

Oracle Trace File Analyzer (TFA)

with Database Support Tools Bundle

What's New in 12.2.1.3.0

Safe Harbor Statement

The following is intended to outline our general product direction. It is intended for information purposes only, and may not be incorporated into any contract. It is not a commitment to deliver any material, code, or functionality, and should not be relied upon in making purchasing decisions. The development, release, and timing of any features or functionality described for Oracle's products remains at the sole discretion of Oracle.

Why TFA?



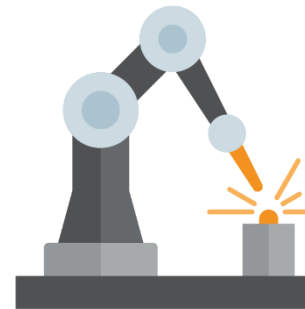
Easy to use real-time health monitoring, fault detection & diagnosis via a single interface



Secure consolidation of distributed diagnostic collections

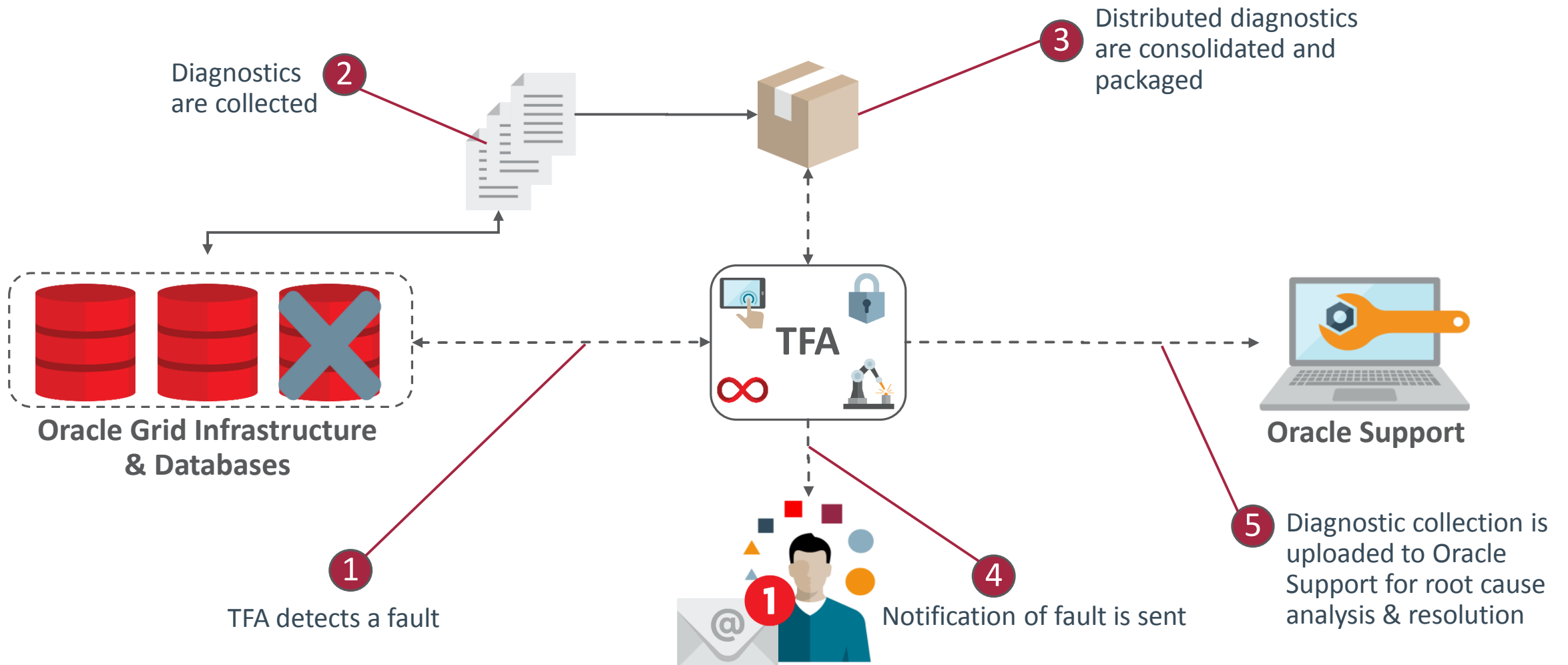


Continuous availability so you always get what's needed for resolution

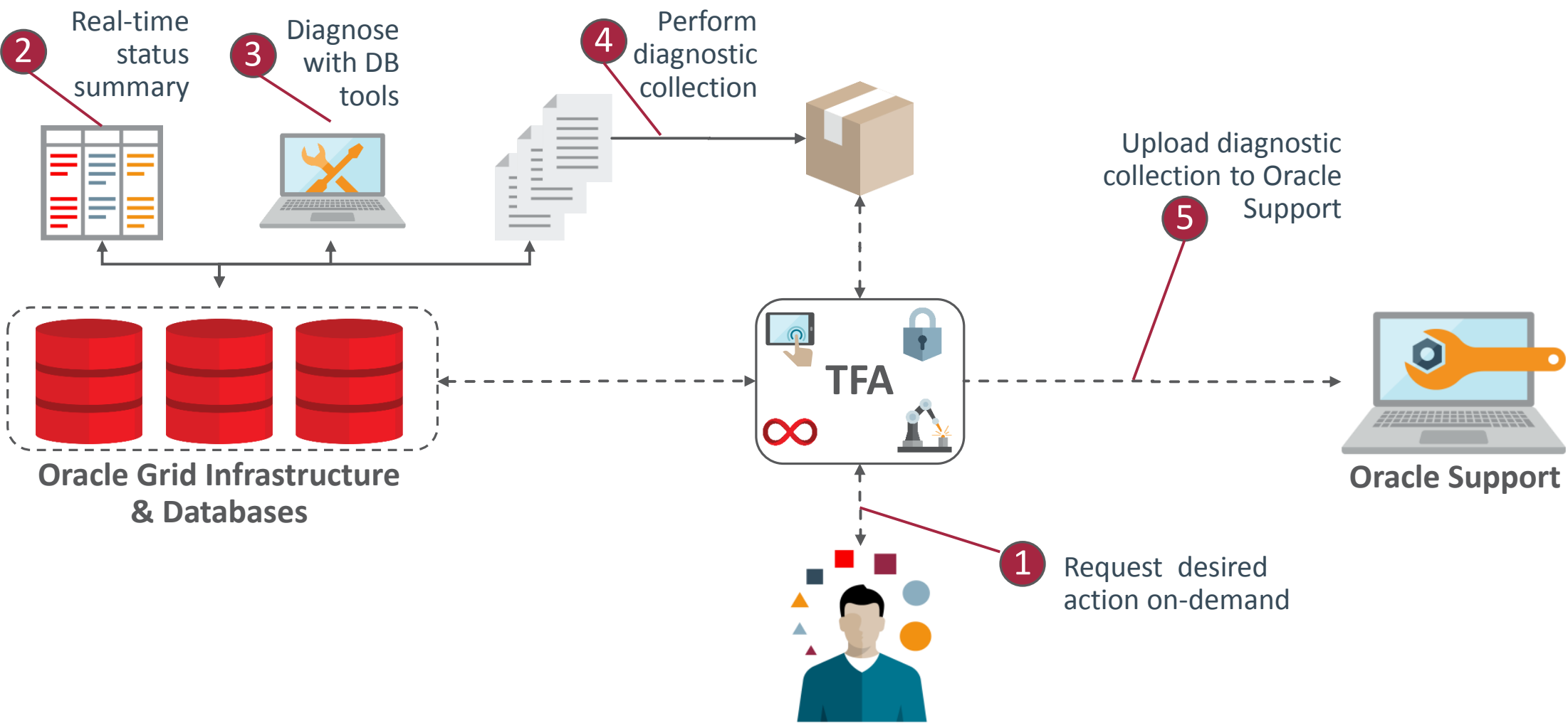


Machine learning driven, autonomous degradation detection, reduces your overheads

Autonomous Usage



On-Demand Usage



Program Agenda

- 1 Simplified Real-Time Summary Report
- 2 Automatic Collection Upload to SRs
- 3 Faster and Easier Service Request Data Collection

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Simplified Real-time Status Summary

```
# tfactl summary

Executing Summary in Parallel on Following Nodes:
Node : myserver01
Node : myserver02

LOGFILE LOCATION :
/u01/app/grid/tfa/repository/suptools/myserver01/summary/root/20170920.log

Component Specific Summary collection :
- Collecting CRS details ... Done.
- Collecting ASM details ... Done.
- Collecting ACFS details ... Done.
- Collecting DATABASE details ... Done.
- Collecting EXADATA details ... Done.
- Collecting PATCH details ... Done.
- Collecting LISTENER details ... Done.
- Collecting NETWORK details ... Done.
- Collecting OS details ... Done.
- Collecting TFA details ... Done.
- Collecting SUMMARY details ... Done.

Remote Summary Data Collection : In-Progress - Please wait ...
- Data Collection From Node - myserver02 .. Done.

Prepare Clusterwide Summary Overview ... Done
```

