



Release Notes

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Product: IBM Security Guardium
Release: 12.0
Description: Guardium 12.0 UNIX S-TAP
Completion Date: September 21, 2023

Finding the Patch

This document provides a reference to the contents of this patch. If applicable, the detailed description of each fix and instructions for applying this patch are contained within the download package. The actual package is available for downloading from the IBM Fix Central website at <http://www.ibm.com/support/fixcentral/>

Make the following selections on Fix Central:

Product Group: IBM Security
Product: IBM Security Guardium
Installed Version: 11.0
Platform: UNIX/Linux
Heading: Database Agent (S-TAP, GIM, CAS)

Click "Continue", then select "Browse for fixes", and click "Continue" again.

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Fix IDs

Guardium_12.0.0.0_CAS_AIX_r115418
Guardium_12.0.0.0_CAS_Debian_r115418
Guardium_12.0.0.0_CAS_RedHat_r115418
Guardium_12.0.0.0_CAS_Solaris_r115418
Guardium_12.0.0.0_CAS_Suse_r115418
Guardium_12.0.0.0_CAS_Ubuntu_r115418
Guardium_12.0.0.0_CAS_zLinux_r115418
Guardium_12.0.0.0_S-TAP_AIX_r115418
Guardium_12.0.0.0_S-TAP_Debian_r115418
Guardium_12.0.0.0_S-TAP_RedHat-6_r115418
Guardium_12.0.0.0_S-TAP_RedHat-7-8-9_r115418
Guardium_12.0.0.0_S-TAP_Solaris_r115418
Guardium_12.0.0.0_S-TAP_Suse_r115418
Guardium_12.0.0.0_S-TAP_System-i_r115418
Guardium_12.0.0.0_S-TAP_Ubuntu_r115418
Guardium_12.0.0.0_S-TAP_zLinux_r115418
Guardium_12.0.0.0_GIM_AIX_r115418
Guardium_12.0.0.0_GIM_Debian_r115418
Guardium_12.0.0.0_GIM_RedHat_r115418
Guardium_12.0.0.0_GIM_Solaris_r115418
Guardium_12.0.0.0_GIM_Suse_r115418
Guardium_12.0.0.0_GIM_Ubuntu_r115418
Guardium_12.0.0.0_GIM_zLinux_r115418

Enhancements

- Unix S-TAP and External S-TAP support OpenSSL version 3.1 and FIPS140-3.
- External S-TAP supports MongoDB Atlas with MongoDB Compass.
- Support added for TLS 1.3.
- Version 12.0 uses GIM certificates with SHA256. For more information, see [Updating Guardium Data Protection GIM clients with SHA256 certificates](#).
- You can now better manage the priority packet queue. In addition, Guardium provides improved reporting about dropped packets.
- Failover and load balancing is more robust.
- When a 3rd-party product that conflicts with Guardium is installed on the system, the platform health check logs a message, provides a warning and instruction for how to work around the issue.
- New exit discovery feature allows database auto-discovery to discover any databases that have exit protocols and add those instances to discovered instances report. For more information, see [Linux-UNIX: Discover database instances](#). Note: This feature is available as part of update bundles for Guardium 11.3 and later.

New platforms and databases supported

- EDB Postgres 15.2
- PostgreSQL 15
- Teradata 17.2
- Vertica 12
- Redis 6.2
- Couchbase 7.1
- CockroachDB 22.2.0
- Elasticsearch 8.6
- Neo4j 5.6
- DataStax 6.8.20
- MongoDB 6.0
- Red Hat 9
- Ubuntu 22.04 LTS

Deprecated platforms, functions, and commands

Platforms and software that are no longer supported

- HP-UX 11.31
- Centera is no longer supported for backups

Platforms that will not be supported in Guardium versions 12.1 and up

- Ubuntu 14
- AIX 7.1
- SuSe 11
- Debian 9

Functionality

Starting with Guardium 12.0, A-TAP support for Db2 and Informix is deprecated. Use the Db2 and Informix Exit interfaces instead. The Exit interfaces offer several advantages:

- No need to install or use kernel modules (K-TAP).
- Lower CPU utilization.
- New database versions are supported sooner.

For information about using Db2 Exit, see:

https://ibm.com/docs/en/SSMPHH_12.0.0/com.ibm.guardium.doc.stap/stap/db2_stap_integrate.html

For information about using Informix Exit, see:

https://ibm.com/docs/en/SSMPHH_12.0.0/com.ibm.guardium.doc.stap/stap/informix_exit_cfg.html

Known limitations and workarounds

Issue key	Description
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GRD-74965	Priority queue mark may not be set due to padding issue. Resolution will be provided in upcoming releases.
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Bugs fixed

