



Release Notes

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Product: IBM Security Guardium
Release: 11.4
Fix Completion Date: 17 September 2021
Description: Guardium 11.4 UNIX S-TAP

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: Security
Product: 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.

Table of Contents

FIX IDS	3
ENHANCEMENTS	4
NEW PLATFORMS AND DATABASES SUPPORTED	4
DEPRECATED PLATFORMS	4
KNOWN LIMITATIONS AND WORKAROUNDS	5
BUGS FIXED	5
INSTALLERS WITH MD5SUMS	7
RESOURCES	22

Fix IDs

Guardium_11.4.0.0_CAS_AIX_r111103
Guardium_11.4.0.0_CAS_Debian_r111103
Guardium_11.4.0.0_CAS_HPUX_r111103
Guardium_11.4.0.0_CAS_RedHat_r111103
Guardium_11.4.0.0_CAS_Solaris_r111103
Guardium_11.4.0.0_CAS_Suse_r111103
Guardium_11.4.0.0_CAS_Ubuntu_r111103
Guardium_11.4.0.0_CAS_zLinux_r111103
Guardium_11.4.0.0_GIM_AIX_r111103
Guardium_11.4.0.0_GIM_Debian_r111103
Guardium_11.4.0.0_GIM_HPUX_r111103
Guardium_11.4.0.0_GIM_RedHat_r111103
Guardium_11.4.0.0_GIM_Solaris_r111103
Guardium_11.4.0.0_GIM_Suse_r111103
Guardium_11.4.0.0_GIM_Ubuntu_r111103
Guardium_11.4.0.0_GIM_zLinux_r111103
Guardium_11.4.0.0_S-TAP_AIX_r111103
Guardium_11.4.0.0_S-TAP_Debian_r111103
Guardium_11.4.0.0_S-TAP_HPUX_r111103
Guardium_11.4.0.0_S-TAP_RedHat-6_r111103
Guardium_11.4.0.0_S-TAP_RedHat-7-8_r111103
Guardium_11.4.0.0_S-TAP_Solaris_r111103
Guardium_11.4.0.0_S-TAP_Suse_r111103
Guardium_11.4.0.0_S-TAP_Ubuntu_r111103

Enhancements

- S-TAP now supports dynamic ring buffers, which a useful feature when there is an S-TAP buffer overflow. It is disabled by default. When enabled, up to 10 ring S-TAP buffers are created depending on memory availability. It can be enabled through GUI (Dynamic ring buffers), GIM (STAP_ENABLE_DYNAMIC_RING_BUFFERS) and guard_tap.ini file (enable_dynamix_ring_buffers).
- Guardium provides a script that simplifies setting up Kerberos for Oracle, Sybase, and DB2 databases on Linux and UNIX-type operating systems. The script makes all the required configuration updates in both the database and the S-TAP, providing an alternative to the standard Kerberos configuration procedures.
- S-TAP firewall timeout supports millisecond values. Use negative values to represent milliseconds and positive values to represent seconds where valid values are -1 to -999 and 1 to 10. For example, -50 is 50 milliseconds while 3 is 3 seconds.
- Use the S-TAP relocation feature to find and restart S-TAPs that have become unsynchronized while using enterprise load balancing. For more information about S-TAP relocation, see [Restarting \(resynchronizing\) S-TAPs for enterprise load balancing](#).

New platforms and databases supported

- Vertica 10
- CouchDB 3
- GreenPlum DB 6.10.1
- Neo4J 4
- MemSQL 7.1
- Postgre 13
- Mysql 8.0.20
- CockroachDB 20.2.3
- SAP HANA 2.0 SPS 05

Deprecated Platforms

- RHEL 5
- AIX 6

Known limitations and workarounds

Issue key	Description
GRD-55060	When S-TAP splits traffic to multiple collectors, sniffer cannot gather A-TAP and K-TAP packets because they might be sent to different collectors. As a result, ANALYZED_CLIENT_IP is blank for encrypted traffic.
GRD-52244	A-TAP is not supported for Teradata 17. Workaround: Use Teradata EXIT for version 17 and later.
GRD-54940	S-TAP buffers do not work as expected because the buffer filenames are truncated. Tip: do not change the value of the STAP_BUFFER_MMAP_FILES-TAP parameter in guard_tap.ini. It must be set to the default value of 0. Resolution: available in an upcoming release.
GRD-54842	FAM crawler cannot be installed on RHEL 8 server. Resolution: available in an upcoming release.
GRD-50907	The connect_to_ip feature is incompatible with IPv6. Resolution: available in an upcoming release.