tfactl summary

COMPONENT	STATUS	DETAILS
CRS	PROBLEM	<pre>CRS_SERVER_STATUS : ONLINE CRS_STATE : ONLINE CRS_INTEGRITY_CHECK : FAIL CRS_RESOURCE_STATUS : OFFLINE Resources Found</pre>
ASM	PROBLEM	<pre>ASM_DISK_SIZE_STATUS : WARNING - Available Size < 20% ASM_BLOCK_STATUS : PASS ASM_CHAIN_STATUS : PASS ASM_INCIDENTS : FAIL ASM_PROBLEMS : FAIL</pre>
ACFS	OFFLINE	<pre>ACFS_STATUS : OFFLINE</pre>
DATABASE	PROBLEM	<pre>ORACLE_HOME_DETAILS ORACLE_HOME_NAME ----- ----- PROBLEMS INCIDENTS DB_BLOCKS DATABASE_NAME STATUS DB_CHAINS ----- ----- PASS PASS PROBLEM rac1 PROBLEM PROBLEM ----- ----- </pre>
EXADATA	PROBLEM	<pre>SWITCH_SSH_STATUS : CONFIGURED CELL_SSH_STATUS : CONFIGURED ENVIRONMENT_TEST : FAIL LINKUP : FAIL LUN_STATUS : NORMAL RS_STATUS : RUNNING CELLSRV_STATUS : RUNNING MS_STATUS : RUNNING</pre>
PATCH	OK	<pre>CRS_PATCH_CONSISTENCY_ACROSS_NODES : OK DATABASE_PATCH_CONSISTENCY_ACROSS_NODES : OK</pre>
LISTENER	OK	<pre>LISTENER_STATUS : OK</pre>
NETWORK	PROBLEM	<pre>USER_EQUIVALENCE : FAIL</pre>
OS	OK	<pre>MEM_USAGE_STATUS : OK</pre>
TFA	OK	<pre>TFA_STATUS : RUNNING</pre>
SUMMARY	OK	<pre>SUMMARY_EXECUTION_TIME : 0H:0M:53S</pre>

High-level summary of all Database components

```
### Entering in to SUMMARY Command-Line Interface ###

tfactl_summary>list

Components : Select Component - select [component_number|component_name]
1 => overview
2 => crs_overview
3 => asm_overview
4 => acfs_overview
5 => database_overview
6 => exadata_overview
7 => patch_overview
8 => listener_overview
9 => network_overview
10 => os_overview
11 => tfa_overview
12 => summary_overview

tfactl_summary>
```

Choose an option to drill down

Simplified Real-time Status Summary – Drill Down

```
tfactl_summary_asm_overview>
```

ASM_INSTANCE	HOSTNAME	ASM_DISK_SIZE_STATUS	ASM_BLOCK_STATUS	ASM_CHAIN_STATUS	ASM_INCIDENTS	ASM_PROBLEMS
+ASM1	myserver01	WARNING - Available Size < 20%	PASS	PASS	FAIL	FAIL
+ASM2	myserver02	WARNING - Available Size < 20%	PASS	PASS	PASS	PASS

```
Status Type: Select Status Type - select [status_type_number|status_type_name]
1 => asm_myserver01
2 => asm_myserver02
```

```
tfactl_summary_asm_overview>1
```

```
=====> asm_problems
```

```
ADR_EVENTS
```

STATUS_TYPE	DETAILS
ADR_HOME	/u01/app/grid/diag/asm/+asm/+ASM1
ORACLE_HOME	/u01/app/12.1.0.2/grid
PROBLEM_STATUS_CHECK	ASM1:FAIL
PROBLEMS	.
	LAST_INCIDENT LASTINC_TIME PROBLEM_ID PROBLEM_KEY
	140993 2017-07-26 10:33:59.207000 -07:00 1 ORA 700 [kfzUserAuth_beq]

```
=====> asm_instancefiles
```

