Cloud SQL (https://cloud.google.com/sql/)

Documentation (https://cloud.google.com/sql/docs/)

MySQL (https://cloud.google.com/sql/docs/mysql/) Reference

REST Resource: instances

Resource: DatabaseInstance

A Cloud SQL instance resource.

<table>
<tr><td>

JSON representation

</td></tr>
</table>

```
{
  "kind": string,
  "state": enum (SqlInstanceState (https://cloud.google.com/sql/docs/mysql/admin-api/rest/v1bet
  "databaseVersion": enum (SqlDatabaseVersion (https://cloud.google.com/sql/docs/mysql/admin
  "settings": {
    object (Settings (https://cloud.google.com/sql/docs/mysql/admin-api/rest/v1beta4/instances#Se
  },
  "etag": string,
  "failoverReplica": {
    "name": string,
    "available": boolean
  },
  "masterInstanceName": string,
  "replicaNames": [
    string
  ],
  "maxDiskSize": string,
  "currentDiskSize": string,
  "ipAddresses": [
    {
      object (IpMapping (https://cloud.google.com/sql/docs/mysql/admin-api/rest/v1beta4/instances
    }
  ],
  "serverCaCert": {
    object (SslCert (https://cloud.google.com/sql/docs/mysql/admin-api/rest/v1beta4/sslCerts#SslCe
  },
  "instanceType": enum (SqlInstanceType (https://cloud.google.com/sql/docs/mysql/admin-api/res
  "project": string,
  "ipv6Address": string,
  "serviceAccountEmailAddress": string,
```

JSON representation

```
  "onPremisesConfiguration": {
    object (OnPremisesConfiguration (https://cloud.google.com/sql/docs/mysql/admin-api/rest/v1b
  },
  "replicaConfiguration": {
    object (ReplicaConfiguration (https://cloud.google.com/sql/docs/mysql/admin-api/rest/v1beta4
  },
  "backendType": enum (SqlBackendType (https://cloud.google.com/sql/docs/mysql/admin-api/rest/v
  "selfLink": string,
  "suspensionReason": [
    enum (SqlSuspensionReason (https://cloud.google.com/sql/docs/mysql/admin-api/rest/v1beta4/in
  ],
  "connectionName": string,
  "name": string,
  "region": string,
  "gceZone": string,
  "diskEncryptionConfiguration": {
    object (DiskEncryptionConfiguration (https://cloud.google.com/sql/docs/mysql/admin-api/res
  },
  "diskEncryptionStatus": {
    object (DiskEncryptionStatus (https://cloud.google.com/sql/docs/mysql/admin-api/rest/v1beta4
  },
  "rootPassword": string,
  "scheduledMaintenance": {
    object (SqlScheduledMaintenance (https://cloud.google.com/sql/docs/mysql/admin-api/rest/v1b
  }
}
```

Fields

kind	string
	This is always
	sql#instance
	.

Fields
state	enum (**SqlInstanceState** (https://cloud.google.com/sql/docs/mysql/admin-api/rest/v1beta4/instances#SqlInstanceState)) The current serving state of the Cloud SQL instance. This can be one of the following. **RUNNABLE** : The instance is running, or is ready to run when accessed. **SUSPENDED** : The instance is not available, for example due to problems with billing. **PENDING_CREATE** : The instance is being created. **MAINTENANCE** : The instance is down for maintenance. **FAILED** : The instance creation failed. **UNKNOWN_STATE** : The state of the instance is unknown.

Fields	
databaseVersion	enum (**SqlDatabaseVersion** (https://cloud.google.com/sql/docs/mysql/admin-api/rest/v1beta4/SqlDatabaseVersion)) The database engine type and version. The **databaseVersion** field can not be changed after instance creation. MySQL Second Generation instances: **MYSQL_5_7** (default) or **MYSQL_5_6** . PostgreSQL instances: **POSTGRES_9_6** (default) or **POSTGRES_11 Beta** MySQL First Generation instances: **MYSQL_5_6** (default) or **MYSQL_5_5**
settings	object (**Settings** (https://cloud.google.com/sql/docs/mysql/admin-api/rest/v1beta4/instances#Settings)) The user settings.

