

AuditLog

Common audit log format for Google Cloud Platform API operations.

JSON representation

```
{
  "serviceName": string,
  "methodName": string,
  "resourceName": string,
  "resourceLocation": {
    object (ResourceLocation (/logging/docs/reference/audit/auditlog/rest/Shared.Types/AuditLog
  },
  "resourceOriginalState": {
    object
  },
  "numResponseItems": string,
  "status": {
    object (Status (/logging/docs/reference/audit/auditlog/rest/Shared.Types/AuditLog#Status))
  },
  "authenticationInfo": {
    object (AuthenticationInfo (/logging/docs/reference/audit/auditlog/rest/Shared.Types/AuditL
  },
  "authorizationInfo": [
    {
      object (AuthorizationInfo (/logging/docs/reference/audit/auditlog/rest/Shared.Types/Audit
    }
  ],
  "policyViolationInfo": {
    object (PolicyViolationInfo (/logging/docs/reference/audit/auditlog/rest/Shared.Types/Audit
  },
  "requestMetadata": {
    object (RequestMetadata (/logging/docs/reference/audit/auditlog/rest/Shared.Types/AuditLog#
  },
  "request": {
    object
  },
  "response": {
    object
  },
  "metadata": {
    object
  },
}
```

JSON representation

```
"serviceData": {
  "@type": string,
  field1: ...,
  ...
}
```

Fields

| | |
|--------------------|---------------|
| serviceName | string |
|--------------------|---------------|

The name of the API service performing the operation. For example, "compute.googleapis.com".

| | |
|-------------------|---------------|
| methodName | string |
|-------------------|---------------|

The name of the service method or operation. For API calls, this should be the name of the API method. For example,

```
"google.cloud.bigquery.v2.TableService.InsertTable"
"google.logging.v2.ConfigServiceV2.CreateSink"
```

| | |
|---------------------|---------------|
| resourceName | string |
|---------------------|---------------|

The resource or collection that is the target of the operation. The name is a scheme-less URI, not including the API service name. For example:

```
"projects/PROJECT_ID/zones/us-central1-a/instances"
"projects/PROJECT_ID/datasets/DATASET_ID"
```

| | |
|-------------------------|--|
| resourceLocation | object (<u>ResourceLocation</u> |
|-------------------------|--|

(/logging/docs/reference/audit/auditlog/rest/Shared.Types/AuditLog#ResourceLocation)

)

The resource location information.

Fields

| | |
|------------------------------|--|
| resourceOriginalState | object (<u>Struct</u> (https://developers.google.com/protocol-buffers/docs/reference/google.protobuf#google.protobuf.Struct) format) The resource's original state before mutation. Present only for operations which have successfully modified the targeted resource(s). In general, this field should contain all changed fields, except those that are already been included in request , response , metadata or serviceData fields. When the JSON object represented here has a proto equivalent, the proto name will be indicated in the @type property. |
| numResponseItems | string (<u>int64</u> (https://developers.google.com/discovery/v1/type-format) format) The number of items returned from a List or Query API method, if applicable. |
| status | object (<u>Status</u> (/logging/docs/reference/audit/auditlog/rest/Shared.Types/AuditLog#Status)) The status of the overall operation. |
| authenticationInfo | object (<u>AuthenticationInfo</u> (/logging/docs/reference/audit/auditlog/rest/Shared.Types/AuditLog#AuthenticationInfo)) Authentication information. |
| authorizationInfo[] | object (<u>AuthorizationInfo</u> (/logging/docs/reference/audit/auditlog/rest/Shared.Types/AuditLog#AuthorizationInfo)) Authorization information. If there are multiple resources or permissions involved, then there is one AuthorizationInfo element for each {resource, permission} tuple. |