file_number	compound_index	bytes	block_size	name	modification_date	creation_date	striped	incarnation	group_number
256	16777472	7680	512	PASSWORD	28-APR-16	28-APR-16	COARSE	910378595	1
257	16777473	167329792	16384	CONTROLFILE	28-APR-16	28-APR-16	FINE	910378603	1
258	16777474	4294967808	512	ONLINELOG	28-APR-16	28-APR-16	COARSE	910378605	1
259	16777475	4294967808	512	ONLINELOG	28-APR-16	28-APR-16	COARSE	910378607	1
260	16777476	17179877376	8192	DATAFILE	28-APR-16	28-APR-16	COARSE	910378609	1
261	16777477	5153972224	8192	DATAFILE	28-APR-16	28-APR-16	COARSE	910378609	1
262	16777478	17179877376	8192	DATAFILE	28-APR-16	28-APR-16	COARSE	910378613	1
263	16777479	5153972224	8192	DATAFILE	28-APR-16	28-APR-16	COARSE	910378613	1
264	16777480	17179877376	8192	DATAFILE	28-APR-16	28-APR-16	COARSE	910378613	1
265	16777481	7680	512	PASSWORD	28-APR-16	28-APR-16	COARSE	910378849	1
266	16777482	167329792	16384	CONTROLFILE	28-APR-16	28-APR-16	FINE	910378855	1
267	16777483	4294967808	512	ONLINELOG	28-APR-16	28-APR-16	COARSE	910378857	1
268	16777484	4294967808	512	ONLINELOG	28-APR-16	28-APR-16	COARSE	910378859	1
269	16777485	17179877376	8192	DATAFILE	28-APR-16	28-APR-16	COARSE	910378861	1
270	16777486	5153972224	8192	DATAFILE	28-APR-16	28-APR-16	COARSE	910378861	1
271	16777487	17179877376	8192	DATAFILE	28-APR-16	28-APR-16	COARSE	910378863	1
272	16777488	5153972224	8192	DATAFILE	28-APR-16	28-APR-16	COARSE	910378865	1
273	16777489	17179877376	8192	DATAFILE	28-APR-16	28-APR-16	COARSE	910378865	1
274	16777490	7680	512	PASSWORD	28-APR-16	28-APR-16	COARSE	910384849	1
275	16777491	167395328	16384	CONTROLFILE	28-OCT-17	28-APR-16	FINE	910384857	1
276	16777492	4294967808	512	ONLINELOG	28-OCT-17	28-APR-16	COARSE	910384859	1
277	16777493	4294967808	512	ONLINELOG	28-OCT-17	28-APR-16	COARSE	910384861	1
278	16777494	17179877376	8192	DATAFILE	28-OCT-17	28-APR-16	COARSE	910384863	1

```
=====> asm_status_summary
```

```
STATUS_TYPE
```

STATUS_TYPE	STATUS
SYSTEM_DATE	Wed Nov 1 02:26:44 PDT 2017
ASM_HOME	/u01/app/12.1.0.2/grid
ASM_VERSION	
ASM_INSTANCE	+ASM1
ASM_DIAGNOSTICS_TRACE_FOLDER	/u01/app/grid/diag/asm/+asm/+ASM1/trace
ASM_CHAIN_STATUS	PASS
ASM_BLOCK_STATUS	PASS
ASM_DISK_SIZE_STATUS	WARNING - Available Size < 20%
ASM_DISK_GROUP_SUMMARY	.
	name disk_size_alert
	DATA1 Yellow : 25%
	RECOC2 Yellow : 48%
	DBFS_DG Yellow : 47%
	RECOC1 Red : 1%
ADR_EVENTS	.
	HOSTNAME INCIDENT_STATUS INSTANCE_NAME PROBLEM_STATUS
	myserver01 FAIL ASM1 FAIL

Drill downs show real-time analytics & details of any problems found



Program Agenda

- 1 Simplified Real-Time Summary Report
- 2 Automatic Collection Upload to SRs
- 3 Faster and Easier Service Request Data Collection

