Voltage Database Activity Monitoring

Software Version 23.4.0

Admin Guide

opentext[™]

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Documentation updates

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Introduction

This manual is targeted for the person responsible for evaluating, installing, and maintaining OpenText[™] Voltage[™] Database Activity Monitoring (VDAM) in a company. Typically, this document refers to this person as the Voltage DAM administrator.

Abbreviations

Information about the abbreviations used in this guide is given in the table below.

Abbreviations	Definition
DAM	Database Activity Monitoring
DSIM	Installation Manager
DSPL	Preload Library
DSTAP	Log Analysis Motor
DSTOOL	General Agent Commands
LDAP	Lightweight Directory Access Protocol

DSTAP Agent Installation

DSTAP Agent installation stages are explained separately for Linux and Windows below:

- DSTAP Agent Installation on Linux
- DSTAP Agent Installation on Windows

DSTAP Agent Installation on Linux

Determining the Installation Package

The relevant package should be selected according to the server where the agent will be installed. During package selection, the part starting with release xxx contains the name and version of the compatible operating system. Following this value, infrastructure information and agent version are specified.

Ad	Değiştirme tarihi	Tür	Boyut
🔋 release- <u>aix72-ppc-</u> 3485.zip	7.04.2021 09:38	Sıkıştırılmış Klasör	4.354 KB
release-el6-3485.zip	7.04.2021 09:40	Sıkıştırılmış Klasör	3.030 KB
release-el7-3485-dbg.zip	7.04.2021 09:41	Sıkıştırılmış Klasör	5.508 KB
💡 release-sl12-ppcle-3485.zip	7.04.2021 09:42	Sıkıştırılmış Klasör	3.811 KB
💡 release-sl15-3391.zip	28.01.2021 10:07	Sıkıştırılmış Klasör	3.116 KB
💡 release-sun113-sparc-3485.zip	7.04.2021 09:43	Sıkıştırılmış Klasör	3.741 KB

Determination of Operating System Version

A ssh connection is made to the relevant server and the version is determined with the following command.

uname -a

coot@oracle-test ~]# uname -a inux oracle-test 4.1.12-124.15.2.<u>el7uek.x86 64</u> #2 SMP Tue May 22 11:52:31 PDT 2018 x86 64 x86 64 x86 64 GNU/Linux

OpenSSL Version Check

Voltage DAM Linux agent supports OpenSSL 1.0.2+ versions. Users can check OpenSSL verison with the following command.

openssl version



Opening the Agent Package

Agent packages should be sent to the Linux server in .zip format. The package should be unpacked with the following command.

unzip release-e17-3485.zip

[root@oracle-test Dataskope]# ls release-el7-3485.zip [root@oracle-test Dataskope]# unzip release-e17-3485.zip Archive: release-el7-3485.zip creating: release-e17-3485/ inflating: release-e17-3485/configure.sh inflating: release-el7-3485/deploy.list inflating: release-el7-3485/deploy.sh inflating: release-e17-3485/deploy defaults.sh inflating: release-el7-3485/deploy dsim.sh inflating: release-el7-3485/deploy dspl.sh inflating: release-e17-3485/deploy dsplth.sh inflating: release-e17-3485/deploy dstap.sh inflating: release-e17-3485/deploy dstool.sh inflating: release-el7-3485/deploy tools.sh inflating: release-el7-3485/dsim-chkconf.sh inflating: release-e17-3485/dsim-logrotate.conf inflating: release-e17-3485/dsim-method.sh inflating: release-el7-3485/dsim-smf.xml inflating: release-e17-3485/dsim-systemd.service inflating: release-el7-3485/dsim-upstart.conf inflating: release-e17-3485/dsim.conf inflating: release-el7-3485/dsim.signed inflating: release-el7-3485/dsim server.pfx inflating: release-el7-3485/dsplno32.signed inflating: release-e17-3485/dsplno64.signed inflating: release-el7-3485/dstap.conf inflating: release-el7-3485/dstap.signed inflating: release-el7-3485/dstool.signed inflating: release-el7-3485/gencert.sh inflating: release-el7-3485/libdspl.so.signed inflating: release-el7-3485/libdsplth.so.signed inflating: release-el7-3485/postfilter.conf inflating: release-el7-3485/postfilter.list inflating: release-el7-3485/uninstall.sh [root@oracle-test Dataskope]#

Granting Executable Authorisation to Installation Files

Executable authorisation should be given to the .sh files in the package using the following command. For this, the following commands should be run respectively.

```
# cd release-e17-3485
```

chmod +x *.sh

[root@oracle-test Dataskope]# cd release-e17-3485/ [root@oracle-test release-e17-3485]# chmod +x *.sh [root@oracle-test release-e17-3485]#]

Determination of Network Interfaces to be Listened

As a working principle, DSTAP listens to all packets reaching the selected network interfaces and filters the ones related to the database. At this stage, to optimise the resources to be used by the agent, only the necessary (database accessible) network interfaces should be selected. With the following command, the active network interfaces on the server are determined and the network interfaces related to the database are noted by evaluating with the server administrator. In the following example, eth0, eth1 and lo interfaces will all be listened.

```
# ifconfig -a
```



Pre-Installation Configuration

The necessary parameters must be defined before installation. The configure.sh file included in the agent package is run with the following command and the settings about how the agent will work are made.

./configure.sh

Press y.

<pre>[root@oracle-test release-e17-3485]# ./configure.sh</pre>	
Following configuration will be used:	
* Messages transport : 1 (file)	
<pre>* Infraskope Server IP: 0.0.0.0 * DSIM control-if port: 8765</pre>	
<pre>* DSIM server cert pwd: 1234qqqqQ!! * Start DSTAP on boot : yes</pre>	
* Enable DSPL library : no	
Would you like to modify default deployment settings? $[y/N]$:	У

Defining Network Interfaces

The noted network interface names are entered separated by commas.

Enter comma-separated list of network devices to work on (for example: lo,eth0) or press [ENTER] to use default(lo,eth0): lo,eth0,eth1

Determining Log Transmission Mode

The Voltage DAM agent can transmit logs in two different modes. The transmission mode is selected according to the need. Details about transmission modes are given in the below.

- File: Logs are collected and compressed on the server and stored in different files. These files are labelled with a time tag.
- **Syslog** (Not Recommended): Logs are collected and sent to the Voltage DAM server via the Syslog protocol.

Select message transport type (l=file, 2=syslog) or press [ENTER] to use default(l):

Defining Voltage DAM Server IP Address

If Syslog is selected as the log transmission method, the Voltage DAM server IP address must be defined. If File is selected as the log transmission method, the IP address can be left blank.

Enter IP address of the Infraskope Server or press [ENTER] to use default(0.0.0.0):

Figure 1: Defining Voltage DAM Server IP Address

Defining the DSIM Transport Port

The DSIM component is used to run the functions required for remote management of the agent on the database. These functions and their details are described in . Port can be left as default 8765. If it is required to communicate over another port, the relevant port is entered.

Enter port number for dsim control interface or press [ENTER] to use default(8765):

Figure 2: Defining the DSIM Transport Port

Defining the Password of the DSIM Certificate

The DSIM component executes commands from the remote server over a secure channel. For this reason, it uses the dsim_server.pfx certificate included in the installation package. Users can continue by entering the password of this certificate. When a new certificate is created, the password entered in this field is used again.

Enter password for dsim server certificate file or press [ENTER] to use default(1234qqqQ!!):

Automatic Start of DSTAP

By default, the DSTAP agent is started automatically during Linux boot. Depending on the requirements, this setting should be set to "y" or "n".