Fields

| | |
|----------------------------|--|
| policyViolationInfo | object (<u>PolicyViolationInfo</u> (/logging/docs/reference/audit/auditlog/rest/Shared.Types/AuditLog#PolicyViolationInfo)) Indicates the policy violations for this request. If the request is denied by the policy, violation information will be logged here. |
| requestMetadata | object (<u>RequestMetadata</u> (/logging/docs/reference/audit/auditlog/rest/Shared.Types/AuditLog#RequestMetadata)) Metadata about the operation. |
| request | object (<u>Struct</u> (https://developers.google.com/protocol-buffers/docs/reference/google.protobuf#google.protobuf.Struct) format) The operation request. This may not include all request parameters, such as those that are too large, privacy-sensitive, or duplicated elsewhere in the log record. It should never include user-generated data, such as file contents. When the JSON object represented here has a proto equivalent, the proto name will be indicated in the @type property. |
| response | object (<u>Struct</u> (https://developers.google.com/protocol-buffers/docs/reference/google.protobuf#google.protobuf.Struct) format) The operation response. This may not include all response elements, such as those that are too large, privacy-sensitive, or duplicated elsewhere in the log record. It should never include user-generated data, such as file contents. When the JSON object represented here has a proto equivalent, the proto name will be indicated in the @type property. |
| metadata | object (<u>Struct</u> (https://developers.google.com/protocol-buffers/docs/reference/google.protobuf#google.protobuf.Struct) format) Other service-specific data about the request, response, and other information associated with the current audited event. |

Fields

serviceData
(deprecated)

object



This item is deprecated!

Deprecated. Use the **metadata** field instead. Other service-specific data about the request, response, and other activities.

An object containing fields of an arbitrary type. An additional field "**@type**" contains a URI identifying the type. Example: { "**id**": 1234, "**@type**": "**types.example.com/standard/id**" }.

ResourceLocation

Location information about a resource.

JSON representation

```
{
  "currentLocations": [
    string
  ],
  "originalLocations": [
    string
  ]
}
```

Fields

currentLocations[] **string**

The locations of a resource after the execution of the operation. Requests to create or delete a location based resource must populate the 'currentLocations' field and not the 'originalLocations' field. For example:

```
"europe-west1-a"
"us-east1"
```

Fields

```
"nam3"
```

`originalLocations[] string`

The locations of a resource prior to the execution of the operation. Requests that mutate the resource's location must populate both the 'originalLocations' as well as the 'currentLocations' fields. For example:

```
"europe-west1-a"  
"us-east1"  
"nam3"
```

Status

The `Status` type defines a logical error model that is suitable for different programming environments, including REST APIs and RPC APIs. It is used by [gRPC](https://github.com/grpc) (<https://github.com/grpc>). Each `Status` message contains three pieces of data: error code, error message, and error details.

You can find out more about this error model and how to work with it in the [API Design Guide](https://cloud.google.com/apis/design/errors) (<https://cloud.google.com/apis/design/errors>).

JSON representation

```
{  
  "code": integer,  
  "message": string,  
  "details": [  
    {  
      "@type": string,  
      field1: ...,  
      ...  
    }  
  ]  
}
```

Fields

| | |
|------------------|---|
| code | integer |
| | The status code, which should be an enum value of <code>google.rpc.Code</code> . |
| message | string |
| | A developer-facing error message, which should be in English. Any user-facing error message should be localized and sent in the <code>google.rpc.Status.details</code> (/logging/docs/reference/audit/auditlog/rest/Shared.Types/AuditLog#Status.FIELDS.details) field, or localized by the client. |
| details[] | object |
| | A list of messages that carry the error details. There is a common set of message types for APIs to use. |
| | An object containing fields of an arbitrary type. An additional field "@type" contains a URI identifying the type. Example: { "id": 1234, "@type": "types.example.com/standard/id" }. |

AuthenticationInfo

Authentication information for the operation.