One Command SRDCs

```
-bash-4.1# tfactl setupmos
Enter User ID: john.doe@company.com
Enter Password:
Wallet is /scratch/app/11.2.0.4/grid/tfa/myserver69/tfa_home/ewallet.pl2
USER key existed in the wallet. Deleting ...
USER details added/updated in the wallet
PASSWORD key existed in the wallet. Deleting ...
PASSWORD details added/updated in the wallet
SUCCESS - CERTIMPORT - Successfully imported certificate
```

```
-bash-4.1# su - oracle
-bash-4.1$ tfactl diagcollect -srdc ORA-00600 -sr 3-15985570811
Enter the time of the ORA-00600 [YYYY-MM-DD HH24:MI:SS,<RETURN>=ALL] :
Enter the Database Name [<RETURN>=ALL] :

1. Oct/23/2017 03:03:40 : [ogg11204] ORA-00600: internal error code, arguments: [gc_test_error], [0], [0], [], [], [], [], [], [], [], []
2. Sep/26/2017 10:03:10 : [ogg11204] ORA-00600: internal error code, arguments: [], [], [], [], [], [], [], [], [], [], [], []
3. Sep/26/2017 10:02:49 : [ogg11204] ORA-00600: internal error code, arguments: [], [], [], [], [], [], [], [], [], [], [], []
4. Sep/26/2017 10:02:33 : [ogg11204] ORA-00600: internal error code, arguments: [], [], [], [], [], [], [], [], [], [], [], []
5. Jan/09/2016 13:01:02 : [+ASM1] ORA-00600: internal error code, arguments: [ksdnhg:msg_checksum], [9070324609822233070], [15721744232659255108], [0x7FFBDC07A9E8], [], [], [], [], [], [], []
```

```
Please choose the event : 1-5 [1] 1
Selected value is : 1 ( Oct Detailed Logging at :
Scripts to be run by this s /scratch/app/oragrid/tfa/repository/srdc_ora600_collection_Tue_Oct_31_02_47_35_PDT_2017_node_local/diagcollect_20171031024735_myserver69.log
Components included in this 2017/10/31 02:47:38 PDT : NOTE : Any file or directory name containing the string .com will be renamed to replace .com with dotcom
Use of uninitialized value 2017/10/31 02:47:38 PDT : Collection Name : tfa_srdc_ora600_Tue_Oct_31_02_47_35_PDT_2017.zip
Collecting data for local 2017/10/31 02:47:38 PDT : Scanning of files for Collection in progress...
Scanning files from Oct/22/ 2017/10/31 02:47:38 PDT : Collecting additional diagnostic information...
2017/10/31 02:47:43 PDT : Getting list of files satisfying time range [10/22/2017 21:03:40 PDT, 10/23/2017 09:03:40 PDT]
2017/10/31 02:47:56 PDT : Collecting ADR incident files...
Collection Id : 20171031024 2017/10/31 02:49:08 PDT : Completed collection of additional diagnostic information...
2017/10/31 02:49:11 PDT : Completed Local Collection
2017/10/31 02:49:12 PDT : Uploading collection to SR - 3-15985570811
2017/10/31 02:49:13 PDT : Successfully uploaded collection to SR

-----
|           Collection Summary           |
+-----+-----+-----+-----+
| Host      | Status  | Size  | Time  |
+-----+-----+-----+-----+
| myserver69 | Completed | 2MB  | 93s  |
+-----+-----+-----+-----+

Logs are being collected to: /scratch/app/oragrid/tfa/repository/srdc_ora600_collection_Tue_Oct_31_02_47_35_PDT_2017_node_local

/scratch/app/oragrid/tfa/repository/srdc_ora600_collection_Tue_Oct_31_02_47_35_PDT_2017_node_local/myserver69.tfa_srdc_ora600_Tue_Oct_31_02_47_35_PDT_2017.zip
```

```
tfactl diagcollect -srdc <srdc_type> -sr <SR#>
```

- Store My Oracle Support (MOS) credentials securely in wallet

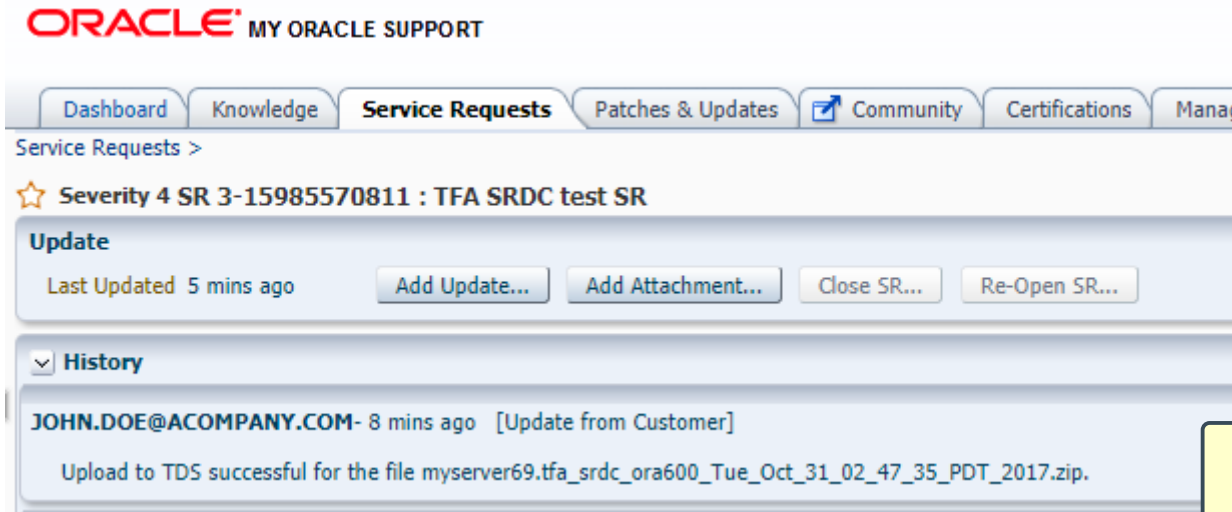
- Run this once as root:

```
tfactl setupmos
```

