



arw events

ONTAP EMS reference

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arw events

arw.analytics events

arw.analytics.ext.report

Deprecated

This event is created and documented but never used.

Severity

NOTICE

Description

This message occurs when anti-ransomware analytics generates or updates the "suspicious file extensions" report for a volume.

Corrective Action

(None).

Syslog Message

Anti-ransomware file extension analytics has found %s across high entropy data on the volume "%s" in Vserver "%s". Report location: %s.

Parameters

fileExtension (STRING): Previously unseen file extension or suspicious file extension
volumeName (STRING): Name of the volume.
vserverName (STRING): Name of the Vserver.
fileExtensionReport (STRING): Link to report run after file extension analysis.

arw.analytics.high.entropy

Deprecated

This event is created and documented but never used.

Severity

ERROR

Description

This message occurs when the number of high entropy data log messages (pertaining to ransomware detection and analysis) that were generated for a volume cross the predefined threshold.

Corrective Action

To correct this issue: 1) Restore data from the last Snapshot copy that were saved before high entropy data was detected. 2) Refer to the anti-ransomware documentation to learn how to implement ransomware protection and mitigation strategies.

Syslog Message

A large amount of high entropy data was found on volume "%s" in Vserver "%s".

Parameters

volumeName (STRING): Name of the volume.

vserverName (STRING): Name of the Vserver.

arw.analytics.probability

Deprecated

This event is created and documented but never used.

Severity

ERROR

Description

This message occurs when an anti-ransomware attack probability has changed from "low" to "high" on a volume.

Corrective Action

To correct this issue: 1) Restore to the last safe Snapshot copy before attack probability became high. 2) Refer to the anti-ransomware documentation to diagnose further and take remedial measures.

Syslog Message

Anti-ransomware attack probability changed from low to high on volume "%s" in Vserver "%s".

Parameters

volumeName (STRING): Name of the volume.

vserverName (STRING): Name of the Vserver.

arw.analytics.report

Deprecated

This event is created and documented but never used.

Severity

NOTICE

Description

This message occurs when an anti-ransomware analytics report is generated or updated for a volume.

Corrective Action

(None).

Syslog Message

Anti-ransomware analytics report has been generated for volume %s of Vserver %s. The report is available at %s.

Parameters

volumeName (STRING): Name of the volume.

vserverName (STRING): Name of the Vserver.

report_path (STRING): Path to anti-ransomware report.

arw.analytics.suspects

Deprecated

This event is created and documented but never used.

Severity

ERROR

Description

This message occurs when a list of suspects generated by anti-ransomware analytics grows to a point where further investigation is needed.

Corrective Action

(None).

Syslog Message

Anti-ransomware analytics on volume "%s" in Vserver "%s" has outstanding suspect files.

Parameters

volumeName (STRING): Name of the volume.
vserverName (STRING): Name of the Vserver.

arw.auto events

arw.auto.switch.enabled

Severity

NOTICE

Description

This message occurs when anti-ransomware has been automatically switched from learning mode to enabled after various conditions have been satisfied, such as learning period, file creation, file write, and file extension discovery activities.

Corrective Action

(None).

Syslog Message

Anti-ransomware has been automatically switched from learning mode to enabled on volume "%s" in SVM "%s".

Parameters

VolumeName (STRING): Name of the volume.
VserverName (STRING): Name of the SVM.
LearningPeriod (INT): Number of days needed for learning.
IncomingWrite (INT): Amount of write (in MB) received during Learning mode.
DurationWithoutNewExtension (INT): Number of days without a new file extension being discovered.
FileCount (INT): Number of new files created in a volume.
FileExtensionCount (INT): Number of new file extensions discovered in a volume.

arw.new events

arw.new.file.extn.seen

Severity

NOTICE

Description

This message occurs when a new file extension is observed in anti-ransomware enabled volume. Its purpose is to promptly notify about the extension seen and enabling timely investigation.

Corrective Action

(None).

Syslog Message

A new file-extension "%s" is observed on volume "%s" (UUID: "%s") in SVM "%s" (UUID: "%s") at "%s".

Parameters

fileExtension (STRING): Name of the File-Extension seen.
volumeName (STRING): Name of the volume.
volumeUuid (STRING): UUID of the Volume.
vserverName (STRING): Name of the SVM.
vserverUuid (STRING): UUID of the SVM.
time (STRING): Time when new extension is seen.

arw.snapshot events

arw.snapshot.created

Severity

NOTICE

Description

This message occurs when a new ARP snapshot is created in anti-ransomware enabled volume. Additionally, it provides information about the reason behind the creation of the snapshot.

Corrective Action

(None).

Syslog Message

ARP snapshot created on volume "%s" (UUID: %s) in SVM "%s" (UUID: %s) at %s. Reason: %s.

Parameters

volumeName (STRING): Name of the volume.
volumeUuid (STRING): UUID of the Volume.
vserverName (STRING): Name of the SVM.
vserverUuid (STRING): UUID of the SVM.
time (STRING): Time when new ARP snapshot is created.
reason (STRING): Reason for snapshot creation.

arw.snapshot.expiry.time.extended

Severity

NOTICE

Description

This message occurs when the expiry time of a periodically created anti-ransomware snapshot is extended after detecting an increase in the encrypted data percentage, which signals an unusual activity. The length of the extension corresponds to the magnitude of the encrypted data percentage detected.

Corrective Action

(None).

Syslog Message

Anti-ransomware snapshot expiry time extended. Snapshot "%s" in volume "%s" in SVM "%s" from "%s" to "%s".

Parameters

snapshotName (STRING): Name of the snapshot.

volumeName (STRING): Name of the volume.

vserverName (STRING): Name of the SVM.

prevExpiryTime (STRING): Previous expiry time of the anti-ransomware snapshot.

newExpiryTime (STRING): Updated expiry time of the anti-ransomware snapshot.

arw.volume events

arw.volume.state

Severity

NOTICE

Description

This message occurs when the anti-ransomware state of a volume is changed.

Corrective Action

(None).

Syslog Message

Anti-ransomware state was changed to "%s" on volume "%s" (UUID: "%s") in Vserver "%s" (UUID: "%s").

Parameters

op (STRING): Monitoring state (enabled, disabled, dry-run).

volumeName (STRING): Name of the volume.

volumeUuid (STRING): UUID of the volume.

vserverName (STRING): Name of the Vserver.

vserverUuid (STRING): UUID of the Vserver.

arw.vserver events

arw.vserver.state

Severity

NOTICE

Description

This message occurs when the anti-ransomware state of a Vserver is changed.

Corrective Action

(None).

Syslog Message

Anti-ransomware was changed to "%s" on Vserver "%s" (UUID: "%s").

Parameters

op (STRING): Anti-ransomware state (enabled, disabled, or dry-run).

vserverName (STRING): Name of the Vserver.

vserverUuid (STRING): UUID of the Vserver.

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