Bugs fixed

Issue key	Summary	APAR
GRD-53997	S-TAP Cores generated in Solaris	GA17732
GRD-53349	PostgreSQL datasource falsely shows test connection as successful	GA17741
GRD-53325	Be able to turn mini level ELB debugging on/off through CLI command	
GRD-53080	Oracle Unified Audit enabled S-TAP: Sessions captured report "Session End Time" prior "Session Start Time"	GA17716
GRD-53005	Teradata Database Error Code and Database Error Text show N/A in V11.3 P315 in Teradata	GA17721
GRD-52653	Teradata system restart - Suspect of Guardium	GA17722
GRD-51738	V10.6_r108055 STAP crashing on DB2 prod database server (AIX)	GA17667
GRD-51186	"auto_install_on_db_server_os_upgrade" parameter requires documentation	
GRD-51088	Spot large ELB failover offenders in must gather	
GRD-51038	DB2 Exit - WARNING: attaching to shm[10] of 20 failed Error opening shared memory area errno=2 err=8	GA17670
GRD-50854	Db2 Exit is not collecting traffic	
GRD-50722	db2_exit_health_check.sh produces incorrect output if db_install_dir includes capital letters	GA17597

GRD-50628	GIM certificate CLI, unable to select range of servers (not specific one, or 'all')	
GRD-50120	V10.6 - Teradata EXIT Agent - PROD DB Restarted after changing STAP_DB_IGNORE_RESPONSE=ALL using GIM	GA17604
GRD-50071	Obsolete entries in GIM_CERTIFICATE_DISTRIBUTION_INFO table after GIM client removal	
GRD-49856	S-TAP LOG_WARNING: ktap query handler <HID> stopped running: Bad address; ktap query handler <HID> stopped running: No such file or directory	GA17575
GRD-49651	OS upgrade procedure for different platforms with S-TAPs installed is not clear	
GRD-49411	Incorrect Oracle Service Name captured by S-TAP using Oracle Unified Auditing interception method	GA17611
GRD-49281	Db2 Debug log is not being disabled correctly after being enabled.	
GRD-48951	Discovery is creating false IEs causing Oracle DB performance issues high Disk I/O	
GRD-48909	K-TAP module for 3.8.x family is causing a Kernel panic in loop with v11.3 (3.8.13 - 4.18)	
GRD-48844	S-TAP starts before K-TAP is loaded after reboot	GA17534
GRD-48201	Add Clarification to the KC to differentiate between ELB and S-TAP Load Balancing	
GRD-48179	Errors in FAM messages are logged into dmesg at boot time	GA17511
GRD-48148	ELB not relocating S-TAPs as expected	GA17482
GRD-48069	K-TAP dropping even with multithreading enabled	GA17603
GRD-48030	Informix EXIT traffic is being ignored with S-TAP Ignore Response enabled.	GA17497
GRD-47869	S-TAP keeps crashing in fsmon thread calling SSL_library_init() when S-TAP starts	GA17481
GRD-47785	Need to document GUI option "Restart mode" in STAP Control	
GRD-47713	Documentation improvements for the unix_domain_socket_marker and real_db_port parameters.	
GRD-47687	We need to add documentation about the <install dir>/modules/UTILS/current/files/bin/configurator.sh script	
GRD-47407	S-TAP crashes causing high CPU when sqlguard_ip is set to loopback IP	GA17447
GRD-47173	"Resource Deployment" information show "GIM Installed"=no if GIM is Installed but S-TAP/WINSTAP had been installed for the first time and failed.	GA17466
GRD-47165	Teradata Database Restart due to TD Exit	GA17457
GRD-47120	Guardium File Policies (FAM) don't allow to share policies with Guardium Roles	GA17449
GRD-46673	Connect to IP is not being evaluated with default fast TCP verdict	GA17428

