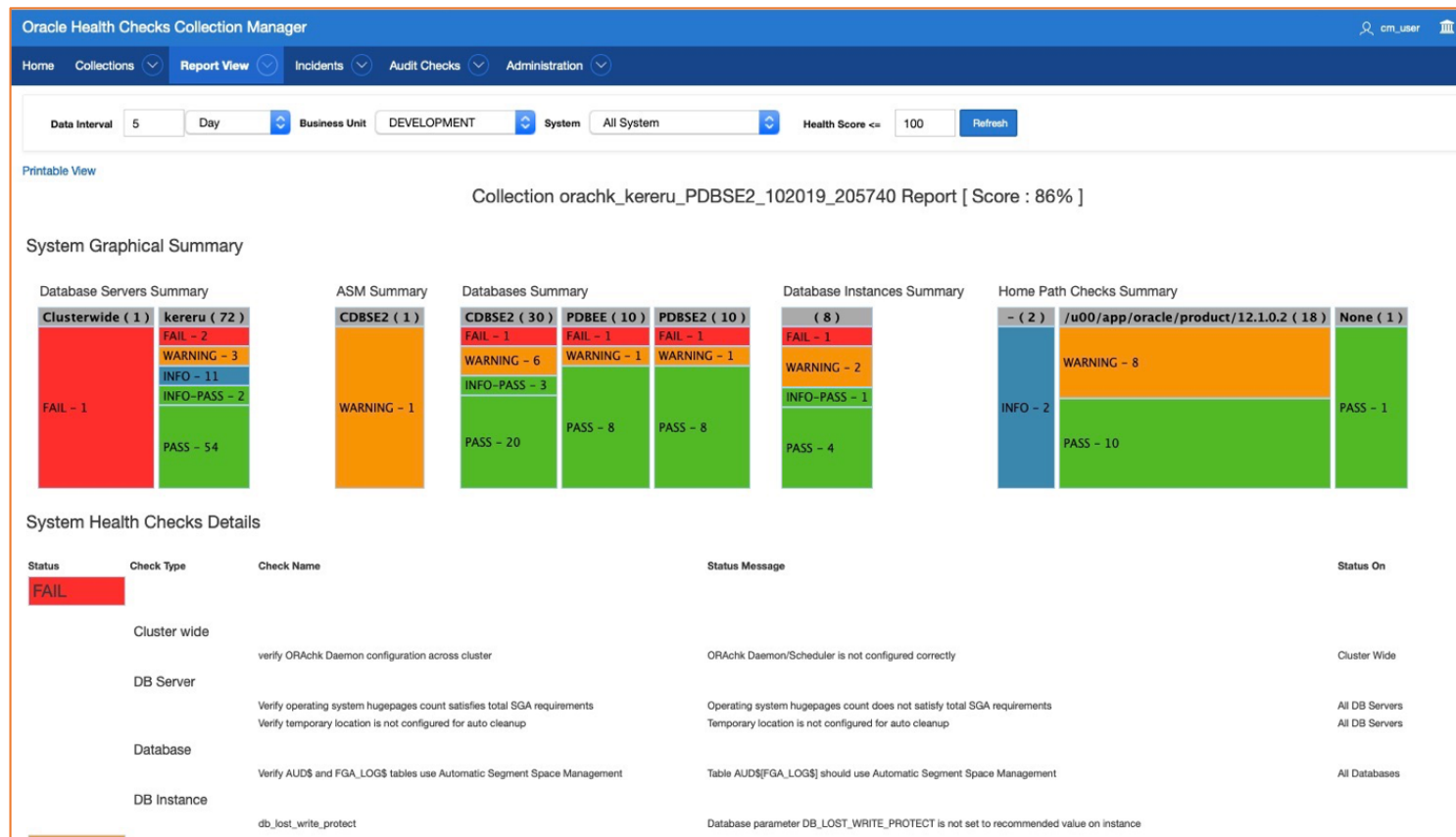
Checks Differed

Check Name	Status1 ↑	StatusMsg1	Actual Values1	Hostname1	DBName1	InstName1	Status2	StatusMsg2	Actual Values2	Hostname2	DBName2	InstName2
 OSWatcher status	WARNING	OSWatcher is not running as is recommended.	<a href="#">View</a>	kereru	None	NA	PASS	OSWatcher is running	<a href="#">View</a>	kereru	None	NA