Fields	
etag	**string** This field is deprecated and will be removed from a future version of the API. Use the `settings.settingsVersion` field instead.
failoverReplica	**object** The name and status of the failover replica. This property is applicable only to Second Generation instances.
failoverReplica.name	**string** The name of the failover replica. If specified at instance creation, a failover replica is created for the instance. The name doesn't include the project ID. This property is applicable only to Second Generation instances.
failoverReplica.available	boolean The availability status of the failover replica. A false status indicates that the failover replica is out of sync. The master can only failover to the failover replica when the status is true.
masterInstanceName	**string** The name of the instance which will act as master in the replication setup.
replicaNames[]	**string** The replicas of the instance.
maxDiskSize	string ([Int64Value](https://developers.google.com/discovery/v1/type-format) `format`) The maximum disk size of the instance in bytes.

Fields	
currentDiskSize	string (Int64Value (https://developers.google.com/discovery/v1/type-format) format) The current disk usage of the instance in bytes. This property has been deprecated. Users should use the "cloudsql.googleapis.com/database/disk/bytes_used" metric in Cloud Monitoring API instead. Please see this announcement (https://groups.google.com/d/msg/google-cloud-sql-announce/I_7-F9EBhT0/BtvFtdFeAgAJ) for details.
ipAddresses[]	object (IpMapping (https://cloud.google.com/sql/docs/mysql/admin-api/rest/v1beta4/instances#IpMapping)) The assigned IP addresses for the instance.
serverCaCert	object (SslCert (https://cloud.google.com/sql/docs/mysql/admin-api/rest/v1beta4/sslCerts#SslCert)) SSL configuration.
instanceType	enum (SqlInstanceType (https://cloud.google.com/sql/docs/mysql/admin-api/rest/v1beta4/instances#SqlInstanceType)) The instance type. This can be one of the following. CLOUD_SQL_INSTANCE : A Cloud SQL instance that is not replicating from a master. ON_PREMISES_INSTANCE : An instance running on the customer's premises. READ_REPLICA_INSTANCE : A Cloud SQL instance configured as a read-replica.

Fields	
`project`	**string** The project ID of the project containing the Cloud SQL instance. The Google apps domain is prefixed if applicable.
`ipv6Address`	**string** The IPv6 address assigned to the instance. This property is applicable only to First Generation instances.
`serviceAccountEmailAddress`	**string** The service account email address assigned to the instance. This property is applicable only to Second Generation instances.
`onPremisesConfiguration`	**object (OnPremisesConfiguration** (https://cloud.google.com/sql/docs/mysql/admin-api/rest/v1beta4/instances#OnPremisesConfiguration) **)** Configuration specific to on-premises instances.
`replicaConfiguration`	**object (ReplicaConfiguration** (https://cloud.google.com/sql/docs/mysql/admin-api/rest/v1beta4/instances#ReplicaConfiguration) **)** Configuration specific to failover replicas and read replicas.

Fields	
backendType	enum (SqlBackendType (https://cloud.google.com/sql/docs/mysql/admin-api/rest/v1beta4/instances#SqlBackendType)) FIRST_GEN : First Generation instance. MySQL only. SECOND_GEN : Second Generation instance or PostgreSQL instance. EXTERNAL : A database server that is not managed by Google. This property is read-only; use the tier property in the settings object to determine the database type and Second or First Generation.
selfLink	string The URI of this resource.
suspensionReason[]	enum (SqlSuspensionReason (https://cloud.google.com/sql/docs/mysql/admin-api/rest/v1beta4/instances#SqlSuspensionReason)) If the instance state is SUSPENDED, the reason for the suspension.
connectionName	string Connection name of the Cloud SQL instance used in connection strings.
name	string Name of the Cloud SQL instance. This does not include the project ID.

Fields	
region	**string** The geographical region. Can be **us-central** (**FIRST_GEN** instances only), **us-central1** (**SECOND_GEN** instances only), **asia-east1** or **europe-west1** . Defaults to **us-central** or **us-central1** depending on the instance type (First Generation or Second Generation). The region can not be changed after instance creation.
gceZone	**string** The Compute Engine zone that the instance is currently serving from. This value could be different from the zone that was specified when the instance was created if the instance has failed over to its secondary zone.