JSON representation

```
{
  "principalEmail": string,
  "authoritySelector": string,
  "thirdPartyPrincipal": {
    object
  },
  "serviceAccountKeyName": string,
  "serviceAccountDelegationInfo": [
    {
      object (ServiceAccountDelegationInfo (/logging/docs/reference/audit/auditlog/rest/Shared.Types/AuditLog#ServiceAccountDelegationInfo))
    }
  ],
}
```

JSON representation

```
"principalSubject": string
}
```

Fields

| | |
|-----------------------|---------------|
| principalEmail | string |
|-----------------------|---------------|

The email address of the authenticated user (or service account on behalf of third party principal) making the request. For third party identity callers, the **principalSubject** field is populated instead of this field. For privacy reasons, the principal email address is sometimes redacted. For more information, see [Caller identities in audit logs](https://cloud.google.com/logging/docs/audit#user-id) (<https://cloud.google.com/logging/docs/audit#user-id>).

| | |
|--------------------------|---------------|
| authoritySelector | string |
|--------------------------|---------------|

The authority selector specified by the requestor, if any. It is not guaranteed that the principal was allowed to use this authority.

| | |
|----------------------------|--|
| thirdPartyPrincipal | object (<u>Struct</u> (https://developers.google.com/protocol-buffers/docs/reference/google.protobuf.Struct) format) |
|----------------------------|--|

The third party identification (if any) of the authenticated user making the request. When the JSON object represented here has a proto equivalent, the proto name will be indicated in the **@type** property.

| | |
|------------------------------|---------------|
| serviceAccountKeyName | string |
|------------------------------|---------------|

The name of the service account key used to create or exchange credentials for authenticating the service account making the request. This is a scheme-less URI full resource name. For example:

```
"//iam.googleapis.com/projects/{PROJECT_ID}/serviceAccounts/{ACCOUNT}/keys/{key}"
```

| | |
|---------------------------------------|--|
| serviceAccountDelegationInfo[] | object (<u>ServiceAccountDelegationInfo</u> (/logging/docs/reference/audit/auditlog/rest/Shared.Types/AuditLog#ServiceAccountDelegationInfo)) |
|---------------------------------------|--|

Identity delegation history of an authenticated service account that makes the request. It contains information on the real authorities that try to access GCP

Fields

| | |
|-------------------------|---|
| | resources by delegating on a service account. When multiple authorities present, they are guaranteed to be sorted based on the original ordering of the identity delegation events. |
| principalSubject | string |
| | String representation of identity of requesting party. Populated for both first and third party identities. |

ServiceAccountDelegationInfo

Identity delegation history of an authenticated service account.

JSON representation

```
{
  "principalSubject": string,

  // Union field Authority can be only one of the following:
  "firstPartyPrincipal": {
    object (FirstPartyPrincipal (/logging/docs/reference/audit/auditlog/rest/Shared.Types/Audit
  },
  "thirdPartyPrincipal": {
    object (ThirdPartyPrincipal (/logging/docs/reference/audit/auditlog/rest/Shared.Types/Audit
  }
  // End of list of possible types for union field Authority.
}
```

Fields

| | |
|-------------------------|---|
| principalSubject | string |
| | A string representing the principalSubject associated with the identity. For most identities, the format will be principal://iam.googleapis.com/{identity pool name}/subject/{subject} except for some GKE identities (GKE_WORKLOAD, FREEFORM, GKE_HUB_WORKLOAD) that are still in the legacy format serviceAccount:{identity pool name}[{subject}] |

Fields

Union field **Authority**. Entity that creates credentials for service account and assumes its identity for authentication. **Authority** can be only one of the following:

firstPartyPrincipal object ([FirstPartyPrincipal](#)
(/logging/docs/reference/audit/auditlog/rest/Shared.Types/AuditLog#FirstPartyPrincipal)
)

First party (Google) identity as the real authority.

thirdPartyPrincipal object ([ThirdPartyPrincipal](#)
(/logging/docs/reference/audit/auditlog/rest/Shared.Types/AuditLog#ThirdPartyPrincipal)
)

Third party identity as the real authority.

FirstPartyPrincipal

First party identity principal.