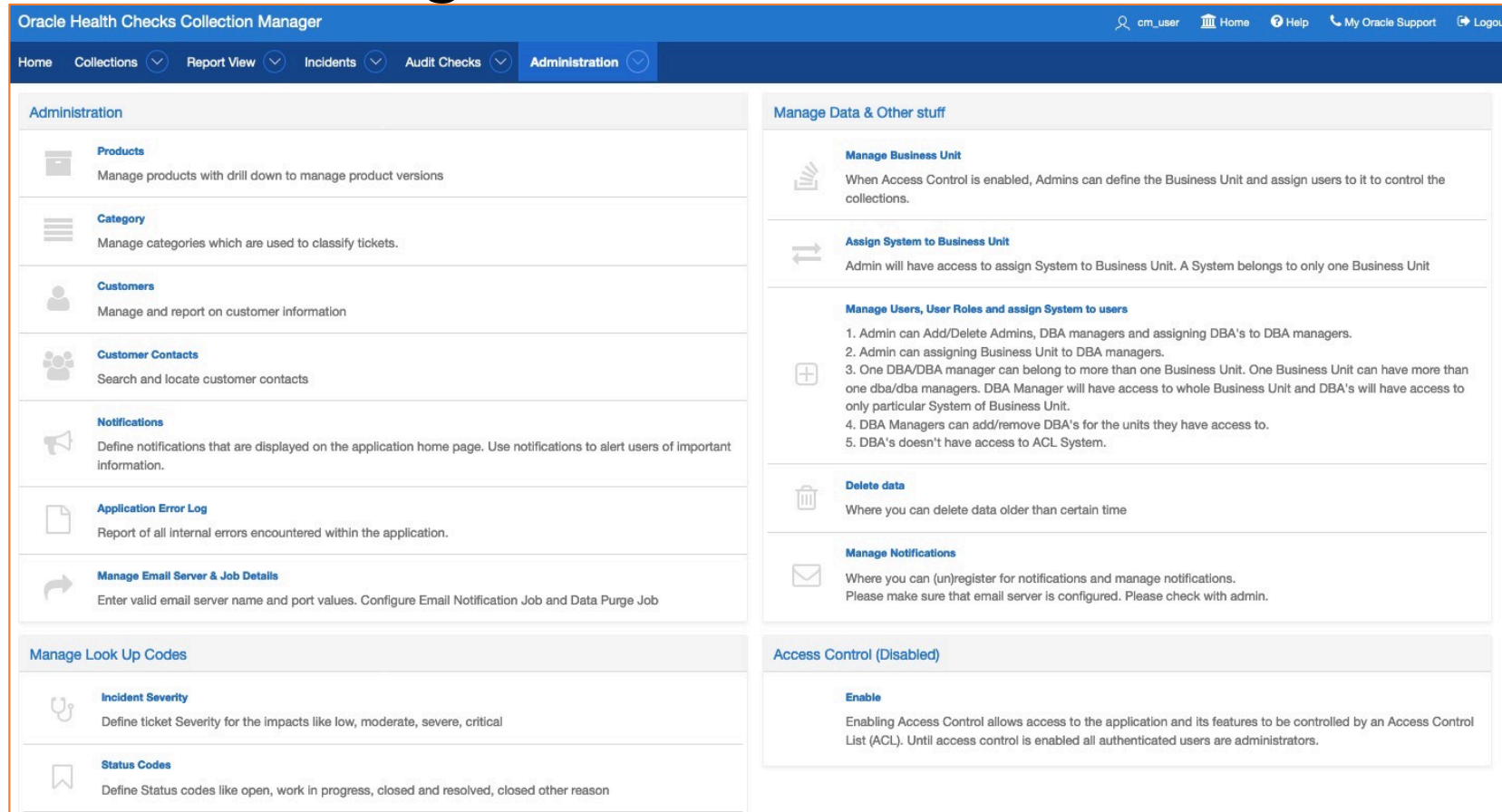
28.11.19

OraChk - Database Configuration -Check and -Management

# Collection Manager – Screenshots (4)



# Collection Manager – Administration



The screenshot displays the Oracle Health Checks Collection Manager Administration interface. The top navigation bar includes links for Home, Collections, Report View, Incidents, Audit Checks, and Administration (selected). The main content area is divided into two columns.

**Administration Column:**

- Products:** Manage products with drill down to manage product versions.
- Category:** Manage categories which are used to classify tickets.
- Customers:** Manage and report on customer information.
- Customer Contacts:** Search and locate customer contacts.
- Notifications:** Define notifications that are displayed on the application home page. Use notifications to alert users of important information.
- Application Error Log:** Report of all internal errors encountered within the application.
- Manage Email Server & Job Details:** Enter valid email server name and port values. Configure Email Notification Job and Data Purge Job.
- Manage Look Up Codes:**
  - Incident Severity:** Define ticket Severity for the Impacts like low, moderate, severe, critical.
  - Status Codes:** Define Status codes like open, work in progress, closed and resolved, closed other reason.

**Manage Data & Other stuff Column:**

- Manage Business Unit:** When Access Control is enabled, Admins can define the Business Unit and assign users to it to control the collections.
- Assign System to Business Unit:** Admin will have access to assign System to Business Unit. A System belongs to only one Business Unit.
- Manage Users, User Roles and assign System to users:**
  - Admin can Add/Delete Admins, DBA managers and assigning DBA's to DBA managers.
  - Admin can assigning Business Unit to DBA managers.
  - One DBA/DBA manager can belong to more than one Business Unit. One Business Unit can have more than one dba/dba managers. DBA Manager will have access to whole Business Unit and DBA's will have access to only particular System of Business Unit.
  - DBA Managers can add/remove DBA's for the units they have access to.
  - DBA's doesn't have access to ACL System.
- Delete data:** Where you can delete data older than certain time.
- Manage Notifications:** Where you can (un)register for notifications and manage notifications. Please make sure that email server is configured. Please check with admin.
- Access Control (Disabled):**
  - Enable:** Enabling Access Control allows access to the application and its features to be controlled by an Access Control List (ACL). Until access control is enabled all authenticated users are administrators.

