



Audit message categories

StorageGRID 11.7

NetApp

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Audit message categories

System audit messages

The audit messages belonging to the system audit category are used for events related to the auditing system itself, grid node states, system-wide task activity (grid tasks), and service backup operations.

| Code | Message title and description | See |
|------|--|---|
| ECMC | Missing Erasure Coded Data Fragment: Indicates that a missing erasure coded data fragment has been detected. | ECMC: Missing Erasure Coded Data Fragment |
| ECOC | Corrupt Erasure Coded Data Fragment: Indicates that a corrupt erasure coded data fragment has been detected. | ECOC: Corrupt Erasure Coded Data Fragment |
| ETAF | Security Authentication Failed: A connection attempt using Transport Layer Security (TLS) failed. | ETAF: Security Authentication Failed |
| GNRG | GNDS Registration: A service updated or registered information about itself in the StorageGRID system. | GNRG: GNDS Registration |
| GNUR | GNDS Unregistration: A service has unregistered itself from the StorageGRID system. | GNUR: GNDS Unregistration |
| GTED | Grid Task Ended: The CMN service finished processing the grid task. | GTED: Grid Task Ended |
| GTST | Grid Task Started: The CMN service started to process the grid task. | GTST: Grid Task Started |
| GTSU | Grid Task Submitted: A grid task was submitted to the CMN service. | GTSU: Grid Task Submitted |
| LLST | Location Lost: This audit message is generated when a location is lost. | LLST: Location Lost |
| OLST | Object Lost: A requested object cannot be located within the StorageGRID system. | OLST: System Detected Lost Object |
| SADD | Security Audit Disable: Audit message logging was turned off. | SADD: Security Audit Disable |
| SADE | Security Audit Enable: Audit message logging has been restored. | SADE: Security Audit Enable |

| Code | Message title and description | See |
|------|---|---|
| SVRF | Object Store Verify Fail: A content block failed verification checks. | SVRF: Object Store Verify Fail |
| SVRU | Object Store Verify Unknown: Unexpected object data detected in the object store. | SVRU: Object Store Verify Unknown |
| SYSD | Node Stop: A shutdown was requested. | SYSD: Node Stop |
| SYST | Node Stopping: A service initiated a graceful stop. | SYST: Node Stopping |
| SYSU | Node Start: A service started; the nature of the previous shutdown is indicated in the message. | SYSU: Node Start |

Object storage audit messages

The audit messages belonging to the object storage audit category are used for events related to the storage and management of objects within the StorageGRID system. These include object storage and retrievals, grid-node to grid-node transfers, and verifications.

| Code | Description | See |
|------|--|--|
| APCT | Archive Purge from Cloud-Tier: Archived object data is deleted from an external archival storage system, which connects to the StorageGRID through the S3 API. | APCT: Archive Purge from Cloud-Tier |
| ARCB | Archive Object Retrieve Begin: The ARC service begins the retrieval of object data from the external archival storage system. | ARCB: Archive Object Retrieve Begin |
| ARCE | Archive Object Retrieve End: Object data has been retrieved from an external archival storage system, and the ARC service reports the status of the retrieval operation. | ARCE: Archive Object Retrieve End |
| ARCT | Archive Retrieve from Cloud-Tier: Archived object data is retrieved from an external archival storage system, which connects to the StorageGRID through the S3 API. | ARCT: Archive Retrieve from Cloud-Tier |
| AREM | Archive Object Remove: A content block was successfully or unsuccessfully deleted from the external archival storage system. | AREM: Archive Object Remove |

