# Local checks output and used SAP commands located at /usr/share/check-mk-agent/local

## check\_listdatabases.sh

This check simply get all running databases and their processes in the system and perform grep for error messages in command output.

Output of script:

[root@defzisapla501 local]# ./check\_listdatabases.sh

2 SAPHANA\_Procs\_ varname=2;crit CRITICAL Databasename:SYSTEMDB@AD3,Status:Error

0 SAPHANA\_Procs\_Componentname:hdbdaemon varname=2;crit OK Componentname:hdbdaemon(HDBDaemon),Status:Running(Running)

0 SAPHANA\_Procs\_Componentname:hdbcompileserver varname=2;crit OK Componentname:hdbcompileserver(HDBCompileserver),Status:Running(Running)

0 SAPHANA\_Procs\_Componentname:hdbdiserver varname=2;crit OK Componentname:hdbdiserver(HDBDeploymentInfrastructureServer-AD3),Status:Running(Running)

0 SAPHANA\_Procs\_Componentname:hdbnameserver varname=2;crit OK Componentname:hdbnameserver(HDBNameserver),Status:Running(Running)

0 SAPHANA\_Procs\_Componentname:hdbpreprocessor varname=2;crit OK Componentname:hdbpreprocessor(HDBPreprocessor),Status:Running(Running)

0 SAPHANA\_Procs\_Componentname:hdbwebdispatcher varname=2;crit OK Componentname:hdbwebdispatcher(HDBWebDispatcher),Status:Running(Running)

Command:

/usr/sap/hostctrl/exe/saphostctrl -function ListDatabases

Output of command:

[root@loca]# /usr/sap/hostctrl/exe/saphostctrl -function ListDatabases

Instance name: HDB00, Hostname: defzisapla501, Vendor: HDB, Type: hdb, Release: 2.00.020.00.1500920972

Database name: SYSTEMDB@AP2, Status: Warning

Component name: hdbdaemon (HDB Daemon), Status: Running (Running)

Component name: hdbcompileserver (HDB Compileserver), Status: Running (Running)

Component name: hdbindexserver (HDB Indexserver-AP2), Status: Running (Running) Component name: hdbnameserver (HDB Nameserver), Status: Running (Running)

Component name: hdbpreprocessor (HDB Preprocessor), Status: Running (Running)

Component name: hdbwebdispatcher (HDB Web Dispatcher), Status: Running (Running)

Component name: hdbxsengine (HDB XSEngine-AP2), Status: Running (Running)

Component name: hdbmultiDB (HDB MultiDB), Status: Running (System DB)

Component name: hdbconnectivity (HDB Connectivity), Status: Error (SQLconnect not possible (no hdbuserstore entry found))

Component name: hdbalertmanager (HDB Alertmanager), Status: Unknown (no information available)

## check\_instances.sh

This check simply get all running SAP instances and perform grep for error messages in command output.

Output of script:

[root@loca]# ./check\_instances.sh

0 SAPInst\_Procs\_98/usr/sap/DAA/SMDA98/ varname=2;crit OK

0 SAPInst\_Procs\_01/usr/sap/KD3/D01/ varname=2;crit OK

0 SAPInst\_Procs\_02/usr/sap/KD3/ASCS02/ varname=2;crit OK

0 SAPInst\_Procs\_00/usr/sap/AD3/HDB00/ varname=2;crit OK

Command:

sapcontrol -nr 00 -function GetProcessList

Output of command:

[root@loca]# /usr/sap/hostctrl/exe/sapcontrol -nr 00 -function GetProcessList

11.12.2017 15:08:45

GetProcessList OK

name, description, dispstatus, textstatus, starttime, elapsedtime, pid

hdbdaemon, HDB Daemon, GREEN, Running, 2017 11 21 08:21:51, 486:46:54, 4899

hdbcompileserver, HDB Compileserver, GREEN, Running, 2017 11 21 08:22:18, 486:46:2

hdbindexserver, HDB Indexserver-AP2, GREEN, Running, 2017 11 21 08:22:20, 486:46:2

hdbnameserver, HDB Nameserver, GREEN, Running, 2017 11 21 08:21:52, 486:46:53, 525

hdbpreprocessor, HDB Preprocessor, GREEN, Running, 2017 11 21 08:22:18, 486:46:27

hdbwebdispatcher, HDB Web Dispatcher, GREEN, Running, 2017 11 21 08:25:13, 486:43

hdbxsengine, HDB XSEngine-AP2, GREEN, Running, 2017 11 21 08:22:21, 486:46:24, 577