28.11.19

OraChk - Database Configuration -Check and -Management

# Add your own checks

# Additional Checks for OraChk (1)

- You can configure the checks
  - Disable Checks
  - Add your own checks to OraChk
- But modifying existing checks (e.g. changing thresholds) is not possible
- Collection Manager is the easiest way to do so
- After defining new checks you have to download `""user_defined_checks.xml"` and to distribute it to the servers
- Run `"orachk -profile user_defined_checks"` to restrict OraChk on your own checks

# Additional Checks for OraChk (2)

The screenshot shows the 'Administration' tab in the 'Oracle Health Checks Collection Manager'. The 'Manage user defined checks' section contains the following fields and controls:

- Audit Check Type:** A dropdown menu set to 'SQL Check'.
- SQL Statement:** A text area containing the query: `select 1 from dba_users where username='DBSNMP' and account_status='OPEN';`
- On Hold:** A dropdown menu set to 'NO'.
- Audit Check Name:** A text field containing 'SQL\_DEMO\_CHECK'.
- SQL Statement for report:** An empty text area.
- SQL Repair Command:** An empty text area.
- Oracle Version:** A list of versions (11.2.0.3.0 to 14.1.15.0.0) with a selection box set to '18.0.0.0.0'.
- Platforms:** A list of platforms (Linux x86\_64 - OEL/RHEL 7, AIX - 5.2, AIX - 5.3, AIX - 6.1, AIX - 7.1, HP-UX Itanium - 11.23, HP-UX Itanium - 11.31, HP-UX PA-RISC - 11.23, HP-UX PA-RISC - 11.31) with a selection box set to 'Linux x86\_64 - OEL/RHEL 7'.
- Candidate Systems:** A list of systems (EXALOGIC\_PC, EXALOGIC\_VM, EXALYTICS, FOXTROT\_CTRLVM, FOXTROT\_DOM0, GOLDENGATE, IDM, IDMPINSTALL, IDMPREINSTALL, MAA) with a selection box set to 'EXALOGIC\_PC'.
- Database Type (Default Value NORMAL):** A selection box set to 'NORMAL'.
- Database Role (Default Value PRIMARY):** A selection box set to 'PRIMARY'.
- Database Mode (Default Mode OPEN):** A selection box set to 'OPEN'.
- Needs Running:** A dropdown menu set to 'Database'.
- Comparison Operator:** A dropdown menu set to 'equal (integer comparis'.
- Comparison Value:** A text field containing '1'.
- Oracle Executable Path:** An empty text field.

# Summary & Further Information

# Summary

- + Helpful tool for checking your Oracle configuration
- + Don't take every check for relevant
- + Don't expect your systems to achieve "100 of 100 points"
- + Collection Manager
  - + Simple configuration management/monitoring
  - + Basic "ticket system"
- Orachk once was a cute, small and efficient tool but, ...
- Very dynamic
  - Between October and December 3 versions (AHF 19.3.0, 19.3.1 and 19.3.2) were released
- Very confusing
  - Different ways to install the tool and to keep it up to date
  - Orachk is delivered with the RDBMS software but not upgraded with Rus
  - "RDBMS OraChk" seems to be a dead end



# Further Information

- MOS-Notes
  - ORAchk - Health Checks for the Oracle Stack (Doc ID 1268927.2)
  - Oracle Exadata Database Machine EXAchk or HealthCheck (Doc ID 1070954.1)
  - ORAchk Upgrade Readiness Assessment (Doc ID 1457357.1)
  - How to Install ORAchk on Windows (Doc ID 2414394.1)
  - Autonomous Health Framework (AHF) - Including TFA and ORAchk/EXAchk (Doc ID 2550798.1)
- Documentation
  - <https://docs.oracle.com/en/engineered-systems/health-diagnostics/autonomous-health-framework/>
- Article
  - <https://www.informatik-aktuell.de/betrieb/datenbanken/oracle-orachk-konfigurationspruefung-und-management.html>

# Questions & Answers

Markus Flechtner

[markus.flechtner@trivadis.com](mailto:markus.flechtner@trivadis.com)

Phone +49 211 5866 64725



@markusdba



[www.markusdba.net|.de](http://www.markusdba.net|.de)

BASEL | BERN | BRUGG | BUKAREST | DÜSSELDORF | FRANKFURT A.M. | FREIBURG I.B.R. | GENÈVE  
HAMBURG | KOPENHAGEN | LAUSANNE | MANNHEIM | MÜNCHEN | STUTTGART | WIEN | ZÜRICH

**trivadis**



Making a **WORLD** possible  
in which **intelligent IT**  
facilitates **LIFE and WORK** as a  
**matter of course.**