GRD-46485	VCS Filesystem loading delays causing Guardium agents (GIM & S-TAP) to fail as they cannot find directory	GA17624
GRD-46475	When the custom bundle number reaches revision number 1000 the following bundles keep getting generated with revision number 1000 and GIM server refuses to register them as duplicates	GA17423
GRD-46420	Upgrading KTAP through GIM on AIX is failing due to using rsyslogd	GA17437
GRD-46177	Error messages flooding the syslog for fsmon on servers for FAM enabled	GA17439
GRD-45655	Irrelevant Session Failover message is causing DB user extraction mismatch	GA17518
GRD-44452	K-TAP loader messages not appearing correctly in GIM Events list	GA17465
GRD-43996	Cannot register a new GIM client to a GIM server that implements custom GIM certificates	GA17344
GRD-41589	S-TAP not deleted from S-TAP Control after failover and then S-TAP restarts and ELB assigns new MU(s)	GA17286

Installers with MD5Sums

f23baf332913864c49653f66aefcc6f8	consolidated_installer.sh
8d18dc3c77eef3943dab66ab6efa717e	guard-bundle-CAS-11.4.0.0_r111103_v11_4_1-aix-7.1-aix-powerpc.gim
869f07704677b99c5edb363b99a483bc	guard-bundle-CAS-11.4.0.0_r111103_v11_4_1-aix-7.2-aix-powerpc.gim
266d2ad39aa0a02c3afd19ecda0b89f5	guard-bundle-CAS-11.4.0.0_r111103_v11_4_1-debian-10-linux-x86_64.gim
37561adbd6208a72b93fcac00a592a18	guard-bundle-CAS-11.4.0.0_r111103_v11_4_1-debian-9-linux-x86_64.gim
338b28cca046ddf61ecde50179bbba97	guard-bundle-CAS-11.4.0.0_r111103_v11_4_1-hpux-B.11.31-hpux-ia64.gim
d6bf049a7a258f8ae82d12c6fab7995a	guard-bundle-CAS-11.4.0.0_r111103_v11_4_1-rhel-6-linux-i686.gim
b48558c511eca0cb70614ce2fb219a8b	guard-bundle-CAS-11.4.0.0_r111103_v11_4_1-rhel-6-linux-ppc64.gim
7eb12893ebf024506140d110b338d522	guard-bundle-CAS-11.4.0.0_r111103_v11_4_1-rhel-6-linux-s390x.gim
9e96648889b295347e8f4bb3cfa8fe7b	guard-bundle-CAS-11.4.0.0_r111103_v11_4_1-rhel-6-linux-x86_64.gim
622dcbf9acde10b916b253ab74474cb8	guard-bundle-CAS-11.4.0.0_r111103_v11_4_1-rhel-7-linux-ppc64.gim
aed6c802cc4d8c867d48579757500759	guard-bundle-CAS-11.4.0.0_r111103_v11_4_1-rhel-7-linux-ppc64le.gim
67bd32cba8e96cf55b266e0b10256b33	guard-bundle-CAS-11.4.0.0_r111103_v11_4_1-rhel-7-linux-s390x.gim
604335b421156202c357b2e814974353	guard-bundle-CAS-11.4.0.0_r111103_v11_4_1-rhel-7-linux-x86_64.gim