Start DSTAP automatically on system boot and after installation? [Y/n]: y

DSPL Active/Passive Selection

DSPL is for monitoring local connections (other than IP protocol) on the server. The details of this feature are described in . This feature is selected as on or off according to the need. The relevant setting must be entered as "y" or "n".

Would you like to enable Dataskope Preload Library (DSPL)? [y/N]: y

Creation of DSIM Certificate

By default, a certificate named dsim_server.pfx is included in each installation package and there is no need to change it for installation. To use a certificate other than the default for security reasons, a new certificate is created by entering "y" in this section. The password of the generated certificate is the same as the password entered in Defining the Password of the DSIM Certificate.

```
Following configuration will be used:
 * Network devices list: lo,eth0,eth1
 * Messages transport : l (file)
 * Infraskope Server IP: 0.0.0.0
 * DSIM control-if port: 8765
 * DSIM server cert pwd: l234qqqQ!!
 * Start DSTAP on boot : yes
 * Enable DSPL library : yes
New settings written to deploy_defaults.sh
Would you like to generate new client/server certificates for dsim? [y/N]: n
Configure done.
```

Starting the Installation

To start the installation with the configurations made in the previous step, the deploy.sh file in the package is run with the following command and "n" is entered. If there are no errors during the installation, the result will be as follows.

./deploy.sh

Would you like to modify settings before proceeding? [y/N]: n Stopping service: dsim Waiting for dstap to exit... installing dstap binary to /usr/bin/dstap Installing dstap configs to /etc/dataskope/ File-based message transport selected All done. Detected init system: systemd Detected OS: RHEL7 Stopping service: dsim Installing dsim binary to /usr/bin/dsim Installing dsim configs to /etc/dataskope/ with control port=8765 Please make sure port TCP/8765 inbound is open... Installing systemd service: dsim You can now control dsim service with the following commands: sudo systemctl start dsim sudo systemctl stop dsim sudo systemctl status dsim Starting service: dsim All done. Installing libdspl.so to /lib64/libdspl.so All done. Installing libdsplth.so to /lib64/libdsplth.so Installing 32-bit no-op lib to /lib/libdsplth.so All done. Updating dstool at /usr/bin/dstool

[root@oracle-test release-e17-3485]#

Checking the Installation

After installation, users can view the status of the services with the following commands.

OS	Command
Linux el6	<pre># initctl status dsim</pre>
Linux el7-el8	<pre># systemctl status dsim</pre>
AIX 7+	# lssrc -s dsim

SunOS	# ps -ef grep dsim
	# ps -ef grep dstap
Suse	# systemctl status dsim

```
[root@oracle-test release-e17-3485] # systemctl status dsim
• dsim.service - Dataskope Installation Manager Service
Loaded: loaded (/etc/systemd/system/dsim.service; enabled; vendor preset: disabled)
Active: active (running) since Tue 2021-06-08 11:06:22 +03; 2min 41s ago
Main PID: 8021 (dsim)
CGroup: /system.slice/dsim.service
-8021 /usr/bin/dsim
-8046 /usr/bin/dstap -d
Jun 08 11:06:22 oracle-test systemd[1]: Started Dataskope Installation Manager Service.
Jun 08 11:06:22 oracle-test systemd[1]: Starting Dataskope Installation Manager Service...
```

Default Directory of Logs

The default directory is /var/spool/dataskope and logs are compressed and stored in this directory. The file naming format is message-xxxxxx. When the file is first created, it is named as "message" and when the file is closed, the name is added according to the timestamp. This directory can be changed in dsim.conf and dstap.conf if needed according to the server disc structure. After changing the setting, DSIM and DSTAP must be restarted.



Using DSTOOL

DSTOOL is used to perform some checks related to the agent. DSTOOL is used for purposes such as clean removal of the Voltage DAM agent, checking file integrity and permissions. Commands and their descriptions can be accessed with the following command.

```
# dstool --help
```

[root@oracle-test da	taskope]# dstoolhelp
Options:	
mkhash	Creates a cryptographic signature of binary file.
out	- Path to write hash to
obj	 Path to binary file to make signature of
pvk	- Path to private key to be used in signature creation
mkver	Creates a version data to be embedded into binary file.
out	- Path to write version data to
id	- App identity. Allowed values: dsim, dstap, dspl
ver	 App version in format: x.x.x.x (where x is a number)
05	- Target OS. For example: EL7, SUN113
arch	- Target architecture. Allowed values: x86, ppc, ppcle, sparc
cfg	 Build configuration. Allowed values: debug, release
mkres	Compile a resource file to be embedded into binary file.
in	- Path to resource definition file
out	 Path to write compiled resource to
check	Validate cryptographic signature of binary file.
obj	 Path to binary file whose signature to check
-q,quiet	- Perform operation quietly (if possible)
noprelink	Disable(blacklist) prelink for given executable
obj	- Path to binary file to add to prelink blacklist
dump obj	Dump sections of binary file into separate files named after section names - Path to binary file whose sections to dump
svc_type	Detect startup service management (init) system on current system
svc_add	Add service to the system and enable automatic startup
name	- Service name
cfg	- Paths to config files for the service, comma-separated for miltiple files
svc_del	Remove service from the system
name	- Service name
svc_on	Enable automatic service startup
name	- Service name
svc_off	Disable automatic service startup
name	- Service name
status	Check Dataskope components available on current system
dspl_on	Enable DSPL module (it needs to be already installed on target system)
dspl_off	Disable DSPL module (does not remove the module itself)
dspl_clean	Disable DSPL module and remove binaries (legacy and new)
-v,version	Show program version info
-h,help	Show this help message

DSTOOL File Integrity and Permission Check

The integrity, version and permission checks of the executable files required for the Voltage DAM agent to run are done with DSTOOL. This control can be achieved with the following command. The output on a reliable server will be as follows.

dstool status

root@oracle-test dataskope]# dstool status
/usr/bin/dsim 2,215,736 (4711), dsim-1.1.0.3485-x86-64-EL7-Release, valid, running (8021)
/usr/bin/dstap 3,483,072 (4711), dstap-1.1.0.3485-x86-64-EL7-Release, valid, running (8046)
/usr/bin/dstool 1,461,976 (711), dstool-1.1.0.3485-x86-64-EL7-Release, valid, running (24907)
/lib64/libdsplth.so 30,616 (4755), dsplth-1.1.0.3485-x86-64-EL7-Release, valid, not running
/lib64/libdspl.so 1,716,480 (755), dspl-1.1.0.3485-x86-64-EL7-Release, valid, not running
/lib/libdsplth.so 1,852 (4755), dsplno-1.1.0.3485-x86-32-EL7-Release, valid, not running
DSPL status: Enabled:Global

Removing the Voltage DAM Agent

DSTOOL is used for clean removal of the Voltage DAM agent. A clean removal can be performed with the following command.

dstool cleanup_host

[root@oracle-test dataskope]# dstool cleanup host

DSTAP Agent Installation on Windows

Pre-Installation Configuration

Voltage DAM SQL Agent uses Microsoft SQL Server Extended Events infrastructure. Logs reaching the database are logged by the baykus session. Baykus session is created by the agent within the framework of certain authorisations. For this reason, the following authorisation definition must be made on SQL Server, and the following SQL command must be executed with administrator privileges:

SQL Version	Command
SQL 2008 R2	USE [master] CREATE LOGIN [NT AUTHORITY\SYSTEM] FROM WINDOWS WITH DEFAULT_DATABASE=[master] GRANT CONTROL SERVER TO [NT AUTHORITY\SYSTEM]
SQL 2008 R2+	USE [master] CREATE LOGIN [NT AUTHORITY SYSTEM] FROM WINDOWS WITH DEFAULT_DATABASE=[master] GRANT ALTER ANY EVENT SESSION TO [NT AUTHORITY SYSTEM]

Voltage DAM SQL Agent Installation

Installation can be done by running the following command with command prompt from the directory where the installation package is located. Installation parameters are defined according to needs.

msiexec /i Dataskope SQL Agent Se tup.msi " PASSWORD=1234qqqQ!!