Fields	
diskEncryptionConfiguratio n	**object (DiskEncryptionConfiguration** (https://cloud.google.com/sql/docs/mysql/admin-api/rest/v1beta4/DiskEncryptionConfiguration) **)** Disk encryption configuration specific to an instance. Applies only to Second Generation instances.
diskEncryptionStatus	**object (DiskEncryptionStatus** (https://cloud.google.com/sql/docs/mysql/admin-api/rest/v1beta4/DiskEncryptionStatus) **)** Disk encryption status specific to an instance. Applies only to Second Generation instances.
rootPassword	**string** Initial root password. Use only on creation.
scheduledMaintenance	**object (SqlScheduledMaintenance** (https://cloud.google.com/sql/docs/mysql/admin-api/rest/v1beta4/instances#SqlScheduledMaintenance) **)** The start time of any upcoming scheduled maintenance for this instance.

SqlInstanceState

The current serving state of the database instance.

Enums	
SQL_INSTANCE_STATE_UNSPECIFIED	The state of the instance is unknown.
RUNNABLE	The instance is running.
SUSPENDED	The instance is currently offline, but it may run again in the future.
PENDING_DELETE	The instance is being deleted.

Enums	
PENDING_CREATE	The instance is being created.
MAINTENANCE	The instance is down for maintenance.
FAILED	The instance failed to be created.

Settings

Database instance settings.

JSON representation

JSON representation

```
{
  "settingsVersion": string,
  "authorizedGaeApplications": [
    string
  ],
  "tier": string,
  "kind": string,
  "userLabels": {
    string: string,
    ...
  },
  "availabilityType": enum (SqlAvailabilityType (https://cloud.google.com/sql/docs/mysql/adm
  "pricingPlan": enum (SqlPricingPlan (https://cloud.google.com/sql/docs/mysql/admin-api/rest/v
  "replicationType": enum (SqlReplicationType (https://cloud.google.com/sql/docs/mysql/admin
  "storageAutoResizeLimit": string,
  "activationPolicy": enum (SqlActivationPolicy (https://cloud.google.com/sql/docs/mysql/adm
  "ipConfiguration": {
    object (IpConfiguration (https://cloud.google.com/sql/docs/mysql/admin-api/rest/v1beta4/insta
  },
  "storageAutoResize": boolean,
  "locationPreference": {
    object (LocationPreference (https://cloud.google.com/sql/docs/mysql/admin-api/rest/v1beta4/i
  },
  "databaseFlags": [
    {
      object (DatabaseFlags (https://cloud.google.com/sql/docs/mysql/admin-api/rest/v1beta4/insta
    }
  ],
  "dataDiskType": enum (SqlDataDiskType (https://cloud.google.com/sql/docs/mysql/admin-api/res
  "maintenanceWindow": {
    object (MaintenanceWindow (https://cloud.google.com/sql/docs/mysql/admin-api/rest/v1beta4/in
  },
  "backupConfiguration": {
    object (BackupConfiguration (https://cloud.google.com/sql/docs/mysql/admin-api/rest/v1beta4,
  },
  "databaseReplicationEnabled": boolean,
  "crashSafeReplicationEnabled": boolean,
  "dataDiskSizeGb": string
}
```

Fields

Fields	
settingsVersion	string (Int64Value (https://developers.google.com/discovery/v1/type-format) format) The version of instance settings. This is a required field for update method to make sure concurrent updates are handled properly. During update, use the most recent settingsVersion value for this instance and do not try to update this value.
authorizedGaeApplications[ ]	string The App Engine app IDs that can access this instance. First Generation instances only.
tier	string The tier (or machine type) for this instance, for example db-n1-standard-1 (MySQL instances) or db-custom-1-3840 (PostgreSQL instances). For MySQL instances, this property determines whether the instance is First or Second Generation. For more information, see Instance Settings (https://cloud.google.com/sql/docs/mysql/instance-settings).
kind	string This is always sql#settings .
userLabels	map (key: string, value: string) User-provided labels, represented as a dictionary where each label is a single key value pair. An object containing a list of "key": value pairs. Example: { "name": "wrench", "mass": "1.3kg", "count": "3" }.