a6ea125f73c98a83c686f6d512e02711	guard-bundle-CAS-11.4.0.0_r111103_v11_4_1-rhel-8-linux-ppc64le.gim
ef92edce5dedff7538ca03195a5c495f	guard-bundle-CAS-11.4.0.0_r111103_v11_4_1-rhel-8-linux-s390x.gim
8e3732c2eef588736fe7271f7a9292e3	guard-bundle-CAS-11.4.0.0_r111103_v11_4_1-rhel-8-linux-x86_64.gim
1363fab65f18380bc4e3cea7eb1c7ff4	guard-bundle-CAS-11.4.0.0_r111103_v11_4_1-sunos-5.10-solaris-i386_64.gim
5702c7395aaa7ead9b1493217a1778d6	guard-bundle-CAS-11.4.0.0_r111103_v11_4_1-sunos-5.10-solaris-sparc.gim
1f938589f0060aadd04d9153d2568b67	guard-bundle-CAS-11.4.0.0_r111103_v11_4_1-sunos-5.11-solaris-i386_64.gim
fe7065c4a54e2f0d84ab2769e2a431ae	guard-bundle-CAS-11.4.0.0_r111103_v11_4_1-sunos-5.11-solaris-sparc.gim
03698e4fb507b6ecc66ac687d565e248	guard-bundle-CAS-11.4.0.0_r111103_v11_4_1-suse-11-linux-i686.gim
352af13050435d5de5e940436cc47b64	guard-bundle-CAS-11.4.0.0_r111103_v11_4_1-suse-11-linux-ppc64.gim
aa323edc54817e085cd503fc7e76a1a4	guard-bundle-CAS-11.4.0.0_r111103_v11_4_1-suse-11-linux-s390x.gim
14acc468767c3a5120eb8ae2b9908dfe	guard-bundle-CAS-11.4.0.0_r111103_v11_4_1-suse-11-linux-x86_64.gim
debb349cfd00eae3e425b2c5d12e064	guard-bundle-CAS-11.4.0.0_r111103_v11_4_1-suse-12-linux-ppc64le.gim
334de912bc52a035899daf5b1997ca53	guard-bundle-CAS-11.4.0.0_r111103_v11_4_1-suse-12-linux-s390x.gim
b5293f3b4844b7f2fab8f9c9fa0eef19	guard-bundle-CAS-11.4.0.0_r111103_v11_4_1-suse-12-linux-x86_64.gim
f678f59d85d8b5b1e93566733e48b07a	guard-bundle-CAS-11.4.0.0_r111103_v11_4_1-suse-15-linux-ppc64le.gim
8dfb7d4ff0eb931f05aa9b4fe47deb98	guard-bundle-CAS-11.4.0.0_r111103_v11_4_1-suse-15-linux-s390x.gim
1c1f2eb1c61c54a16a3f5e6dda429767	guard-bundle-CAS-11.4.0.0_r111103_v11_4_1-suse-15-linux-x86_64.gim
0be745813e720dd81bca73fe96d28418	guard-bundle-CAS-11.4.0.0_r111103_v11_4_1-ubuntu-14.04-linux-x86_64.gim
c4b23d6fa941d42a0eb43a474d648e84	guard-bundle-CAS-11.4.0.0_r111103_v11_4_1-ubuntu-16.04-linux-x86_64.gim
fe305758e7bcda39a77928b55899a654	guard-bundle-CAS-11.4.0.0_r111103_v11_4_1-ubuntu-18.04-linux-s390x.gim
363b0fe655236b952554781d86060988	guard-bundle-CAS-11.4.0.0_r111103_v11_4_1-ubuntu-18.04-linux-x86_64.gim
311c6efa2abf4a7ab50a18f7c56f7a8f	guard-bundle-CAS-11.4.0.0_r111103_v11_4_1-ubuntu-20.04-linux-s390x.gim
f420b938873df7004a2e1c52fb617f67	guard-bundle-CAS-11.4.0.0_r111103_v11_4_1-ubuntu-20.04-linux-x86_64.gim
706e869f5f497b240e430728d0e17208	guard-bundle-FAM-11.4.0.0_r111103_v11_4_1-aix-7.1-aix-powerpc.gim
fc0291149393e5e4ff8959d8cba10d12	guard-bundle-FAM-11.4.0.0_r111103_v11_4_1-aix-7.1-aix-powerpc.gim.sh