- Add `-sr <sr_number>` to any `diagcollect` command

- Run this as `oracle_home` owner:

Collection Uploaded to My Oracle Support



The screenshot displays the Oracle My Oracle Support interface. At the top, the Oracle logo and "MY ORACLE SUPPORT" are visible. Below this is a navigation bar with tabs for "Dashboard", "Knowledge", "Service Requests", "Patches & Updates", "Community", "Certifications", and "Manage". The "Service Requests" tab is active, and the breadcrumb "Service Requests >" is shown. The main content area displays a service request titled "Severity 4 SR 3-15985570811 : TFA SRDC test SR". Under the "Update" section, it shows "Last Updated 5 mins ago" and buttons for "Add Update...", "Add Attachment...", "Close SR...", and "Re-Open SR...". Below this is a "History" section with a dropdown arrow. The history entry shows "JOHN.DOE@ACOMPANY.COM- 8 mins ago [Update from Customer]" and the text "Upload to TDS successful for the file myserver69.tfa_srdc_ora600_Tue_Oct_31_02_47_35_PDT_2017.zip."

At the end of the collection the file is automatically uploaded to the SR

Upload any File

With Wallet:

```
tfactl upload -wallet -sr <sr_number> <file1 file2>
```

```
tfactl upload -wallet -sr 3-15963755541 /tmp/test_sr_file.txt  
Started uploading files to SR - 3-15963755541  
Sucessfully uploaded file - /tmp/test_sr_file.txt
```

Without wallet:

```
tfactl upload -user <user_id> -sr <sr_number> <file1 file2>
```

```
tfactl upload -user john.doe@oracle.com -sr 3-15963755541 /tmp/test_sr_file2.txt /tmp/test_sr_file3.txt  
Password:  
Started uploading files to SR - 3-15963755541  
Uploading file - /tmp/test_sr_file2.txt  
Uploading file - /tmp/test_sr_file3.txt  
Files upload is done
```

Program Agenda

- 1 Simplified Real-Time Summary Report
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- 3 **Faster and Easier Service Request Data Collection**

Faster & Easier SR Data Collection

New SRDCs

```
tfactl diagcollect -srdc <srdc_type> -sr <SR#>
```

Type of Problem	SRDC
ORA Errors	<ul style="list-style-type: none"> • ORA-00020 • ORA-00060 • ORA-00600 • ORA-00700 • ORA-01555 • ORA-01628 • ORA-04030 <ul style="list-style-type: none"> • ORA-04031 • ORA-07445 • ORA-27300 • ORA-27301 • ORA-27302 • ORA-30036
Other internal database errors	• internalerror
Database performance	• dbperf
Database patching	<ul style="list-style-type: none"> • dbpatchinstall • dbpatchconflict
Database resource	• dbunixresources
XDB installation or invalid object	• dbxdb
Database install / upgrade	<ul style="list-style-type: none"> • dbinstall • dbupgrade • dbpreupgrade

Type of Problem	SRDC
Database storage	• asm
Excessive SYSAUX Space used by the Automatic Workload Repository (AWR)	• dbawrspac
Database startup / shutdown	<ul style="list-style-type: none"> • dbshutdown • dbstartup
Data Guard	• dbdataguard
Enterprise Manager tablespace usage metric	• emtbsmetrics
Enterprise Manager general metrics page or threshold problems - Run all three SRDCs	<ul style="list-style-type: none"> • emdebugon • emdebugoff
	• emmetricalert
Enterprise Manager target discovery / add	<ul style="list-style-type: none"> • emcliadd • emclusdisc • emdbsys • emgendisc • emprocdisc
Enterprise Manager OMS restart	• emrestartoms

For more info see
Document: [1513912.1](#)

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