JSON representation

```
{
  "principalEmail": string,
  "serviceMetadata": {
    object
  }
}
```

Fields

| | |
|------------------------|---|
| principalEmail | string The email address of a Google account. . |
| serviceMetadata | object (<u>Struct</u> (https://developers.google.com/protocol-buffers/docs/reference/google.protobuf#google.protobuf.Struct) format) |

Fields

Metadata about the service that uses the service account. .

ThirdPartyPrincipal

Third party identity principal.

JSON representation

```
{
  "thirdPartyClaims": {
    object
  }
}
```

Fields

| | |
|-------------------------|---|
| thirdPartyClaims | object (Struct (https://developers.google.com/protocol-buffers/docs/reference/google.protobuf#google.protobuf.Struct) format) |
|-------------------------|---|

Metadata about third party identity.

AuthorizationInfo

Authorization information for the operation.

JSON representation

```
{
  "resource": string,
  "permission": string,
  "granted": boolean,
  "resourceAttributes": {
    object (Resource (/logging/docs/reference/audit/auditlog/rest/Shared.Types/AuditLog#Resource
```

JSON representation

```
}  
}
```

Fields

| | |
|---------------------------|--|
| resource | string The resource being accessed, as a REST-style or cloud resource string. For example: bigquery.googleapis.com/projects/PROJECTID/datasets/DATASETID or projects/PROJECTID/datasets/DATASETID |
| permission | string The required IAM permission. |
| granted | boolean Whether or not authorization for resource and permission was granted. |
| resourceAttributes | object (<u>Resource</u> (/logging/docs/reference/audit/auditlog/rest/Shared.Types/AuditLog#Resource)) Resource attributes used in IAM condition evaluation. This field contains resource attributes like resource type and resource name. To get the whole view of the attributes used in IAM condition evaluation, the user must also look into AuditLog.request_metadata.request_attributes . |

Resource

This message defines core attributes for a resource. A resource is an addressable (named) entity provided by the destination service. For example, a file stored on a network storage

service.

JSON representation

```
{
  "service": string,
  "name": string,
  "type": string,
  "labels": {
    string: string,
    ...
  },
  "uid": string,
  "annotations": {
    string: string,
    ...
  },
  "displayName": string,
  "createTime": string,
  "updateTime": string,
  "deleteTime": string,
  "etag": string,
  "location": string
}
```

Fields

| | |
|---------|---|
| service | string |
| | The name of the service that this resource belongs to, such as <code>pubsub.googleapis.com</code> . The service may be different from the DNS hostname that actually serves the request. |
| name | string |
| | <p>The stable identifier (name) of a resource on the service. A resource can be logically identified as <code>"//{resource.service}/{resource.name}"</code>. The differences between a resource name and a URI are:</p> <ul style="list-style-type: none">Resource name is a logical identifier, independent of network protocol and API version. For example, <code>//pubsub.googleapis.com/projects/123/topics/news-feed</code>.URI often includes protocol and version information, so it can be used directly by applications. For example, |

Fields

<https://pubsub.googleapis.com/v1/projects/123/topics/news-feed>.

See <https://cloud.google.com/apis/design/resourceNames> (<https://cloud.google.com/apis/design/resourceNames>) for details.

type**string**

The type of the resource. The syntax is platform-specific because different platforms define their resources differently.

For Google APIs, the type format must be "{service}/{kind}", such as "pubsub.googleapis.com/Topic".

labels**map (key: string, value: string)**

The labels or tags on the resource, such as AWS resource tags and Kubernetes resource labels.

An object containing a list of "key": value pairs. Example: { "name": "wrench", "mass": "1.3kg", "count": "3" }.

uid**string**

The unique identifier of the resource. UID is unique in the time and space for this resource within the scope of the service. It is typically generated by the server on successful creation of a resource and must not be changed. UID is used to uniquely identify resources with resource name reuses. This should be a UUID4.

annotations**map (key: string, value: string)**

Annotations is an unstructured key-value map stored with a resource that may be set by external tools to store and retrieve arbitrary metadata. They are not queryable and should be preserved when modifying objects.