STORAGEPATH=" C: ProgramData Karmasis Dataskope MsgStorage

OUTPUTMODE="filestorage"

WEBSERVICEURL="http://192.168.50.10/ElfWebService/default.asmx"

CREATEDSIMTASK=true

- 1. Default certificate password is set.
- 2. The directory where logging will be done by Voltage DAM SQL Agent is determined.
- 3. The method of logging is determined (filestorage | msmq). Default filestorage.
- 4. When **msmq** logging is selected, **WEBSERVICEURL** should be entered and **TCP 1801**, **TCP 80** ports should be opened towards Voltage DAM Collector machine.
- 5. DSIM restart option.

← → ∨ ↑ 📜 > Dataskope SQL Agent						
^	Name	Date modified	Туре	Size		
📌 Quick access		2/25/2010 4:05 PM	Mindaus Installer	2.004 KD		
🔜 Desktop 🛛 🖈	I Dataskope SQL Agent Setup.msi	3/26/2019 4:06 PM	windows Installer	3,884 KB		
🕹 Downloads 🛛 🖈	🎲 dsim_server.pfx	3/10/2019 4:25 PM	Personal Informati	6 KB		
	🔄 setup.exe	3/26/2019 4:06 PM	Application	531 KB		

Introducing the Voltage DAM Agent

Voltage DAM Agent does not start any log collection after it is installed with default settings (unless the postfilter.conf file is modified). To define log collection policies and for the collector to recognise the agent, the agent must be added to the panel after installation and initial configuration must be made.

Adding Voltage DAM Agent to the Panel

After the Voltage DAM agent is installed on the database server and the DSIM service is verified to be running, Voltage DAM is opened, and the agent is introduced with the New Agent button on the Voltage DAM panel.

New Agent Wiz	zard			>	<	
Connect	Connection					
Enter the conn	ection inform	nation to connect to the agent				
IP Address:	192.168.1.74		:	8765]	
Protocol:	TLS 1.2			~		
Certificate	ault certificate	Use new default certificate Upload certificate Use old certificate Use new certificate				
Client Certificat	te:		B	rowse		
Password:						
					1	
			CANCEL	NEXT >		

Ref.	Field	Function
1	IP Address	The real IP address of the database server is entered so that the collector and the administration panel can communicate with the agent. The IP address can be any IP address used to access the

		database server. If port forwarding is used, the IP address of the router must be entered.
2	Port	In the default settings, the access port is set as "8765". For port forwarding or similar needs, the port specified during agent installation may be a value other than the default. In this case, the port specified during installation is entered.
3	Use new default certificate, Client Certificate	The Voltage DAM agent and the collector talk over an encrypted channel. When adding an agent via the panel, the default certificate can be used, or a special certificate can be created for that agent. Default certificate usage is explained in detail in Default Certificate.
4	Certificate Password	This is the field where the certificate password is entered for the agent. If a default certificate is selected, it is not necessary to define any password.

Listener Settings

Select the databases you want to collect logs

pcap.devices	*	ì
oracle.enabled	✓	
oracle.server_port	1521	
mysql.enabled		
mysql.server_port	3306	
postgre.enabled		
postgre.server_port	5432	
mssql.enabled		
mssql.server_port	1433	_
	CANCEL < BACK NEXT >	

Ref.	Field	Function	
5	pcap.devices	Comma-separated list of capture devices.	

6	oracle.enabled	Enable captures on Oracle ports and Oracle parsing engine.
7	oracle.server_ port	Comma-separated list of ports on which Oracle instances are working.
8	mysql.enabled	Enable captures on MySQL ports and MySQL parsing engine.
9	mysql.server_ port	Comma-separated list of ports on which MySQL instances are working.

Listener Settings

Select the databases you want to collect logs hana.enabled hana.server_port 39015 mongo.enabled 27017 mongo.server_port cassandra.enabled 9042 cassandra.server_port vertica.enabled 5433 vertica.server_port db2.enabled CANCEL < BACK NEXT >

Ref.	Field	Function
10	hana.enabled	Enable captures on HanaDB ports and HanaDB parsing engine.
11	hana.server_port	Comma-separated list of ports on which HanaDB instances are working.
12	mongo.enabled	Enable captures on MongoDB ports and MongoDB parsing engine.
13	mongo.server_port	Comma-separated list of ports on which MongoDB instances are working.

14	cassandra.enabled	Enable captures on Cassandra ports and Cassandra parsing engine.
15	cassandra.server_ port	Comma-separated list of ports on which Cassandra instances are working.
16	vertica.enabled	Enable captures on Vertica ports and Vertica parsing engine.
17	vertica.server_port	Comma-separated list of ports on which Vertica instances are working.
18	db2.enabled	Enable captures on DB2 ports and DB2 parsing engine.

Listener Settings

Select the databases you want to collect logs

db2.server_port	50000	
couchbase.enabled		
couchbase.server_port	4369	
teradata.enabled		
teradata.server_port	1025	
elastic.enabled		
elastic.server_port	9200	
netezza.enabled		
netezza.server_port	5480	
		Ť
		IFYT >

Ref.	Field	Function
19	db2.server_port	Comma-separated list of ports on which DB2 instances are working.
20	couchbase.enabled	Enable captures on Couchbase ports and Couchbase parsing engine.
21	couchbase.server_ port	Comma-separated list of ports on which Couchbase instances are working.

22	teradata.enabled	Enable captures on Teradata ports and Teradata parsing engine.
23	teradata.server_port	Comma-separated list of ports on which Teradata instances are working.
24	elastic.enabled	Enable captures on Elasticsearch ports and Elasticsearch parsing engine.
25	elastic.server_port	Comma-separated list of ports on which Elasticsearch instances are working.
26	netezza.enabled	Enable captures on Netezza ports and Netezza parsing engine.
27	netezza.server_port	Comma-separated list of ports on which Netezza instances are working.

Listener Settings

Select the databases you want to collect logs

elastic.enabled		-
elastic.server_port	9200	
netezza.enabled		
netezza.server_port	5480	
gauss.enabled		
gauss.server_port	1888	
sybase.enabled		11
sybase.server_port	5000	
msg.file.max_age	1	
		T >

Ref.	Field	Function
28	gauss.enabled	Enable captures on GaussDB ports and GaussDB parsing engine.
29	gauss.server_ port	Comma-separated list of ports on which GaussDB instances are working.
30	sybase.enabled	Enable captures on SybaseSQL ports and SybaseSQL parsing

		engine.
31	sybase.server_ port	Comma-separated list of ports on which SybaseSQL instances are working.
32	Msg.file.max_age	Maximum file age in minutes before rotation.

New Agent Wizard × **Policy Settings** Choose a policy for the agent Policy: oracle - Dataskope Default Policy for Oracle Server × Selected Policy Rules: 1 # Uncomment example rules to make them active or try adding your own rules. 2 # Rules work same way as in firewall: for every captured message, first rule that matched is a 3 # 4 # Rule may contain 1-3 segments: # 1st: action: can be 'allow', 'logsession', 'drop'. 'logsession' is similar to 'allow' but it 5 6 If 2nd segment is not specified, then it's a default behavior, because it will be uncon # 7 -8 # 2nd: name of the field to check in message. If 3rd segment is specified, then its value is a 9 # Name may be prepended by following: 10 ! - reverse condition: if 3rd segment is specified field's value should NOT contain p # 11 ** < - less than: field's length should be less than N chars, value of N is specified as > - greater than: field's valie should be present and its length should be greater th 12 # 13 ** conclude on field's value. The field name is proported with 1/1 on 1 ¥1 CANCEL < BACK NEXT >

Policy Settings: Voltage DAM agent logs or does not log the queries sent to the database according to the specified policies.