## check\_lssap.sh

This check simply get all running SAP systems and generate inventory, where you can see each system path, version and patch level

Output of script:

[root@loca]# ./check\_lssap.sh

0 SAPInst\_DAA|98|SMDA98| varname=2;crit Inventory DAA|98|SMDA98|defzisapla503|721,patch900,changelist1766319|/usr/sap/DAA/SMDA98/exe

0 SAPInst\_KD3|01|D01| varname=2;crit Inventory KD3|01|D01|defzisapla503|753,patch12,changelist1776635|/usr/sap/KD3/D01/exe

0 SAPInst\_KD3|02|ASCS02| varname=2;crit Inventory KD3|02|ASCS02|defzisapla503|753,patch12,changelist1776635|/usr/sap/KD3/ASCS02/exe

SAPInst\_AD3|00|HDB00| varname=2;crit Inventory AD3|00|HDB00|defzisapla503|749,patch211,changelist1754007|/usr/sap/AD3/HDB00/exe

Command: /usr/sap/hostctrl/exe/lssap

Output of command:

[root@loca]# /usr/sap/hostctrl/exe/lssap

==========================================

SID Nr Instance SAPLOCALHOST Version DIR\_EXECUTABLE

DAA| 98| SMDA98| defzisapla1|721, patch 801, changelist 1730403| /usr/sap/DAA/SMDA98/exe

KP2| 01| DVGS01| defzisapla1|745, patch 100, changelist 1652052| /usr/sap/KP2/DVEBMGS01/exe

KP2| 02| ASCS02| defzisapla1|745, patch 100, changelist 1652052| /usr/sap/KP2/ASCS02/exe

AP2| 00| HDB00| defzisapla1|749, patch 211, changelist 1754007| /usr/sap/AP2/HDB00/exe

JP2| 04| SCS04| defzisapla1|745, patch 100, changelist 1652052| /usr/sap/JP2/SCS04/exe

JP2| 03| J03| defzisapla1|745, patch 100, changelist 1652052| /usr/sap/JP2/J03/exe

H4C| 96| HDB96| defzisapla1|749, patch 18, changelist 1711460|/usr/sap/H4C/HDB96/exe

==========================================

## check\_systemoverview.sh

This check simply get all running databases and their statuses like, CPU, Memory and DISK in the system and perform grep for error messages in command output.

Output of script:

[root@loca]# ./check\_systemoverview.sh

SAPHANA\_Overview\_/usr/sap/AD3/HDB00/exe varname=2;crit OK

Command:

sudo -u ad3adm /bin/bash -c "source ~/.profile; python /usr/sap/AD3/HDB00/exe/python\_support/systemOverview.py"

Output of command:

[root@loca]# ./systemOverview.py

| Section | Name | Status | Value |

| ---------- | --------------- | ------- | --------------------------------------------- |

| System | Instance ID | | AP2 |

| System | Instance Number | | 00 |

| System | Distributed | | No |

| System | Version | | 2.00.020.00.1500920972 (fa/hana2sp02) |

| System | Platform | | Red Hat Enterprise Linux Server release 7.2 |

| Services | All Started | OK | Yes |

| Services | Min Start Time | | 2017-11-21 08:21:52.000 |

| Services | Max Start Time | | 2017-11-21 08:25:13.421 |

| Memory | Memory | OK | Physical 251.91 GB, Swap 7.45 GB, Used 129.65 |

| CPU | CPU | OK | Available 16, Used 1.76 |

| Disk | Data | OK | Size 100.0 GB, Used 58.3 GB, Free 41 % |

| Disk | Log | OK | Size 100.0 GB, Used 3.2 GB, Free 96 % |

| Disk | Trace | OK | Size 199.9 GB, Used 54.4 GB, Free 72 % |

| Statistics | Alerts | WARNING | cannot check statistics w/o SQL connection |

## yum.sh

This script is utilizing already collected data from check\_mk plugin called “yum”. But it has ability to record update status of each server in performance statistic with graph.

Command:

cat /var/lib/check\_mk\_agent/cache/yum\_check.cache

Output of script:

0 PendingUpdates count=72;50;100;0; OK - pending updates 72