More info: <https://kubernetes.io/docs/concepts/overview/working-with-objects/annotations/>

(<https://kubernetes.io/docs/concepts/overview/working-with-objects/annotations/>)

.

An object containing a list of "key": value pairs. Example: { "name": "wrench", "mass": "1.3kg", "count": "3" }.

displayName**string**

Fields

Mutable. The display name set by clients. Must be <= 63 characters.

createTime **string** (**Timestamp**
(<https://developers.google.com/protocol-buffers/docs/reference/google.protobuf#google.protobuf.Timestamp>)
format)

Output only. The timestamp when the resource was created. This may be either the time creation was initiated or when it was completed.

A timestamp in RFC3339 UTC "Zulu" format, with nanosecond resolution and up to nine fractional digits. Examples: "2014-10-02T15:01:23Z" and "2014-10-02T15:01:23.045123456Z".

updateTime **string** (**Timestamp**
(<https://developers.google.com/protocol-buffers/docs/reference/google.protobuf#google.protobuf.Timestamp>)
format)

Output only. The timestamp when the resource was last updated. Any change to the resource made by users must refresh this value. Changes to a resource made by the service should refresh this value.

A timestamp in RFC3339 UTC "Zulu" format, with nanosecond resolution and up to nine fractional digits. Examples: "2014-10-02T15:01:23Z" and "2014-10-02T15:01:23.045123456Z".

deleteTime **string** (**Timestamp**
(<https://developers.google.com/protocol-buffers/docs/reference/google.protobuf#google.protobuf.Timestamp>)
format)

Output only. The timestamp when the resource was deleted. If the resource is not deleted, this must be empty.

A timestamp in RFC3339 UTC "Zulu" format, with nanosecond resolution and up to nine fractional digits. Examples: "2014-10-02T15:01:23Z" and "2014-10-02T15:01:23.045123456Z".

etag **string**

Output only. An opaque value that uniquely identifies a version or generation of a resource. It can be used to confirm that the client and server agree on the ordering of a resource being written.

Fields

| | |
|-----------------|---------------|
| location | string |
|-----------------|---------------|

Immutable. The location of the resource. The location encoding is specific to the service provider, and new encoding may be introduced as the service evolves.

For Google Cloud products, the encoding is what is used by Google Cloud APIs, such as `us-east1`, `aws-us-east-1`, and `azure-eastus2`. The semantics of `location` is identical to the `cloud.googleapis.com/location` label used by some Google Cloud APIs.

PolicyViolationInfo

Information related to policy violations for this request.

JSON representation

```
{
  "orgPolicyViolationInfo": {
    object (OrgPolicyViolationInfo (/logging/docs/reference/audit/auditlog/rest/Shared.Types/A
  )
}
```

Fields

| | |
|-------------------------------|--|
| orgPolicyViolationInfo | object (OrgPolicyViolationInfo (/logging/docs/reference/audit/auditlog/rest/Shared.Types/AuditLog#OrgPolicyViolationInfo)) |
|-------------------------------|--|

Indicates the orgpolicy violations for this resource.

OrgPolicyViolationInfo

Represents OrgPolicy Violation information.

JSON representation

```
{
  "payload": {
    object
  },
  "resourceType": string,
  "resourceTags": {
    string: string,
    ...
  },
  "violationInfo": [
    {
      object (ViolationInfo (/logging/docs/reference/audit/auditlog/rest/Shared.Types/AuditLog#
    )
  ]
}
```