Fields	
availabilityType	enum ([SqlAvailabilityType](https://cloud.google.com/sql/docs/mysql/admin-api/rest/v1beta4/instances#SqlAvailabilityType)) Availability type (PostgreSQL instances only). Potential values: **ZONAL** : The instance serves data from only one zone. Outages in that zone affect data accessibility. **REGIONAL** : The instance can serve data from more than one zone in a region (it is highly available). For more information, see [Overview of the High Availability Configuration](https://cloud.google.com/sql/docs/postgres/high-availability).
pricingPlan	enum ([SqlPricingPlan](https://cloud.google.com/sql/docs/mysql/admin-api/rest/v1beta4/instances#SqlPricingPlan)) The pricing plan for this instance. This can be either **PER_USE** or **PACKAGE** . Only **PER_USE** is supported for Second Generation instances.

Fields	
`replicationType`	enum (<u>SqlReplicationType</u> (https://cloud.google.com/sql/docs/mysql/admin-api/rest/v1beta4/instances#SqlReplicationType)) The type of replication this instance uses. This can be either **ASYNCHRONOUS** or **SYNCHRONOUS** . This property is only applicable to First Generation instances.
`storageAutoResizeLimit`	string (<u>Int64Value</u> (https://developers.google.com/discovery/v1/type-format) **format**) The maximum size to which storage capacity can be automatically increased. The default value is 0, which specifies that there is no limit. Not used for First Generation instances.

Fields	
`activationPolicy`	enum ([SqlActivationPolicy](https://cloud.google.com/sql/docs/mysql/admin-api/rest/v1beta4/instances#SqlActivationPolicy)) The activation policy specifies when the instance is activated; it is applicable only when the instance state is **RUNNABLE** . Valid values: **ALWAYS** : The instance is on, and remains so even in the absence of connection requests. **NEVER** : The instance is off; it is not activated, even if a connection request arrives. **ON_DEMAND** : First Generation instances only. The instance responds to incoming requests, and turns itself off when not in use. Instances with **PER_USE** pricing turn off after 15 minutes of inactivity. Instances with **PER_PACKAGE** pricing turn off after 12 hours of inactivity.
`ipConfiguration`	object ([IpConfiguration](https://cloud.google.com/sql/docs/mysql/admin-api/rest/v1beta4/instances#IpConfiguration)) The settings for IP Management. This allows to enable or disable the instance IP and manage which external networks can connect to the instance. The IPv4 address cannot be disabled for Second Generation instances.

Fields	
storageAutoResize	**boolean** Configuration to increase storage size automatically. The default value is true. Not used for First Generation instances.
locationPreference	**object (LocationPreference** (https://cloud.google.com/sql/docs/mysql/admin-api/rest/v1beta4/instances#LocationPreference)**)** The location preference settings. This allows the instance to be located as near as possible to either an App Engine app or Compute Engine zone for better performance. App Engine co-location is only applicable to First Generation instances.
databaseFlags[]	**object (DatabaseFlags** (https://cloud.google.com/sql/docs/mysql/admin-api/rest/v1beta4/instances#DatabaseFlags)**)** The database flags passed to the instance at startup.
dataDiskType	**enum (SqlDataDiskType** (https://cloud.google.com/sql/docs/mysql/admin-api/rest/v1beta4/instances#SqlDataDiskType)**)** The type of data disk: **PD_SSD** (default) or **PD_HDD** . Not used for First Generation instances.