New Agent Wizard					
Collector Settings					
Enter settings and create new agent					
Cluster Name:	Suppress Inactivity Event Minutes:				
New cluster name	60				
Max Idle Minutes:	Idle Threshold Minutes:				
10	10				
Suppress File Info Event Minutes:	Suppress Status Event Minutes:				
1	60				
Tag					
Type a tag					
	CANCEL < BACK FINISH				

Ref.	Field	Function
1	Cluster Name	If the database server configuration is designed as "Failover", this information should be given to the cluster. For example, if there are two SQL Database servers and they work in active/passive mode, the common name of these two servers (Cluster Name) should be entered in the relevant field.
2	Suppress Inactivity Event Minutes	To generate an alarm if the DSTAP agent is inactive for a certain period. If the DSTAP agent appears to be switched off for the time entered here in minutes, an alarm is generated. Event ID:2020
3	Max Idle Minutes	If the collector cannot collect logs from the relevant agent for the specified time, an alarm is generated. After how many minutes this alarm is desired to be generated, this value should be entered in minutes.
4	ldle Threshold Minutes	When the Voltage DAM agent becomes inactive, an alarm is generated after the specified time. This value should be entered in minutes after how many minutes the related alarm is desired to be generated.
5	Suppress File Info Event Minutes	This is the event information that is sent whether the Voltage DAM agent message files are accumulated on the relevant database server or not. This value should be entered in minutes if the related alarm is desired to be generated accordingly.

6	Suppress Status Event Minutes	It is the event where Voltage DAM agent health status information is received in detail. This value should be entered in minutes if the relevant alarm is desired to be generated accordingly.
7	Tag	Allows adding a tag for distinctive use.

Default Certificate

A generic client certificate can be defined for agents to use by default. This certificate can be created specifically for the organisation and protected with a password specific to the organisation. If this setting is made during the first installation, agents can be added to the panel using this certificate.

Agents				
Agents Policies Options				
Default Certificate				
Used for agents older than version 3.	2.0.4084			
Certificate *				
dsim_client.pfx file selected.		Remove		
Password *				
••••••				
	SAVE	CANCEL		
Used for agents of version 3.2.0.4084	and higher			
Certificate *				
dsim_client.pfx file selected. Remove				
Password *				
•••••				
	SAVE	CANCEL		

Voltage DAM Agent Detailed Information Screen

Detailed information of the desired agent can be accessed through the panel. Since server information can be displayed in this area, agent configuration can be done more accurately.



Ref.	Menu	Function
1	General Information [OS Name, Type, OS Release, OS Version, CPU Cores, Physical RAM]	The detail screen displays the operating system name, type, version, number of cores and physical memory information of the server.
2	Storage Location	On the detail screen, it is displayed in which directory on the server of the relevant agent to extract the message files. The default directory is /var/spool/dataskope directory.

3	Total Capacity	From the detail screen, the total size of the directory where the agent will extract the message files for the relevant server can be displayed.
4	Free Space	From the detail screen, the total remaining size of the directory where the agent will extract the message files for the relevant server can be displayed.
5	DSPL	The DSPL status of the agent for the corresponding server can be displayed.
6	Last Contacted	The last time the agent contacted the collector can be displayed.
7	Last Known Alive	The last time the agent transmitted status information can be displayed.
8	Last Inactivity Reported	Used to show the last time the agent was inactive.
9	Last File Info Reported	Used to show when the agent last transmitted the file information in the logging directory.
10	Collector	Shows the hostname of the machine where Collector is installed.

Advanced Configuration of the Voltage DAM Agent

DSIM and DSTAP operating states can be displayed, as well as real-time control of DSTAP can be performed and output.

opentext Volt	opentext Voltage Database Activity Monitoring (Karmasis Internal)						
=	Agents						
A Home	Agen	Agents Policies Octoons					
Q, Search	AG.	INTS				DETAILS	
13 Alerts	G	ouped by: Datab	A			DSIM (Runnin	(a)
88 Dashboards		DSTAP Status	DSIM Status T	Host Name	T Database T	Status: Running	· .
🛱 Agents	^	N/A (1)				DSIM Version: 3.3.0.434	
Alert Rules		Unknown	Unknown	ubuntutest	N/A	DSIM Started: 2023-104	04 14 11 55
P Mappings	^	oracle (3)				· · · · · · ·	
() Index line		Alve	Running	aix72_test	oracie	DSTAP (Alive)	
() Lookup Lists		Unknown	Unknown	orade11g	osde	Status Alive	
Settings		Unknown	Unknown	oracle19	oracle	DSTAP Version: 3.3.0.434	
	^	SQLSERVER (1)				DSTAP Started: 2023-08	-08 10:03:03
		Alive	Running	DATASKOPE-TEST4	SQLSERVER	Realtime Discourt	in a sur A sure
	^	vertica (1)				· Reatonie Oragitoso	G G Sar G blor
		Unknown	Unknown	vertica-test	vertica	CPU Usage: Resident Memory	0.02%
						Virtual Memory:	266.08 MB
						Messages Dropped	0
						Messages Sent	0
						Packets Captured:	2
						Packets Dropped:	0
						Packets Queue Count	0
						Memory Queue Counts	0.6
						TCP Recon Count	2
						TCP Recon Memory:	0.6
						TCP Session Dropped:	1
						This Buffer Memory: This Service Count	1
						Message Output Count	
						May Packet Size	64.8
						Message Counters	0
	14	< > ×			Face 1 of 1	d_tcp_sess_killed	0
							Ÿ

Ref.	Field	Function
1	CPU Usages	The CPU status used by the agent in real time can be observed.
2	Resident Memory	The memory state used by the agent in real time can be observed.
3	Virtual Memory	In addition to the current memory usage of the agent, it is used to show the memory state that can be used when necessary.
4	Messages Dropped	The number of messages that are not logged by the agent with the policy can be observed.
5	Messages Sent	The number of messages logged by the agent with the policy can be observed.
6	Packets Captured	Shows the number of TCP packets captured.

7	Packets Dropped	It is possible to observe the number of TCP packets that are somehow not inserted into the log analysis engine by the agent (corrupted packets, etc.) and the number of dropped TCP packets.
8	Packets Queue Count	The number of packets waiting to be sent by the agent to the log analysis engine can be observed. This situation may vary according to server density.
9	Memory Queue Count	The number of packets waiting to be processed in memory can be observed by the agent. This situation may vary according to server density.
10	TCP Recon Count	This value is related to the packet header information sent one time when a connection is made to the database. As the number of connections increases, this value will also increase. If this value is too high (e.g., 1000000) it may cause the agent to stop. This parameter should be checked in case of high memory usage.
11	TCP Recon Memory	Specifies how much memory the mechanism described in TCP Recon Count. A high value of this parameter may cause the agent to stop. This parameter should be checked in case of high memory usage.
12	TCP Session Dropped	The number of TCP sessions dropped out by the agent can be observed. The TCP header is dropped when the connection terminates, or when an invalid packet header is encountered (e.g., connections made before the agent starts).
13	TNS Buffer Memory	Session information sent during the initial connection is held for use in this field. When the session ends, this field is cleared. If there are too many sessions, this value may be high. However, it should not exceed GB.
14	TNS Session Count	Indicates the total number of sessions since the Voltage DAM agent last started. If there are ongoing sessions that occurred before the agent started, they are not counted.
15	Message Queue Count	The number of messages waiting in the queue can be observed.
16	Max Packet Size	The maximum package size processed by the agent can be observed.
17	Message Counter	Linux-based agents have switched to logging in timestamp logic after version 3413. Windows-based agents continue to work in counter logic.
18	d_tcp_ sess_killed	Shows the number of killed TCP connections.