Fields

| | |
|---------------------|---|
| payload | object (Struct (https://developers.google.com/protocol-buffers/docs/reference/google.protobuf#google.protobuf.Struct) format) <p>Optional. Resource payload that is currently in scope and is subjected to orgpolicy conditions. This payload may be the subset of the actual Resource that may come in the request. This payload should not contain any core content.</p> |
| resourceType | string <p>Optional. Resource type that the orgpolicy is checked against. Example: compute.googleapis.com/Instance, store.googleapis.com/bucket</p> |
| resourceTags | map (key: string, value: string) <p>Optional. Tags referenced on the resource at the time of evaluation. These also include the federated tags, if they are supplied in the CheckOrgPolicy or CheckCustomConstraints Requests.</p> <p>Optional field as of now. These tags are the Cloud tags that are available on the resource during the policy evaluation and will be available as part of the OrgPolicy check response for logging purposes.</p> |

Fields

| | |
|-----------------|--|
| | An object containing a list of "key" : value pairs. Example: { "name" : "wrench", "mass": "1.3kg", "count": "3" }. |
| violationInfo[] | object (<u>ViolationInfo</u> (/logging/docs/reference/audit/auditlog/rest/Shared.Types/AuditLog#ViolationInfo) Optional. Policy violations |

ViolationInfo

Provides information about the Policy violation info for this request.

JSON representation

```
{
  "constraint": string,
  "errorMessage": string,
  "checkedValue": string,
  "policyType": enum (PolicyType (/logging/docs/reference/audit/auditlog/rest/Shared.Types/PolicyType))
}
```

Fields

| | |
|--------------|--|
| constraint | string Optional. Constraint name |
| errorMessage | string Optional. Error message that policy is indicating. |
| checkedValue | string Optional. Value that is being checked for the policy. This could be in encrypted form (if pii sensitive). This field will only be emitted in LIST_POLICY types |
| policyType | enum (<u>PolicyType</u> (/logging/docs/reference/audit/auditlog/rest/Shared.Types/PolicyType)) |

Fields

Optional. Indicates the type of the policy.

RequestMetadata

Metadata about the request.

JSON representation

```
{
  "callerIp": string,
  "callerSuppliedUserAgent": string,
  "callerNetwork": string,
  "requestAttributes": {
    object (Request (/logging/docs/reference/audit/auditlog/rest/Shared.Types/AuditLog#Request))
  },
  "destinationAttributes": {
    object (Peer (/logging/docs/reference/audit/auditlog/rest/Shared.Types/AuditLog#Peer))
  }
}
```

Fields

| | |
|-----------------|--|
| callerIp | string The IP address of the caller. For a caller from the internet, this will be the public IPv4 or IPv6 address. For calls made from inside Google's internal production network from one GCP service to another, callerIp will be redacted to "private". For a caller from a Compute Engine VM with a external IP address, callerIp will be the VM's external IP address. For a caller from a Compute Engine VM without a external IP address, if the VM is in the same organization (or project) as the accessed resource, callerIp will be the VM's internal IPv4 address, otherwise callerIp will be redacted to "gce-internal-ip". See https://cloud.google.com/compute/docs/vpc/ (https://cloud.google.com/compute/docs/vpc/) for more information. |
|-----------------|--|

callerSuppliedUserAgent **string**
gent

The user agent of the caller. This information is not authenticated and should be treated accordingly. For example:

Fields

- **google-api-python-client/1.4.0**: The request was made by the Google API client for Python.
 - **Cloud SDK Command Line Tool apitools-client/1.0 gcloud/0.9.62**: The request was made by the Google Cloud SDK CLI (gcloud).
 - **AppEngine-Google; (+http://code.google.com/appengine; appid: s~my-project**: The request was made from the my-project App Engine app.
-

callerNetwork**string**

The network of the caller. Set only if the network host project is part of the same GCP organization (or project) as the accessed resource. See <https://cloud.google.com/compute/docs/vpc/> (https://cloud.google.com/compute/docs/vpc/) for more information. This is a scheme-less URI full resource name. For example:

```
//compute.googleapis.com/projects/PROJECT_ID/global/network
```

requestAttributes**object (Request**

(/logging/docs/reference/audit/auditlog/rest/Shared.Types/AuditLog#Request)
)

Request attributes used in IAM condition evaluation. This field contains request attributes like request time and access levels associated with the request.