d6613bc0cd4c3cc81b053de41e2e55d7	guard-bundle-FAM-11.4.0.0_r111103_v11_4_1-aix-7.2-aix-powerpc.gim
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b37e40246e0174078c1feee09c76bac2	guard-bundle-FAM-11.4.0.0_r111103_v11_4_1-debian-10-linux-x86_64.gim
90ff9d5f663f3cb7e07e05210c938e26	guard-bundle-FAM-11.4.0.0_r111103_v11_4_1-debian-10-linux-x86_64.gim.sh
11cd563e7048bde34e611747765d1b56	guard-bundle-FAM-11.4.0.0_r111103_v11_4_1-debian-9-linux-x86_64.gim
b47ca7f36b8d12b11d19aa467d688974	guard-bundle-FAM-11.4.0.0_r111103_v11_4_1-debian-9-linux-x86_64.gim.sh
44d574e776488c0e4d7d03b17d97b3d1	guard-bundle-FAM-11.4.0.0_r111103_v11_4_1-rhel-6-linux-i686.gim
41d0f61b68ded26d5bbd89d4586d6ffb	guard-bundle-FAM-11.4.0.0_r111103_v11_4_1-rhel-6-linux-i686.gim.sh
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07a9e1a638c384f8012c9255aa5004e7	guard-bundle-FAM-11.4.0.0_r111103_v11_4_1-ubuntu-14.04-linux-x86_64.gim.sh
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9ae893aa598e19d68637eee3e63abccf	guard-bundle-FAM-11.4.0.0_r111103_v11_4_1-ubuntu-16.04-linux-x86_64.gim.sh
fb1a87dec17f5eab41a0c8adc9e03c73	guard-bundle-FAM-11.4.0.0_r111103_v11_4_1-ubuntu-18.04-linux-x86_64.gim

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541ae152f29b42955651060f85ac777b	guard-bundle-GIM-11.4.0.0_r111103_v11_4_1-aix-7.2-aix-powerpc.gim.sh
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d0f31fb6f5d089c709f60af3318766c2	guard-bundle-GIM-11.4.0.0_r111103_v11_4_1-debian-10-linux-x86_64.gim.sh
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66aea88b54f353dc0344fa6753297bc4	guard-bundle-GIM-11.4.0.0_r111103_v11_4_1-hpux-B.11.31-hpux-ia64.gim.sh
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8e6fd16d7a74bf4573155e50cc5dd3f7	guard-bundle-GIM-11.4.0.0_r111103_v11_4_1-rhel-6-linux-ppc64.gim
07f2c24e5cabd447086746f16b68c6a4	guard-bundle-GIM-11.4.0.0_r111103_v11_4_1-rhel-6-linux-ppc64.gim.sh
b4b414a7ced978941bbc0ff94b682017	guard-bundle-GIM-11.4.0.0_r111103_v11_4_1-rhel-6-linux-s390x.gim
404df2a47088c010f13fe084e8a14717	guard-bundle-GIM-11.4.0.0_r111103_v11_4_1-rhel-6-linux-s390x.gim.sh
25c29160b12ac3a58b10b14546fa1281	guard-bundle-GIM-11.4.0.0_r111103_v11_4_1-rhel-6-linux-x86_64.gim
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b8cb76fe4ede7ac66db11074eedbdbbc	guard-stap-11.4.0.0_r111103_v11_4_1-debian.sh
9151da0112fd598023114769cd050743	guard-stap-11.4.0.0_r111103_v11_4_1-hpux-B.11.31-hpux-ia64.sh
cb23d7c2259bb69fe299262f8a39fbb0	guard-stap-11.4.0.0_r111103_v11_4_1-hpux.sh
d8e637ea9e22710faa772c569ac469f9	guard-stap-11.4.0.0_r111103_v11_4_1-rhel-6-linux-i686.sh
1562aad23b6555b9fb3f5aff6559e58e	guard-stap-11.4.0.0_r111103_v11_4_1-rhel-6-linux-ppc64.sh
cdafe7556f8fed3dc16cd951693c2d2	guard-stap-11.4.0.0_r111103_v11_4_1-rhel-6-linux-s390x.sh