Voltage DAM Agent Management Functions

Voltage DAM agents can be managed in detail without depending on the database administrator. Use right-click to reach detailed actions.

opentext Volt	opentext Voltage Database Activity Monitoring (Karmasis Internal) Popupa: 💽 Off							
=	Agents							
🕅 Home	Ager	Agents Policies Options						
Q Search	AG	ENTS						DETAAS #
13 Nerts	G	rouped by: Data	base					A DSIM (Running)
B Deshboards		DSTAP Status	DSIM Status 1	F Host Name	T Database T			fature Bussies
E. Acents		N/A (1)						District 33.0.034
A		Unknown	Unknown	ubuntutest	N/A			USIM Version: 3.3.0.4.346
Alert Rules		oracle (3)						DSIM Started: 2023-10-04 14:11:55
🔁 Mappings		· Alive	Russina	alu72 test	oracle	Maria		DSTAP (Alive)
() Lookup Lists		Unknown	Unknown	oracle11g	oracle	A Tools	2	Status: Alive
Settings		Unknown	Unknown	oracie19	oracle	Push Config File		OSTAP Version: 3.3.0.4348
	~	SQLSERVER (1)				th Pull Config File		DSTAP Started 2023-08-08 1003-03
		Alive	Running	DATASKOPE-TEST4	SQLSERVER	@e Edit Config	>	
		vertica (1)	,			Edit Settings	>	\land Realtime Diagnostics 🕲 Start 📥 Export
		• 10 mm (1)			- antica	L Edit Policy		CPU Usage: 0.02%
		 Unknown 	 Unknown 	vertica-test	vertica	Remove Policy		Resident Memory: 266.5 MB
						O Deploy New Certificate		Virtual Memory: 266.08 M8
						O Check Status	-	Messages Dropped: 0
						Start		Messages Sent: 0
						Stop		Packets Captured: 2
						Restart		Packets Dropped: 0
						S Restart Manager		Packets Queue Count: 0
						Deploy Agent	>	Memory Queue Count: 0 b
						O Revert Agent	>	TCP Recon Count: 2
						图 DSPL	>	TCP Recon Memory: U b
						🖶 Get Logs		TNS Buffer Memory 0 h
						🖏 Purge Diagnostic Log		TNS Session Count 1
						E Trace	>	Message Queue Count: 0
						Delete		Max Packet Size: 64.8
						Troperties		Message Counter: 0
	н	< • × ×					Page 1 of 1	d_tcp_sess_killed 0
							inge i an i	Y

Ref	Field	Function
1	Tools	SSH connection to the server can be made with a username and password. A Read-Only user is sufficient for certain settings and status views of the agent.
2	Push Policy	A changed policy is normally automatically applied to the agent. However, when this process fails for some reason, policy transmission to the agent can be provided again with the relevant feature.
3	Push Config	It allows the agent's configuration files (dstap.conf, postfilter.conf etc.) to be

	File	sent to the server. The file is sent after it is selected. It may be necessary to restart the agent according to the content and purpose of the modified file.
4	Pull Config File	It allows the agent configuration files (dstap.conf, postfilter.conf etc.) to be downloaded from the server.
5	Edit Config	With the help of this feature, both DSIM and DSTAP configuration editor screen can be opened and the settings that need to be changed or the settings that need to be added can be added to the agent. This feature is more detailed in Linux based agents.
6	Edit Settings	With the help of this feature, both DSIM and DSTAP setting screen can be opened and the settings that need to be changed or the settings that need to be added can be added to the agent. See DSIM Advanced Settings and DSTAP Advanced Settings for more details.
7	Edit Policy	Used to assign and edit a policy to the agent. For example, users have created an Oracle policy and applied it to the relevant agents. The point to be considered here is which policy is modified. The change is applied to all agents under the same policy. See Organisation of the Agent's Policy for more details.
8	Remove Policy	The policy applied to the agent can be deleted and a new policy may be applied.
9	Deploy New Certificate	This is the certificate required to update agents above 4084 from the old version.
10	Check Status	The state of the agent can be observed with the corresponding property.
11	Start	An agent with DSTAP stopped can also be started with the corresponding feature.
12	Stop	DSTAP can be stopped for some reason with the corresponding feature.
13	Restart	DSTAP can be restarted with the corresponding feature for some reason.
14	Restart Manager	This is the DISM restart module.
15	Deploy Agent	Voltage DAM agents can be updated to the upper version of both DSIM and DSTAP through the panel without the need for a database administrator.
16	Revert Agent	Linux based agents can automatically downgrade both DSIM and DSTAP to a lower version if necessary. Windows-based agents do not have such a feature.
17	DSPL	DSPL, which is specially developed for Linux-based agents, can be switched on and off via the panel.
18	Get Logs	All system log files of the agent can be retrieved via the panel.

19	Purge Diagnostic Log	All system log files of the agent can be reset via the panel.
20	Trace	It is the module used to monitor the traffic of packets.
21	Delete	The agent can be removed from the panel with the corresponding feature.
22	Properties	The features of the agent can be viewed on the panel.

DSIM Advanced Settings

The operating principles of the DSIM service can be changed in the "DSIM Settings". Descriptions of the parameters are explained below.

DSIM Settings _ 🗆 🗙				
Assigned				
log.local.size	8M			
log.local.count	3			
log.verbosity	1			
msg.storage.location	/var/spool/dataskope			
Unassigned				
ctrl.address	0.0.0.0			
ctrl.port	8765			
ctrl.timeout	30			
ctrl.max_clients	16			
ctrl.proto	2			
cert.pass	1234qqqQ!!			
dstap.path	/usr/bin/dstap			
dstap.params	-d			
dstap.autostart	✓			
dstap.kill_timeout	5			
msg.storage.reserve	128M			
msg.file.lock_timeout	300			
msg.file.force_delete				
watchdog.hang_restart	1			
		SAVE	CANCEL	

Ref.	Menus	Function
1	log.local.size	The maximum size of the DSIM log file. (Min:1MB, Max:32MB)
2	log.local.count	The number of rotations of the DSIM log file. (Min:2, Max:10)

3	log.verbosity	This is the message information to be written to the DSIM log file. (0=debug, 1=info, 2=notice, 3=warning, 4=error, 5=critical, 6=alert, 7=emergency)
4	msg.storage.location	The directory where the message files will be written. The default is /var/spool/dataskope directory. DSIM must be restarted if changes are made.
5	ctrl.address	This is the IP address that the DSIM control interface will listen to. If "0.0.0.0.0" is entered, it can accept commands from all IP addresses. When defining this address, one of the addresses available on the server must be selected. If an IP address that is not on the server is selected, DSIM may not work properly.
6	ctrl.port	This is the port information that the DSIM control interface will listen to.
7	ctrl.timeout	This is the information after how many minutes the inactive sessions will be dropped. (Min:1dk, Max:1440dk)
8	ctrl.max_clients	The number of DSIM connections to be made in parallel. More than this number of clients cannot be connected at the same time. (Min:4, Max:32)
9	ctrl.proto	
10	cert.pass	It is the password of dsim_server.pfx certificate.
11	dstap.path	The default directory information of DSTAP binary files.
12	dstap.params	Initial parameters can be transmitted to DSTAP. Reserved for future use.
13	dstap.autostart	Here you can select whether or not to start DSTAP automatically at system start up.
14	dstap.kill_timeout	If the DSTAP does not close properly, the time in seconds after which a Force-Kill is performed is specified. (Min:5s, Max:120s)
15	msg.storage.reserve	The minimum space that should remain in the message log directory is determined in MB. When there is less space than the specified value, logging is continued by overwriting the oldest file. Attention! Log loss may occur! (Min:64M, Max:1GB)
16	msg.file.lock_timeout	It is the information when the message file will be locked.
17	msg.file.force_delete	Indicates whether a locked message file will be forcibly deleted or not. It is off by default.
18	watchdog.hang_restart	The number of minutes after which the control interface will restart itself in the event of a pending. (Min:1dk, Max:1440dk)

DSTAP Advanced Settings

The operating principles of the DSTAP service can be changed on the "DSTAP Settings" screen. Descriptions of the parameters are explained below.