| Code | Description | See |
|------|--|---|
| ASCE | Archive Object Store End: A content block has been written to the external archival storage system, and the ARC service reports the status of the write operation. | ASCE: Archive Object Store End |
| ASCT | Archive Store Cloud-Tier: Object data is stored to an external archival storage system, which connects to the StorageGRID through the S3 API. | ASCT: Archive Store Cloud-Tier |
| ATCE | Archive Object Store Begin: Writing a content block to an external archival storage has started. | ATCE: Archive Object Store Begin |
| AVCC | Archive Validate Cloud-Tier Configuration: The account and bucket settings provided were successfully or unsuccessfully validated. | AVCC: Archive Validate Cloud-Tier Configuration |
| BROR | Bucket Read Only Request: A bucket entered or exited read-only mode. | BROR: Bucket Read Only Request |
| CBSE | Object Send End: The source entity completed a grid-node to grid-node data transfer operation. | CBSE: Object Send End |
| CBRE | Object Receive End: The destination entity completed a grid-node to grid-node data transfer operation. | CBRE: Object Receive End |
| CGRR | Cross-Grid Replication Request: StorageGRID attempted a cross-grid replication operation to replicate objects between buckets in a grid federation connection. | CGRR: Cross-Grid Replication Request |
| EBDL | Empty Bucket Delete: The ILM scanner deleted an object in a bucket that is deleting all objects (performing an empty bucket operation). | EBDL: Empty Bucket Delete |
| EBKR | Empty Bucket Request: A user sent a request to turn empty bucket on or off (that is, to delete bucket objects or to stop deleting objects). | EBKR: Empty Bucket Request |
| SCMT | Object Store Commit: A content block was completely stored and verified, and can now be requested. | SCMT: Object Store Commit Request |
| SREM | Object Store Remove: A content block was deleted from a grid node, and can no longer be requested directly. | SREM: Object Store Remove |

Client read audit messages

Client read audit messages are logged when an S3 or Swift client application makes a request to retrieve an object.

| Code | Description | Used by | See |
|------|---|--------------|---|
| S3SL | S3 Select request: Logs a completion after an S3 Select request has been returned to the client. The S3SL message can include error message and error code details. The request might not have been successful. | S3 client | S3SL: S3 Select request |
| SGET | S3 GET: Logs a successful transaction to retrieve an object or list the objects in a bucket. Note: If the transaction operates on a subresource, the audit message will include the field S3SR. | S3 client | SGET: S3 GET |
| SHEA | S3 HEAD: Logs a successful transaction to check for the existence of an object or bucket. | S3 client | SHEA: S3 HEAD |
| WGET | Swift GET: Logs a successful transaction to retrieve an object or list the objects in a container. | Swift client | WGET: Swift GET |
| WHEA | Swift HEAD: Logs a successful transaction to check for the existence of an object or container. | Swift client | WHEA: Swift HEAD |

Client write audit messages

Client write audit messages are logged when an S3 or Swift client application makes a request to create or modify an object.

| Code | Description | Used by | See |
|------|--|----------------------|--|
| OVWR | Object Overwrite: Logs a transaction to overwrite one object with another object. | S3 and Swift clients | OVWR: Object Overwrite |
| SDEL | S3 DELETE: Logs a successful transaction to delete an object or bucket. Note: If the transaction operates on a subresource, the audit message will include the field S3SR. | S3 client | SDEL: S3 DELETE |
| SPOS | S3 POST: Logs a successful transaction to restore an object from AWS Glacier storage to a Cloud Storage Pool. | S3 client | SPOS: S3 POST |

| Code | Description | Used by | See |
|------|--|--------------|---|
| SPUT | S3 PUT: Logs a successful transaction to create a new object or bucket. Note: If the transaction operates on a subresource, the audit message will include the field S3SR. | S3 client | SPUT: S3 PUT |
| SUPD | S3 Metadata Updated: Logs a successful transaction to update the metadata for an existing object or bucket. | S3 client | SUPD: S3 Metadata Updated |
| WDEL | Swift DELETE: Logs a successful transaction to delete an object or container. | Swift client | WDEL: Swift DELETE |
| WPUT | Swift PUT: Logs a successful transaction to create a new object or container. | Swift client | WPUT: Swift PUT |

Management audit message

The Management category logs user requests to the Management API.

| Code | Message title and description | See |
|------|---|--|
| MGAU | Management API audit message: A log of user requests. | MGAU: Management audit message |

ILM operations audit messages

The audit messages belonging to the ILM audit category are used for events related to information lifecycle management (ILM) operations.

| Code | Message title and description | See |
|------|---|--|
| IDEL | ILM Initiated Delete: This audit message is generated when ILM starts the process of deleting an object. | IDEL: ILM Initiated Delete |
| LKCU | Overwritten Object Cleanup. This audit message is generated when an overwritten object is automatically removed to free up storage space. | LKCU: Overwritten Object Cleanup |
| ORLM | Object Rules Met: This audit message is generated when object data is stored as specified by the ILM rules. | ORLM: Object Rules Met |

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