Issue key	Summary	APAR
GRD-73223	Guardium STAP/ATAP x Sybase IQ - Missing DB User	GA18443
GRD-72601	hadoop hdfs only collects traffic for one day then stops until Hadoop services are restarted.	GA18380
GRD-72588	STAP Logs are not getting Captured on the Collector for Critical Core banking DB Server	GA18351
GRD-72037	"guard_ktap_loader retry" doesn't work properly	GA18406
GRD-71568	Oracle S-TAP Inactive Alerts triggered, stuck in Synchronizing	GA18426
GRD-71491	STAP with fam_enabled=1 throws "FAM: ERROR: reading from ktap failed: - 1 5 I/O error"	GA18393
GRD-71303	Z/os S-TAP supported for Db2 V12 and DB2 v13	N/A
GRD-71017	S-Tap SAP HANA performance issue	N/A
GRD-71014	issue with Linux s-tap connection to OUA after upgrading s-tap	GA18383
GRD-70948	ktap reader xxxx stopped running: Input/output error	GA18390
GRD-70411	DB2 DB crashing on db2-exit protocol	GA18404
GRD-70321	Update ATAP documentation is needed	N/A
GRD-69879	HDFS Ranger integration is not properly load balanced by STAP	GA18399
GRD-68944	Long sql queries are not captured for SYBASE IQ connections using the CMDSEQ protocol	GA18304
GRD-68338	Database crashing after applying RHEL 8.7 KTAP bundle(4.18.0-425.10.1.el8_7.x86_64).	GA18424
GRD-68063	Large number of packets dropped when DB2 Exit is configured	GA18305
GRD-67946	hadoop hdfs (High Availability) only collects traffic for one day then stops until Hadoop services are restarted.	GA18306
GRD-67825	Hadoop Ranger HA Connectivity Failure using HDFS NamedNode	N/A
GRD-67420	KTAP not loading after system reboot (AIX 7.2)	GA18425
GRD-67175	No bequeath traffic after A-tap re-configured and DB reboot due to device minor number calculation	GA18294
GRD-66895	mongod-guard-or process is killed abruptly by OOM	GA18370
GRD-65798	STAP may become unstable if it sends traffic to between 6 and 9 collectors	GA18164
GRD-64977	No EXIT libraries for Netezza and MySQL in STAP in GIM package (RH8)	GA18204

GRD-64216	Server may become unstable if STAP is upgraded twice while a session is open and KTAP_INSTALLED=0 during the second upgrade	GA18139
GRD-63603	Is there any plan (workaround, or fix) on the roadmap to address the limitation only on Linux that the Guardium K-TAP agent cannot co-exist with Vormetric LDT policies?	GA18158
GRD-62182	Missing ATAP info in the "S-TAP and External S-TAP Statistics" report	GA18025
GRD-61254	IEs "has different ASLHEAPSZ with but they are sharing the same executables	GA17757

Installers with MD5Sums

22f8faa9206e2f2c60d71ae77d82b0e1	consolidated_installer.sh
79757483a108f0ba7cc32eae18c68c41	guard-bundle-CAS-12.0.0.0_r115418_v12_0_1-aix-7.1-aix-powerpc.gim
11762a4e1bd3a49c1427febc2ccbc83e	guard-bundle-CAS-12.0.0.0_r115418_v12_0_1-aix-7.2-aix-powerpc.gim
7d52364d9e36a58dc05c5d64fa45925b	guard-bundle-CAS-12.0.0.0_r115418_v12_0_1-aix-7.3-aix-powerpc.gim
7ac780bb180c4c91feffce9a8ebd8b80	guard-bundle-CAS-12.0.0.0_r115418_v12_0_1-debian-10-linux-x86_64.gim
0c532a4980be28a32f9d055dfeced9ff	guard-bundle-CAS-12.0.0.0_r115418_v12_0_1-debian-11-linux-x86_64.gim
41b3ed6b11863b28f091f434a0c62aab	guard-bundle-CAS-12.0.0.0_r115418_v12_0_1-debian-9-linux-x86_64.gim
2d59c6224c4c42da0ce1494cb7eeea7b	guard-bundle-CAS-12.0.0.0_r115418_v12_0_1-rhel-6-linux-i686.gim
17a0c7df221dd7f3169f6a8e8d2f1afd	guard-bundle-CAS-12.0.0.0_r115418_v12_0_1-rhel-6-linux-ppc64.gim
aa8895d4460fb344d4b1c18bb2b31bb9	guard-bundle-CAS-12.0.0.0_r115418_v12_0_1-rhel-6-linux-s390x.gim
a5cc83d912d1db14d0d0ec007eb0170c	guard-bundle-CAS-12.0.0.0_r115418_v12_0_1-rhel-6-linux-x86_64.gim
0b5936613966ddda716b03ed9b768056	guard-bundle-CAS-12.0.0.0_r115418_v12_0_1-rhel-7-linux-ppc64.gim
ec835016f13642338d6a14899c9581aa	guard-bundle-CAS-12.0.0.0_r115418_v12_0_1-rhel-7-linux-ppc64le.gim
3cadcea56055f408d33afa149269e1d6	guard-bundle-CAS-12.0.0.0_r115418_v12_0_1-rhel-7-linux-s390x.gim
fcf44525aef0ce685d60ce4a4afe9934	guard-bundle-CAS-12.0.0.0_r115418_v12_0_1-rhel-7-linux-x86_64.gim
48b8bb1fc1e19f5cae0458d48341aa84	guard-bundle-CAS-12.0.0.0_r115418_v12_0_1-rhel-8-linux-ppc64le.gim
2dd13f6c9b41a1ca5738a171cc604d20	guard-bundle-CAS-12.0.0.0_r115418_v12_0_1-rhel-8-linux-s390x.gim