To get the whole view of the attributes used in IAM condition evaluation, the user must also look into

AuditLog.authentication_info.resource_attributes.

destinationAttributes**object (Peer**

(/logging/docs/reference/audit/auditlog/rest/Shared.Types/AuditLog#Peer))

The destination of a network activity, such as accepting a TCP connection. In a multi hop network activity, the destination represents the receiver of the last hop. Only two fields are used in this message, Peer.port and Peer.ip. These fields are optionally populated by those services utilizing the IAM condition feature.

Request

This message defines attributes for an HTTP request. If the actual request is not an HTTP request, the runtime system should try to map the actual request to an equivalent HTTP request.

JSON representation

```
{
  "id": string,
  "method": string,
  "headers": {
    string: string,
    ...
  },
  "path": string,
  "host": string,
  "scheme": string,
  "query": string,
  "time": string,
  "size": string,
  "protocol": string,
  "reason": string,
  "auth": {
    object (Auth (/logging/docs/reference/audit/auditlog/rest/Shared.Types/AuditLog#Auth))
  }
}
```

Fields

| | | |
|---------|----------------------------------|---|
| id | string | The unique ID for a request, which can be propagated to downstream systems. The ID should have low probability of collision within a single day for a specific service. |
| method | string | The HTTP request method, such as GET, POST. |
| headers | map (key: string, value: string) | The HTTP request headers. If multiple headers share the same key, they must be merged according to the HTTP spec. All header keys must be lowercased, |

Fields

| | |
|-----------------|---|
| | <p>because HTTP header keys are case-insensitive.</p> <p>An object containing a list of "key": value pairs. Example: { "name": "wrench", "mass": "1.3kg", "count": "3" }.</p> |
| path | <p>string</p> <p>The HTTP URL path, excluding the query parameters.</p> |
| host | <p>string</p> <p>The HTTP request Host header value.</p> |
| scheme | <p>string</p> <p>The HTTP URL scheme, such as http and https.</p> |
| query | <p>string</p> <p>The HTTP URL query in the format of name1=value1&name2=value2, as it appears in the first line of the HTTP request. No decoding is performed.</p> |
| time | <p>string (<u>Timestamp</u> (https://developers.google.com/protocol-buffers/docs/reference/google.protobuf#google.protobuf.Timestamp) format)</p> <p>The timestamp when the destination service receives the last byte of the request.</p> <p>A timestamp in RFC3339 UTC "Zulu" format, with nanosecond resolution and up to nine fractional digits. Examples: "2014-10-02T15:01:23Z" and "2014-10-02T15:01:23.045123456Z".</p> |
| size | <p>string (<u>int64</u> (https://developers.google.com/discovery/v1/type-format) format)</p> <p>The HTTP request size in bytes. If unknown, it must be -1.</p> |
| protocol | <p>string</p> <p>The network protocol used with the request, such as "http/1.1", "spdy/3", "h2", "h2c", "webRTC", "tcp", "udp", "quic". See https://www.iana.org/assignments/tls-extensiontype-values/tls-extensiontype-values.xhtml#alpn-protocol-ids</p> |

Fields

| | |
|---------------|---|
| | (https://www.iana.org/assignments/tls-extensiontype-values/tls-extensiontype-values.xhtml#alpn-protocol-ids) for details. |
| reason | string A special parameter for request reason. It is used by security systems to associate auditing information with a request. |
| auth | object (<u>Auth</u> (/logging/docs/reference/audit/auditlog/rest/Shared.Types/AuditLog#Auth)) The request authentication. May be absent for unauthenticated requests. Derived from the HTTP request Authorization header or equivalent. |

Auth

This message defines request authentication attributes. Terminology is based on the JSON Web Token (JWT) standard, but the terms also correlate to concepts in other standards.