Fields	
`maintenanceWindow`	`object (`[`MaintenanceWindow`](https://cloud.google.com/sql/docs/mysql/admin-api/rest/v1beta4/instances#MaintenanceWindow)`)` The maintenance window for this instance. This specifies when the instance can be restarted for maintenance purposes. Not used for First Generation instances.
`backupConfiguration`	`object (`[`BackupConfiguration`](https://cloud.google.com/sql/docs/mysql/admin-api/rest/v1beta4/instances#BackupConfiguration)`)` The daily backup configuration for the instance.
`databaseReplicationEnabled`	`boolean` Configuration specific to read replica instances. Indicates whether replication is enabled or not.
`crashSafeReplicationEnabled`	`boolean` Configuration specific to read replica instances. Indicates whether database flags for crash-safe replication are enabled. This property is only applicable to First Generation instances.
`dataDiskSizeGb`	`string (`[`Int64Value`](https://developers.google.com/discovery/v1/type-format)` format)` The size of data disk, in GB. The data disk size minimum is 10GB. Not used for First Generation instances.

SqlAvailabilityType

The availability type of the given Cloud SQL instance.

Enums	
`SQL_AVAILABILITY_TYPE_UNSPECIFIED`	This is an unknown Availability type.

Enums	
ZONAL	Zonal available instance.
REGIONAL	Regional available instance.

SqlPricingPlan

The pricing plan for this instance.

Enums	
SQL_PRICING_PLAN_UNSPECIFIED	This is an unknown pricing plan for this instance.
PACKAGE	The instance is billed at a monthly flat rate.
PER_USE	The instance is billed per usage.

SqlReplicationType

Enums	
SQL_REPLICATION_TYPE_UNSPECIFIED	This is an unknown replication type for a Cloud SQL instance.
SYNCHRONOUS	The synchronous replication mode for First Generation instances. It is the default value.
ASYNCHRONOUS	The asynchronous replication mode for First Generation instances. It provides a slight performance gain, but if an outage occurs while this option is set to asynchronous, you can lose up to a few seconds of updates to your data.

SqlActivationPolicy

Specifies when the instance should be activated.

Enums	
`SQL_ACTIVATION_POLICY_UNSPECIFIED`	Unknown activation plan.
`ALWAYS`	The instance is always up and running.
`NEVER`	The instance should never spin up.
`ON_DEMAND`	The instance spins up upon receiving requests.

IpConfiguration

IP Management configuration.

JSON representation
| ```
{
  "ipv4Enabled": boolean,
  "privateNetwork": string,
  "requireSsl": boolean,
  "authorizedNetworks": [
    {
      object (AclEntry (https://cloud.google.com/sql/docs/mysql/admin-api/rest/v1beta4/instances#
    }
  ]
}
``` |

Fields	
`ipv4Enabled`	**boolean** Whether the instance should be assigned an IP address or not.
`privateNetwork`	**string** The resource link for the VPC network from which the Cloud SQL instance is accessible for private IP. For example, `/projects/myProject/global/networks/default` . This setting can be updated, but it cannot be removed after it is set.

Fields	
`requireSsl`	**boolean** Whether SSL connections over IP should be enforced or not.
`authorizedNetworks[]`	**object (AclEntry** (https://cloud.google.com/sql/docs/mysql/admin-api/rest/v1beta4/instances#AclEntry) **)** The list of external networks that are allowed to connect to the instance using the IP. In CIDR notation (http://en.wikipedia.org/wiki/CIDR_notation#CIDR_notation), also known as 'slash' notation (e.g. `192.168.100.0/24`).

AclEntry

An entry for an Access Control list.

JSON representation
| ```
{
  "value": string,
  "expirationTime": string,
  "name": string,
  "kind": string
}
``` |

Fields	
`value`	**string** The whitelisted value for the access control list.

Fields	
expirationTime	string (Timestamp (https://developers.google.com/protocol-buffers/docs/reference/google.protobuf#google.protobuf.Timestamp) format) The time when this access control entry expires in RFC 3339 (https://tools.ietf.org/html/rfc3339) format, for example `2012-11-15T16:19:00.094Z` . A timestamp in RFC3339 UTC "Zulu" format, accurate to nanoseconds. Example: "`2014-10-02T15:01:23.045123456Z`".
name	string Optional. A label to identify this entry.
kind	string This is always `sql#aclEntry` .

LocationPreference

Preferred location. This specifies where a Cloud SQL instance should preferably be located, either in a specific Compute Engine zone, or co-located with an App Engine application. Note that if the preferred location is not available, the instance will be located as close as possible within the region. Only one location may be specified.