DSTAP Settings	-	□ ×
pcap.buffer_size	128M	
pcap.buffer_delay	1000	
pcap.snap_size	80K	
pcap.promisc		
pcap.devices	*	
pcap.extra_filter		
cpu.queue_reset		
pcap.log_drops		_
pcap.trace.enabled		
pcap.trace.device		
pcap.trace.filter		
pcap.trace.max_size	32M	
dspl.enabled		
tcp.session.timeout	86400	
tcp.session.save_state	✓	
tcp.session.save_template	✓	
oracle.enabled		
oracle.server_port	1521	
oracle.parse_nums		
mysql.enabled		
mysql.server_port	3306	
postgre.enabled		
postgre.server_port	5432	
mssql.enabled		
mssql.server_port	1433	_
		*
	SAVE CANCEL	

Ref.	Menus (Assigned)	Function
1	pcap.buffer_size	The size of the pcap temporary buffer memory for each device. (Min:16MB, Max:256MB)

2	pcap.buffer_delay	
3	pcap.snap_size	The maximum size for a packet to be captured. By default, it is 80KB. This value must be larger than the largest packet size. (Min:4KB, Max:128KB)
4	pcp.promisc	
5	pcap.devices	The information of the devices monitored by DSTAP (can be viewed on the relevant server with the dstap -I command output). A new device can be added by separating it with a comma from the setting screen. Then DSTAP will restart itself automatically.
6	pcap.extra_filter	Extra filter for pcap driver, helps to drop unrelated traffic on early stage.
7	cpu.queue_reset	Reset the queue after it reaches 8M entries.
8	pcap.log_drops	It is the information about the reduction of error logs that occur before the packet parsing step. (It may affect performance. It can also be used for error detection. It is not enabled by default.)
9	pcap.trace.enabled	Enable tracing of pcap packets.
10	pcap.trace.device	A device to do a trace capture on.
11	pcap.trace.filter	Filter for trace session.
12	pcap.trace.max_size	Maximum trace file size to grow.
13	dspl.enabled	This is the status information whether DSPL is enabled or not during the operation of DSTAP.
14	tcp.session_timeout	This is the drop time of an inactive TCP session. The relevant value must be entered in seconds. (Min:5dk, Max:600dk)
15	tcp.session.save_state	Save session state data upon app exit and resume them on restart.
16	tcp.session.save_template	Save client-specific state data for use with break-in session from same address.
17	oracle.enabled	This is the status of enabling Oracle port and decomposition mechanism.
18	oracle.server_port	Oracle ports are listened by DSTAP. If there is a special port, it can be added using a comma.
19	oracle.parse_nums	Parse numeric parameters.

20	mysql.enabled	This is the information about the status of enabling MySQL port and decomposition mechanism.
21	mysql.server_port	It is the information that MySQL ports are listened by DSTAP. If there is a special port, it can be added using a comma.
22	postgre.enabled	This is the status information for enabling the PostgreSQL port and decomposition mechanism.
23	postgre.server_port	It is the information that PostgreSQL ports are listened by DSTAP. If there is a special port, it can be added using commas.
24	mssql.enabled	This is the status information for enabling MSSQL port and decomposition mechanism.
25	mssql.server_port	It is the information that MSSQL ports are listened by DSTAP. If there is a special port, it can be added using commas.

DSTAP Settings		-		×
hana.enabled				
hana.server_port	39015			
mongo.enabled				
mongo.server_port	27017			
mongo.max_docs	100			
cassandra.enabled				
cassandra.server_port	9042			
vertica.enabled				
vertica.server_port	5433			
db2.enabled				
db2.server_port	50000			
couchbase.enabled				
couchbase.server_port	4369			
teradata.enabled				
teradata.server_port	1025			
elastic.enabled				
elastic.server_port	9200			
elastic.max_body	32К			
netezza.enabled				
netezza.server_port	5480			
gauss.enabled				
gauss.server_port	1888			
sybase.enabled				
sybase.server_port	5000			Ţ
	SAVE	CANC	EL	

Ref	Menus	Function
26	hana.enabled	This is the status information for enabling the HANA port and decomposition mechanism.
27	hana.server_port	It is the information that HANA ports are listened by DSTAP. If there is a special port, it can be added using a comma.
28	mongo.enabled	This is the status information for enabling the Mongo port and decomposition mechanism.
29	mongo.server_port	This is the information that Mongo ports are listened by DSTAP. If there is a special port, it can be added using a comma.
30	mongo.max_docs	Maximum number of documents in query payload to process.
31	cassandra.enabled	Enable capture on Cassandra ports and Cassandra parsing engine.
32	cassandra.server_ port	Comma-separated list of ports on which Cassandra instances are working.
33	vertica.enabled	Enable capture on Vertica ports and Vertica parsing engine.
34	vertica.server_port	Comma-separated list of ports on which Vertica instances are working.
35	db2.enabled	Enable capture on DB2 ports and DB2 parsing engine.
36	db2.server_port	Comma-separated list of ports on which DB2 instances are working.
37	couchbase.enabled	Enable capture on Couchbase ports and Couchbase parsing engine.
38	couchbase.server_ port	Comma-separated list of ports on which Couchbase instances are working.
39	teradata.enabled	Enable capture on Teradata ports and Teradata parsing engine.
40	teradata.server_port	Comma-separated list of ports on which Teradata instances are working.
41	elastic.enabled	Enable capture on Elasticsearch ports and Elasticsearch parsing engine.
42	elastic.server_port	Comma-separated list of ports on which Elasticsearch instances are working.
43	elastic.max_body	Maximum body length to capture.
44	netezza.enabled	Enable capture on Netezza ports and Netezza parsing engine.
45	netezza.server_port	Comma-separated list of ports on which Netezza instances are

		working.
46	gauss.enabled	Enable capture on Gauss ports and Gauss parsing engine.
47	gauss.server_port	Comma-separated list of ports on which Gauss instances are working.
48	sybase.enabled	Enable capture on Sybase ports and Sybase parsing engine.
49	sybase.server_port	Comma-separated list of ports on which Sybase instances are working.