9a09428fef77e01ccaebf65086d8292d	guard-stap-11.4.0.0_r111103_v11_4_1-rhel-6-linux-x86_64.sh
50f51eda154ba26c375e4d082bb05b84	guard-stap-11.4.0.0_r111103_v11_4_1-rhel-7-linux-ppc64le.sh
08047325965ab758ec855f444bfe8ee8e1e54b3c548f2243bfb6e7daec288066df273e44af19b7adb311e237fafc2791	guard-stap-11.4.0.0_r111103_v11_4_1-rhel-7-linux-ppc64.sh guard-stap-11.4.0.0_r111103_v11_4_1-rhel-7-linux-s390x.sh
fb7088ab8e0221d5da0fdcf05ed61124	guard-stap-11.4.0.0_r111103_v11_4_1-rhel-7-linux-x86_64.sh
1164f16ab5137fd3d44e7890db94a2d56b30f65a81e794e864391266242a8873	guard-stap-11.4.0.0_r111103_v11_4_1-rhel-8-linux-ppc64le.sh guard-stap-11.4.0.0_r111103_v11_4_1-rhel-8-linux-s390x.sh
1117e5c126f90467521f273d58099bc3b4035be61791544bdbb0a7eb851fe04e15a571f34a315b0f4508f6becaeb992	guard-stap-11.4.0.0_r111103_v11_4_1-rhel-8-linux-x86_64.sh guard-stap-11.4.0.0_r111103_v11_4_1-rhel.sh
b1e0e7e9cf13474996dca03152cf2532	guard-stap-11.4.0.0_r111103_v11_4_1-solaris.sh
41268989d1931ccbc4c1449763871191	guard-stap-11.4.0.0_r111103_v11_4_1-sunos-5.10-solaris-i386_64.sh
c1c91330278d56ce72ce8a5c2a58bb0a	guard-stap-11.4.0.0_r111103_v11_4_1-sunos-5.10-solaris-sparc.sh
3538812ad59ec247eef07ce1031849552a81a7594bc40b9c12a32f4de38e802b	guard-stap-11.4.0.0_r111103_v11_4_1-sunos-5.11-solaris-i386_64.sh
c1d6dc4d37b9250fc9d0c0e3d08efb94	guard-stap-11.4.0.0_r111103_v11_4_1-sunos-5.11-solaris-sparc.sh
98399edaa0e39d8db7ba0265dbd7b1f2	guard-stap-11.4.0.0_r111103_v11_4_1-suse-11-linux-i686.sh
6270bc7015c7993afce173d3b4e253de	guard-stap-11.4.0.0_r111103_v11_4_1-suse-11-linux-ppc64.sh
e01f601b181b87f1734351681fbc0826	guard-stap-11.4.0.0_r111103_v11_4_1-suse-11-linux-s390x.sh
db42046f32060e78cc812a4daad85a37	guard-stap-11.4.0.0_r111103_v11_4_1-suse-12-linux-x86_64.sh
909748482a1065178f5a82ee84f3690b	guard-stap-11.4.0.0_r111103_v11_4_1-suse-12-linux-ppc64le.sh
9c2d2e2afa88811de8f7e1e69e267569	guard-stap-11.4.0.0_r111103_v11_4_1-suse-15-linux-s390x.sh
1fc80653066fe0cc22ffaea405d5366c	guard-stap-11.4.0.0_r111103_v11_4_1-suse-15-linux-x86_64.sh
283d16602ad9a4a34f473dc0ac59adb45c74191440023a7e1516c747a8e13bff	guard-stap-11.4.0.0_r111103_v11_4_1-suse.sh
176b6a3f79267d6a67d5f4663f918981	guard-stap-11.4.0.0_r111103_v11_4_1-ubuntu-14.04-linux-x86_64.sh
b1f5c057bbdec391438f7a407c2cf67e	guard-stap-11.4.0.0_r111103_v11_4_1-ubuntu-16.04-linux-x86_64.sh
	guard-stap-11.4.0.0_r111103_v11_4_1-ubuntu-18.04-linux-s390x.sh

02606b8f5fdd6aa6719c370d46cd0d3c	guard-stap-11.4.0.0_r111103_v11_4_1-ubuntu-18.04-linux-x86_64.sh
26a114107590754936ad1dc066b4e92d	guard-stap-11.4.0.0_r111103_v11_4_1-ubuntu-20.04-linux-s390x.sh
295fca3858947ee0d1766f341a7297b3	guard-stap-11.4.0.0_r111103_v11_4_1-ubuntu-20.04-linux-x86_64.sh
5d822d428df8467032200f272d5f6f0e	guard-stap-11.4.0.0_r111103_v11_4_1-ubuntu.sh
0d25a6377ebaf74a3f921e443d951aa9	guard-stap-11.4.0.0_r111103_v11_4_1-zlinux.sh
7c5d969f1062374ba8c00c6783d9ba4d	ktaposmatch.csv
de76e329351c667865f7673387237d75	modules-11.4.0.0_r111103_v11_4_1.tgz

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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