JSON representation
| ```
{
  "followGaeApplication": string,
  "zone": string,
  "kind": string
}
``` |

Fields	
`followGaeApplication`	**string** The App Engine application to follow, it must be in the same region as the Cloud SQL instance.
`zone`	**string** The preferred Compute Engine zone (e.g. us-central1-a, us-central1-b, etc.).
`kind`	**string** This is always `sql#locationPreference` .

DatabaseFlags

Database flags for Cloud SQL instances.

JSON representation

<pre>{
  "name": string,
  "value": string
}</pre>

Fields	
`name`	**string** The name of the flag. These flags are passed at instance startup, so include both server options and system variables for MySQL. Flags should be specified with underscores, not hyphens. For more information, see Configuring Database Flags (https://cloud.google.com/sql/docs/mysql/flags) in the Cloud SQL documentation.

Fields	
value	string The value of the flag. Booleans should be set to **on** for true and **off** for false. This field must be omitted if the flag doesn't take a value.

SqlDataDiskType

The type of disk that is used for a v2 instance to use.

Enums	
SQL_DATA_DISK_TYPE_UNSPECIFIED	This is an unknown data disk type.
PD_SSD	An SSD data disk.
PD_HDD	An HDD data disk.
OBSOLETE_LOCAL_SSD	This field is deprecated and will be removed from a future version of the API.
⚠	This item is deprecated!

MaintenanceWindow

Maintenance window. This specifies when a v2 Cloud SQL instance should preferably be restarted for system maintenance purposes.

JSON representation

JSON representation

```
{
  "hour": integer,
  "day": integer,
  "updateTrack": enum (SqlUpdateTrack (https://cloud.google.com/sql/docs/mysql/admin-api/rest/v
  "kind": string
}
```

Fields

hour	**integer** hour of day - 0 to 23.
day	**integer** day of week (1-7), starting on Monday.
updateTrack	enum (SqlUpdateTrack (https://cloud.google.com/sql/docs/mysql/admin-api/rest/v1beta4/instances#SqlUpdateTrack)) Maintenance timing setting: **canary** (Earlier) or **stable** (Later). Learn more (https://cloud.google.com/sql/docs/mysql/instance-settings#maintenance-timing-2ndgen) .
kind	**string** This is always **sql#maintenanceWindow** .

SqlUpdateTrack

Enums	
SQL_UPDATE_TRACK_UNSPECIFIED	This is an unknown maintenance timing preference.
canary	For instance update that requires a restart, this update track indicates your instance prefer to restart for new version early in maintenance window.
stable	For instance update that requires a restart, this update track indicates your instance prefer to let Cloud SQL choose the timing of restart (within its Maintenance window, if applicable).

BackupConfiguration

Database instance backup configuration.

JSON representation
```{   "startTime": string,   "enabled": boolean,   "kind": string,   "binaryLogEnabled": boolean,   "replicationLogArchivingEnabled": boolean,   "location": string }```

Fields	
startTime	**string** Start time for the daily backup configuration in UTC timezone in the 24 hour format - `HH:MM` .

Fields	
enabled	**boolean** Whether this configuration is enabled.
kind	**string** This is always **sql#backupConfiguration** .
binaryLogEnabled	**boolean** Whether binary log is enabled. If backup configuration is disabled, binary log must be disabled as well.
replicationLogArchivingEnabled	**boolean** Reserved for future use.
location	**string** Location of the backup

IpMapping

Database instance IP Mapping.

JSON representation

``
{
  "type": enum (SqlIpAddressType (https://cloud.google.com/sql/docs/mysql/admin-api/rest/v1beta
  "ipAddress": string,
  "timeToRetire": string
}
``

Fields

Fields	
type	enum (SqlIpAddressType (https://cloud.google.com/sql/docs/mysql/admin-api/rest/v1beta4/instances#SqlIpAddressType)) The type of this IP address. A **PRIMARY** address is a public address that can accept incoming connections. A **PRIVATE** address is a private address that can accept incoming connections. An **OUTGOING** address is the source address of connections originating from the instance, if supported.
ipAddress	string The IP address assigned.
timeToRetire	string (Timestamp (https://developers.google.com/protocol-buffers/docs/reference/google.protobuf#google.protobuf.Timestamp) format) The due time for this IP to be retired in RFC 3339 (https://tools.ietf.org/html/rfc3339) format, for example `2012-11-15T16:19:00.094Z` . This field is only available when the IP is scheduled to be retired. A timestamp in RFC3339 UTC "Zulu" format, accurate to nanoseconds. Example: `"2014-10-02T15:01:23.045123456Z"`.