TAP Settings		_ = ×
log.local.size	8M	Â
log.local.count	3	
log.verbosity	1	
diag.heartbeat_interval	60	
diag.log_heartbeats		
mem.trim.threshold	8G	
mem.trim.reserve	64M	
mem.limit.max	8G	
mem.limit.min	7G	
mem.limit.skip_mode	1	
mem.limit.hold_time	60	
tcp.kill.timeout	5000	
tcp.kill.max_packets	100	
tcp.kill.max_workers	20	
tcp.kill.variations	2	
tcp.breakin_mode	0	
tcp.ip_stats		~
	SAVE	CANCEL

50	log.local.size	The maximum size of the DSTAP log file.
51	log.local.count	The number of rotations of the DSTAP log file.
52	log.verbosity	This is the message information to be written to the DSTAP log file. (0=debug, 1=info, 2=notice, 3=warning, 4=error, 5=critical, 6=alert, 7=emergency)
53	diag.hearthbeat_ interval	The information about sending the statistical health status logs of the agent for analysis at the specified time frequency. The relevant value must be specified in seconds. (Min:1dk, Max:1sa)
54	diag.log_hearthbeats	This is the status information for enabling health status logs in DSTAP log.
55	mem.trim.threshold	The shaving mechanism is activated when the memory value assigned to the agent is exceeded.
56	mem.trim.reserve	This is the information about the size of the shaved memory. (Min:32MB, Max:256MB)
57	mem.limit.max	It is the maximum memory information that the agent will use. If this value is exceeded, "skip mode" will be activated. The working principle of skip mode is explained in mem.limit.skip_mode.
58	mem.limit.min	Specifies the level to which memory usage must drop for memory to be reduced to the specified value and for skip mode to be disabled.
59	mem.limit.skip_mode	Skip mode (1=Dropping TCP sessions, 2=Dropping all packages as in Mode-1, waiting for the memory usage to drop below the minimum, if it does not drop within 60 seconds by default, the agent is restarted)
60	mem.limit.hold_time	Amount time of in seconds before restarting app if skip_mode=2 and memory limit is reached.
61	tcp.kill.timeout	Time slice given to TCP kill worker to termice the TCP session.
62	tcp.kill.max_packets	Number of RST packets to send before giving up.
63	tcp.kill.max_workers	Max number of parallel workers for killing TCP session.
64	tcp.kill.variations	Number of SEQ/ACK variations to use per packet.
65	tcp.breakin_mode	Behaviour for break-in TCP sessions.0=ignore break-in sessions, 1= kill break-in sessions.
66	tcp.ip_stats	Collect IP stats.

STAP Settings	-	
msg.async_send		
msg.transport	1	
msg.storage.location	/var/spool/dataskope	
msg.file.max_size	2M	
msg.file.max_age	1	
msg.file.compression	1	
msg.file.preallocate		
cpu.parallel_parsers	1	
cpu.queue_size	1M	
security.control_iface		
replay.enabled		
replay.proc	0	
ssl.keys		
ssl.sessions.timeout	36000	
ssl.sessions.max_count	10000	
bench.max_stage	0	
	SAVE	NCEL

Ref	Menus	Function		
67	msg.async_send	Synchronous or asynchronous execution can be specified.		
68	msg.transport	It is the information to determine the message creation method. By default, it is file based. (1=local file, 2=syslog)		
69	msg.storage.location	The directory where the message files will be written. The default is /var/spool/dataskope directory. DSTAP must be restarted if changes are made.		
70	msg.file.max_size	Maximum file size for rotation. (Compressed. Raw data will be much larger than seen. (Min:1MB, Max:16MB)		
71	msg.file.max_age	The number of minutes the message file will be created before entering the maximum file size rotation. The default is 10 minutes. If it is desired that the logs reach Voltage DAM in a shorter time, this value can be reduced to 1 minute. (Min:1, Max:1440)		
72	msg.file.compression	The degree of compression of the message file. For each value		

		greater than one, the compression mechanism will run slower. The recommended value is 1. (Min:1, Max:22)
73	msg.file.preallocate	Enables a preliminary field assignment during message file creation. It is switched off by default.
74	cpu.parallel_parsers	It is determined how many parallel parsers the agent will work with. It can be configured according to server CPU specifications. For example, on a server with 96 cores, this value can be increased to 32.
75	cpu.queue_size	
76	security.control_iface	It is the feature that allows DSTAP functions from DSIM to undergo cryptographic verification before execution. It can be enabled for security purposes but may increase CPU usage.
77	replay.enabled	Enable replay interface.
78	replay.proc	Replay processor to use. 0=use own processor, 1=use main parallel processor, if parallel parsers are enabled.
79	ssl.keys	Flat list with comma-separated pairs.
80	ssl.sessions.timeout	Expiry interval in seconds for saved ssl session id/key.
81	ssl.sessions.max_ count	Maximum number of saved sessions.
82	bench.max_stage	Testing purpose only. Do not enable it if you do not realize consequences.

Organisation of the Agent's Policy

Users can assign a policy to the agent and this policy can be edited. For example, users have created an Oracle policy and applied it to the relevant agents. The point to be considered here is which policy is modified. The change is applied to all agents under the same policy.

dit F	olicy	-	۵	×
Nam	e *			
Data	skope Default Policy for Windows MS SQL Server - test1			
Data	base *			107
SOL				
JUL				
Dese	ription			
Rule	5			_
14 15	# # NO SPACES ALLOWED IN 1st AND 2nd segment, ONLY IN 3rd SEGMENT (AS A PART OF REGEX).			
17 18	#drop EVERYTHING from the program name ending with 'toad.exe' #drop client_app_name Toad\.exe\$			
20 21	#allow SL (SELECT) action for everything else #allow action_id ^SL\$			
22 23 24	#drop capture which has no query field or if it's empty #drop !sql_text			ì
25 26 27	#drop capture has query length greater than 1KB #drop >sql_text 1024			l
28 29 30	#allow any query that contains 'select' #allow sql_text select			l
31 32 33	#deny any query that contains 'into ' #drop sql_text into			l
34 35 36	##Drop logs based on Client IP & DB User #drop client_ipaddr 192.168.1.10 192.168.2.11			l
37 38 39	#+ #drop username service_user1			l
40 41	##Drop logs based on Client IP and SQL statement #drop client_ipaddr 192.168.1.10			l
42 43 44	#+ #drop sql_text select update			l
45 46 47	##Drop Infraskope ES Api #drop client_app_name Api			l
48 49	drop query ElaSessionLog			
50 51 52	##Default Allow Rule for MSSQL DB allow			
1)	

	TEST RULE	IMPORT	SAVE
--	-----------	--------	------

Ref.	Menus	Function
1	Policy Name	A name can be assigned to the created policy.
2	Policy Database	It is the information to which database the created policy belongs. It cannot be changed afterward. A new policy must be created to change it.

	Туре	
3	Rules	
	Policy Writing Drop	If it is started with drop, the rule writing must be continued with drop.
	Using Policy Lookup List	Policies offer regex support. In addition, Voltage DAM lists can be created and used within the policy.
	Policy Writing Allow	If it starts with allow, the rule writing must be continued with allow
4	Test Rule	The correctness of a written policy can be tested using this tool.
5	Policy Import	A policy written in text format can be uploaded and saved with this tool.

New Voltage DAM List

opentext Volt	age D	atabase Activity Monitoring	(Karmasis Interna	40	Papage 💽 Of 🎗 🔾 Abad 🌲	. ø x		
=	Los	okup Lists						
A Home	×	Static	unwanted clie	anted clients				
Q Search		Admin Users	Name	unvanted clients				
Tah Weis		Domains	Alas	untrustedips	Sample usage parant in (Quintustedige)			
B Dathboards		logonTypes	Description	Enter a short description				
🛱 Agents		Critical Processes	Value Columni	Value				
Alet Rules		🛤 regex list	Value Y					
1 Mappings		🛅 Datamart Table Names	192 168 1.1					
{} Lookup Lists		Datamart Column List	192.168.1.2					
S Settings		teatia 2	Click here to ad	ld new item				
		let (et)						
		app name list						
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		() fahah	5476	CANCEL				

- A new Voltage DAM list can be created from the Dashboard Lookup Lists section.
- The created list can be given an alias.
- The list elements are defined. Do not define empty elements. Since regex definitions are used here, this may give undesirable results.