df7a6fa89cd1032954af39b94557715c	guard-bundle-CAS-12.0.0.0_r115418_v12_0_1-rhel-8-linux-x86_64.gim
ebb1d394baf9d11a240529e2b954846f	guard-bundle-CAS-12.0.0.0_r115418_v12_0_1-rhel-9-linux-ppc64le.gim
173ed5426654e9b7e9f8ad1dd5dd37b9	guard-bundle-CAS-12.0.0.0_r115418_v12_0_1-rhel-9-linux-s390x.gim
5a16d45ab77b15d1bb86145bbd4de915	guard-bundle-CAS-12.0.0.0_r115418_v12_0_1-rhel-9-linux-x86_64.gim
cfd8927c1bee8385d71e8e796a1d1d1c	guard-bundle-CAS-12.0.0.0_r115418_v12_0_1-sunos-5.10-solaris-i386_64.gim
d3bfd441d3833f8bd80f6dd0852844a2	guard-bundle-CAS-12.0.0.0_r115418_v12_0_1-sunos-5.10-solaris-sparc.gim
1fc102b69c592a7fea93d35d132c673e	guard-bundle-CAS-12.0.0.0_r115418_v12_0_1-sunos-5.11-solaris-i386_64.gim
ce72c2e771ad9b30c08f228d2bdb6234	guard-bundle-CAS-12.0.0.0_r115418_v12_0_1-sunos-5.11-solaris-sparc.gim
f72f00e38fe7a600ea174bb76967956b	guard-bundle-CAS-12.0.0.0_r115418_v12_0_1-suse-11-linux-i686.gim
babd4c59415f65480b39e643b19926f9	guard-bundle-CAS-12.0.0.0_r115418_v12_0_1-suse-11-linux-ppc64.gim
8c9c1ad9c60f46386777a5fadb768f57	guard-bundle-CAS-12.0.0.0_r115418_v12_0_1-suse-11-linux-s390x.gim
3bb35e48cf5239df30f453c5f00d5881	guard-bundle-CAS-12.0.0.0_r115418_v12_0_1-suse-11-linux-x86_64.gim
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68cb47682bd64e5181119e61eae62437	guard-bundle-CAS-12.0.0.0_r115418_v12_0_1-suse-12-linux-s390x.gim
f21b5c54e82d29aa841cf40d2fa3d13a	guard-bundle-CAS-12.0.0.0_r115418_v12_0_1-suse-12-linux-x86_64.gim
7b8a4360bd74cf6a0a40c277af5188ea	guard-bundle-CAS-12.0.0.0_r115418_v12_0_1-suse-15-linux-ppc64le.gim
4079581488cba54c6914b4a48230d829	guard-bundle-CAS-12.0.0.0_r115418_v12_0_1-suse-15-linux-s390x.gim
99cfd7f81e9a6454b058327e03906775	guard-bundle-CAS-12.0.0.0_r115418_v12_0_1-suse-15-linux-x86_64.gim
9e6da43c3d0c672d1b9c27cd92859795	guard-bundle-CAS-12.0.0.0_r115418_v12_0_1-ubuntu-14.04-linux-x86_64.gim
6a0718a495dfad0032cf251742d9c081	guard-bundle-CAS-12.0.0.0_r115418_v12_0_1-ubuntu-16.04-linux-x86_64.gim
38df82a757f8233e959f1d8da20ec90f	guard-bundle-CAS-12.0.0.0_r115418_v12_0_1-ubuntu-18.04-linux-s390x.gim
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75e656b0a17002dda650a7bb61d13b39	guard-bundle-CAS-12.0.0.0_r115418_v12_0_1-ubuntu-22.04-linux-s390x.gim

d5a22afa193a75db9491ae54e0f01df5	guard-bundle-CAS-12.0.0.0_r115418_v12_0_1-ubuntu-22.04-linux-x86_64.gim
831bec775b7ac8e92b2c9d21d212c2bc	guard-bundle-FAM-12.0.0.0_r115418_v12_0_1-aix-7.1-aix-powerpc.gim
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45d240ca318c85337702e32bbde7f235	guard-bundle-GIM-12.0.0.0_r115418_v12_0_1-aix-7.3-aix-powerpc.gim.sh
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Resources

Supported Platforms and Databases:

<https://www.securitylearningacademy.com/mod/data/view.php?id=19457>

Supported platforms for files:

<https://www.ibm.com/support/pages/node/6245402>

IBM Security Guardium Knowledge Center and online help

http://www-01.ibm.com/support/knowledgecenter/SSMPHH/SSMPHH_welcome.html

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