SqlIpAddressType

Enums	
`SQL_IP_ADDRESS_TYPE_UNSPEC` `IFIED`	This is an unknown IP address type.
`PRIMARY`	IP address the customer is supposed to connect to. Usually this is the load balancer's IP address
`OUTGOING`	Source IP address of the connection a read replica establishes to its external master. This IP address can be whitelisted by the customer in case it has a firewall that filters incoming connection to its on premises master.
`PRIVATE`	Private IP used when using private IPs and network peering.
`MIGRATED_1ST_GEN`	V1 IP of a migrated instance. We want the user to decommission this IP as soon as the migration is complete. Note: V1 instances with V1 ip addresses will be counted as PRIMARY.

SqlInstanceType

Enums	
`SQL_INSTANCE_TYPE_UNSPECIF` `IED`	This is an unknown Cloud SQL instance type.
`CLOUD_SQL_INSTANCE`	A regular Cloud SQL instance.
`ON_PREMISES_INSTANCE`	An instance running on the customer's premises that is not managed by Cloud SQL.
`READ_REPLICA_INSTANCE`	A Cloud SQL instance acting as a read-replica.

OnPremisesConfiguration

On-premises instance configuration.

JSON representation

JSON representation

```
{
  "hostPort": string,
  "kind": string,
  "caCertificate": string,
  "clientCertificate": string,
  "clientKey": string
}
```

Fields

`hostPort`	**string** The host and port of the on-premises instance in host:port format
`kind`	**string** This is always **sql#onPremisesConfiguration** .
`caCertificate`	**string** PEM representation of the trusted CA's x509 certificate.
`clientCertificate`	**string** PEM representation of the slave's x509 certificate.
`clientKey`	**string** PEM representation of the slave's private key. The corresponding public key is encoded in the client's certificate.

ReplicaConfiguration

Read-replica configuration for connecting to the master.

JSON representation

JSON representation

```
{
  "kind": string,
  "mysqlReplicaConfiguration": {
    object (MySqlReplicaConfiguration (https://cloud.google.com/sql/docs/mysql/admin-api/rest/v
  },
  "failoverTarget": boolean
}
```

Fields

kind	**string** This is always **sql#replicaConfiguration** .
mysqlReplicaConfiguration	object (**MySqlReplicaConfiguration** (https://cloud.google.com/sql/docs/mysql/admin-api/rest/v1beta4/instances#MySqlReplicaConfiguration)) MySQL specific configuration when replicating from a MySQL on-premises master. Replication configuration information such as the username, password, certificates, and keys are not stored in the instance metadata. The configuration information is used only to set up the replication connection and is stored by MySQL in a file named **master.info** in the data directory.

Fields	
failoverTarget	**boolean** Specifies if the replica is the failover target. If the field is set to **true** the replica will be designated as a failover replica. In case the master instance fails, the replica instance will be promoted as the new master instance. Only one replica can be specified as failover target, and the replica has to be in different zone with the master instance.

MySqlReplicaConfiguration

Read-replica configuration specific to MySQL databases.