Upgrading DSIM to Upper Version

When updating DSIM on Linux based systems, the dsim.signed file must be selected and sent.

· 1	🚨 « Dataskope Eğitim » release-el7-3	485 > release-el7-3485 >	Update 🗸	Ö Ara: Update		م
le 🕶	Yeni klasör				8:: •	•
Ad	^	Değiştirme tarihi	Tür	Boyut		
	dsim.signed	6.04.2021 14:54	SIGNED Dosyası	2.164 KB		
	dstap.signed	6.04.2021 14:52	SIGNED Dosyası	3.402 KB		
	dstool.signed	6.04.2021 14:49	SIGNED Dosyası	1.428 KB		
	libdspl.so.signed	6.04.2021 14:49	SIGNED Dosyası	1.677 KB		
	libdsplth.so.signed	6.04.2021 14:49	SIGNED Dosyası	30 KB		
	Dosya adı: dsim.signed			 Signed bina 	ry (*.signed)	~
				Aç	1	ptal

Upgrading DSTAP to Upper Version

When updating DSTAP on Linux based systems, dstap.signed, dstool.signed, libdspl.so.signed, libdsplth.so.signed files should be selected, converted to .zip format and sent.

Ad	Değiştirme tarihi	Tür	Boyut
J dstap.signed	6.04.2021 14:52	SIGNED Dosyası	3.402 KB
🌽 dstap.zip	11.06.2021 14:03	Sıkıştırılmış Klasör	2.530 KB
dstool.signed	6.04.2021 14:49	SIGNED Dosyası	1.428 KB
libdspl.so.signed	6.04.2021 14:49	SIGNED Dosyası	1.677 KB
libdsplth.so.signed	6.04.2021 14:49	SIGNED Dosyası	30 KB

Upgrading Windows Agent to the Upper Version

Windows agent is updated to the upper version unlike Linux-based agents. As in the screenshot, a .zip file is sent with the relevant feature. The update file must be obtained from OpenText.

opentext Voltage Database Activity Monitoring (Karmasis Internal)													
≡	Ag	jents											
n Home	A	Agents Policies Options											
Q, Search		AGINS DEBAS											
② Alets		Grouped by: Da	(Running)	New Agent									
B Dashboards		DSTAP Status	T DSIM Status T	Host Name	Status	Running	Edit						
Agents		 N/A (1) 			DSIM Version	3304348	Delete						
A Alert Rules		Unknown @Unknown ubuntulest N/A Disk found 1000								Artions *			
		 oracle (3) 						Actions *					
2 Mappings		Alive	Running	aix72_test	oracle	% Tools >			(Alive)	Open Terminal			
() Lookup Lists		Unknown	Unknown	oracle11g	oracle	Push Policy		Status	Aive				
Settings		Unknown	Unknown	oracle19	oracle	🗄 Push Config File		DSTAP Version	33.0.4348				
		 SQLSERVER (1) 				Pull Config File		DSTAP Started	2023-08-08 10 03:03				
		Alive	Running	DATASKOPE-TEST4	SQLSERVER	€e Edit Config >	0	Normal Charles Article					
		 vertica (1) 				Edit Settings >		Realtim	e Diagnostics (© Start (© Export				
		Unknown	Unknown	vertica-test	vertica	L Edit Policy		CPU Usage:	0.02%				
						Remove Policy		Resident Mem	ory: 266.5 M8				
						C) Deploy New Centricate		Virtual Memor	y: 266.08 M8				
						© Creak status		Messages See	ppeur 0				
						O Surt		Packets Captu	red: 2				
						Stop		Packets Dropp	ed: 0				
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		нкън				- rroperties	Page 1	of 1 discplasses, kill	ed: 0				
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Policies

Policies can be viewed and edited through the panel. When the edited policies are saved, if they are assigned to agents, that policy is applied to all relevant agents in real time.

opentext Volt	appentext Vokage Database Activity Monitoring (Karmasis Internal) Papage 💽 Off 🥂										
=	Agents										
€ Home	Age	ents Policies Options			TASKS						
Q, Search	Gre	uped by Database			Refresh						
성 Alerts		Name Y	Delabase ^ Y	Description	New Policy						
88 Dechboards	۷	Q1)			10						
C. Areata	^	cassandra (1)									
A stated		Dataskope Default Policy for Cassandra Serv	cassandra	This policy is read-only, and it captures and stores all the operations on Gasandra server. You can activate the example rules by deleting "4" character at the beginning of the rule orbania.	Cenere						
ZA Alert Rules	^	dh2 (1)									
野 Mappings		Dataskope Default Policy for DB2 Server	662	This policy is read-only, and it captures and stores all the operations on DI2 server. You can activate the example rules by deleting '9" character at the beginning of the rule oriteria.							
() Lookup Lists	^	elastic (1)									
Settings		Dataskope Default Policy for Elasticsearch Se	elastic	This policy is read-only, and it captures and stores all the operations on Biodiceaenth server. You can activate the example rules by deleting *** character at the beginning of the rule oriteria.							
	^	gauns (1)									
		Dataskope Default Policy for GaussOB Server	gauss	This policy is read-only, and it captures and stores all the operations on GaussGB server. You can activate the example rules by deleting "#" character at the beginning of the rule orienta.							
	¥	hana (1)									
	¥	mongo (2)									
	۷	mangl (1)									
	۷	mysąl (3)									
	v	netezza (1)									
	^	orade (15)									
		aix72,test Default	orade	Default configuration							
		Detaskope Default Policy for Oracle Server	orade	This policy is read-only, and it ceptures and stores all the operations on Oracle server. You can activate the example rules by deleting '4" character at the beginning of the rule criteria.							
		localhost.localdomain Default (4)	orade	Default configuration							
		oracle_other1 Default	orade	Defealt configuration							
		oracle-big-server Default	orade	Default configuration							
		oracie-big-server Default (3)	orade	Default configuration							
		oracle-big-server Default (4)	orade	Default configuration							
		oracle-big-server Default (5)	orade	Default configuration	×.						
	2	(← → →);		Page	1 of 1						

- When creating a policy, drop or allow is used and the spelling is continued by dividing with "|". For example, drop | username | xxxxxx.
- If many usernames are to be dropped, the spelling should be as follows; drop | username | xxxxxx | yyyyyy | zzzzzz
- Many variations can be created by connecting with "+".

For example,

```
#test#
#drop user and IP drop|os_user|xxxxxx
+
```

drop|db_user|yyyyyy

drop|client_ip|zzz.zzz.zzz.zzz

NOTE: When connecting more than one rule line, the principles of these rules must be the same.

EXAMPLE:

- If it is started with allow, it must continue with allow.
- If it starts with drop, it must continue with drop.
- The use of a single "#" means a comment line.
- The use of "##" corresponds to match_rule in the logs coming to Voltage DAM.
- This is specifically recognised as the name given to the rule written in the line below it and is added to the detail of the relevant log.
- Database resources coming to Voltage DAM have both Standard fields and Dynamic fields.
- Dynamic fields are used in the policy. For example, client_app_name is a dynamic field and can be used in the policy.

NOTE: Field names may vary depending on the database type. This should be taken into consideration when writing the rules.

• A policy starting with drop should not be continued with allow. For example, the following usage is incorrect, and this rule will not work:

#test
##drop query drop|username|xxxxxx
+
allow|client_ip|yyy.yyy.yyy.yyy