JSON representation

```
{
  "principal": string,
  "audiences": [
    string
  ],
  "presenter": string,
  "claims": {
    object
  },
  "accessLevels": [
    string
  ]
}
```

Fields

| | |
|------------------|---------------|
| principal | string |
|------------------|---------------|

Fields

| | |
|--------------------|--|
| | <p>The authenticated principal. Reflects the issuer (iss) and subject (sub) claims within a JWT. The issuer and subject should be / delimited, with / percent-encoded within the subject fragment. For Google accounts, the principal format is: "https://accounts.google.com/{id}"</p> |
| audiences[] | <p>string</p> <p>The intended audience(s) for this authentication information. Reflects the audience (aud) claim within a JWT. The audience value(s) depends on the issuer, but typically include one or more of the following pieces of information:</p> <ul style="list-style-type: none"> • The services intended to receive the credential. For example, ["https://pubsub.googleapis.com/", "https://storage.googleapis.com/"]. • A set of service-based scopes. For example, ["https://www.googleapis.com/auth/cloud-platform"]. • The client id of an app, such as the Firebase project id for JWTs from Firebase Auth. <p>Consult the documentation for the credential issuer to determine the information provided.</p> |
| presenter | <p>string</p> <p>The authorized presenter of the credential. Reflects the optional Authorized Presenter (azp) claim within a JWT or the OAuth client id. For example, a Google Cloud Platform client id looks as follows: "123456789012.apps.googleusercontent.com".</p> |
| claims | <p>object (Struct format) (https://developers.google.com/protocol-buffers/docs/reference/google.protobuf#google.protobuf.Struct)</p> <p>Structured claims presented with the credential. JWTs include {key: value} pairs for standard and private claims. The following is a subset of the standard required and optional claims that would typically be presented for a Google-based JWT:</p> <pre>{'iss': 'accounts.google.com', 'sub': '113289723416554971153', 'aud': ['123456789012', 'pubsub.googleapis.com'], 'azp': '123456789012.apps.googleusercontent.com', 'email': 'jsmith@example.com', 'iat': 1353601026, 'exp': 1353604926}</pre> |

Fields

| | |
|------------------------|---|
| | SAML assertions are similarly specified, but with an identity provider dependent structure. |
| accessLevels[] | string <p>A list of access level resource names that allow resources to be accessed by authenticated requester. It is part of Secure GCP processing for the incoming request. An access level string has the format:</p> <p><code>"/{api_service_name}/accessPolicies/{policy_id}/accessLevels/{short_name}"</code></p> <p>Example:</p> <p><code>"/accesscontextmanager.googleapis.com/accessPolicies/MY_POLICY_ID/accessLevels/MY_LEVEL"</code></p> |

Peer

This message defines attributes for a node that handles a network request. The node can be either a service or an application that sends, forwards, or receives the request. Service peers should fill in **principal** and **labels** as appropriate.

JSON representation

```
{
  "ip": string,
  "port": string,
  "labels": {
    string: string,
    ...
  },
  "principal": string,
  "regionCode": string
}
```

Fields

| | |
|-----------|--|
| ip | string <p>The IP address of the peer.</p> |
|-----------|--|

Fields

| | |
|------------|--|
| port | <div>string (int64 (https://developers.google.com/discovery/v1/type-format) format)</div> <div>The network port of the peer.</div> |
| labels | <div>map (key: string, value: string)</div> <div>The labels associated with the peer.</div> <div>An object containing a list of "key": value pairs. Example: { "name": "wrench", "mass": "1.3kg", "count": "3" }.</div> |
| principal | <div>string</div> <div>The identity of this peer. Similar to <code>Request.auth.principal</code>, but relative to the peer instead of the request. For example, the identity associated with a load balancer that forwarded the request.</div> |
| regionCode | <div>string</div> <div>The CLDR country/region code associated with the above IP address. If the IP address is private, the <code>regionCode</code> should reflect the physical location where this peer is running.</div> |

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