JSON representation

```
{
  "dumpFilePath": string,
  "username": string,
  "password": string,
  "connectRetryInterval": integer,
  "masterHeartbeatPeriod": string,
  "caCertificate": string,
  "clientCertificate": string,
  "clientKey": string,
  "sslCipher": string,
  "verifyServerCertificate": boolean,
  "kind": string
}
```

Fields

Fields	
dumpFilePath	string Path to a SQL dump file in Google Cloud Storage from which the slave instance is to be created. The URI is in the form gs: //bucketName/fileName. Compressed gzip files (.gz) are also supported. // Dumps should have the binlog co-ordinates from which replication should // begin. This can be accomplished by setting --master-data to 1 when using // mysqldump.
username	string The username for the replication connection.
password	string The password for the replication connection.
connectRetryInterval	integer Seconds to wait between connect retries. MySQL's default is 60 seconds.
masterHeartbeatPeriod	string (Int64Value (https://developers.google.com/discovery/v1/type-format) format) Interval in milliseconds between replication heartbeats.
caCertificate	string PEM representation of the trusted CA's x509 certificate.
clientCertificate	string PEM representation of the slave's x509 certificate.
clientKey	string PEM representation of the slave's private key. The corresponsing public key is encoded in the client's certificate.
sslCipher	string A list of permissible ciphers to use for SSL encryption.

Fields	
verifyServerCertificate	boolean Whether or not to check the master's Common Name value in the certificate that it sends during the SSL handshake.
kind	string This is always `sql#mysqlReplicaConfiguration` .

SqlBackendType

Enums	
SQL_BACKEND_TYPE_UNSPECIFIED	This is an unknown backend type for instance.
FIRST_GEN	V1 speckle instance.
SECOND_GEN	V2 speckle instance.
EXTERNAL	On premises instance.

SqlSuspensionReason

The suspension reason of the database instance if the state is SUSPENDED.

Enums	
SQL_SUSPENSION_REASON_UNSPECIFIED	This is an unknown suspension reason.
BILLING_ISSUE	The instance is suspended due to billing issues (e.g., GCP account issue)

Enums	
LEGAL_ISSUE	The instance is suspended due to illegal content (e.g., child pornography, copyrighted material, etc.).
OPERATIONAL_ISSUE	The instance is causing operational issues (e.g., causing the database to crash).
KMS_KEY_ISSUE	The KMS key used by the instance is either revoked or denied access to

SqlScheduledMaintenance

Any scheduled maintenancce for this instance.

JSON representation

{
  "startTime": string,
  "canDefer": boolean,
  "canReschedule": boolean
}

Fields	
startTime	string (Timestamp (https://developers.google.com/protocol-buffers/docs/reference/google.protobuf#google.protobuf.Timestamp) format) The start time of any upcoming scheduled maintenance for this instance. A timestamp in RFC3339 UTC "Zulu" format, accurate to nanoseconds. Example: "2014-10-02T15:01:23.045123456Z".
canDefer (deprecated)	boolean ⚠ This item is deprecated!
canReschedule	boolean If the scheduled maintenance can be rescheduled.

Methods	
addServerCa (https://cloud.google.com/sql/docs/mysql/admin-api/rest/v1beta4/instances/addServerCa)	Add a new trusted Certificate Authority (CA) version for the specified instance.
clone (https://cloud.google.com/sql/docs/mysql/admin-api/rest/v1beta4/instances/clone)	Creates a Cloud SQL instance as a clone of the source instance.
delete (https://cloud.google.com/sql/docs/mysql/admin-api/rest/v1beta4/instances/delete)	Deletes a Cloud SQL instance.
demoteMaster (https://cloud.google.com/sql/docs/mysql/admin-api/rest/v1beta4/instances/demoteMaster)	Demotes the stand-alone instance to be a Cloud SQL read replica for an external database server.
export (https://cloud.google.com/sql/docs/mysql/admin-api/rest/v1beta4/instances/export)	Exports data from a Cloud SQL instance to a Cloud Storage bucket as a SQL dump or CSV file.
failover (https://cloud.google.com/sql/docs/mysql/admin-api/rest/v1beta4/instances/failover)	Failover the instance to its failover replica instance.
get (https://cloud.google.com/sql/docs/mysql/admin-api/rest/v1beta4/instances/get)	Retrieves a resource containing information about a Cloud SQL instance.
import (https://cloud.google.com/sql/docs/mysql/admin-api/rest/v1beta4/instances/import)	Imports data into a Cloud SQL instance from a SQL dump or CSV file in Cloud Storage.
insert (https://cloud.google.com/sql/docs/mysql/admin-api/rest/v1beta4/instances/insert)	Creates a new Cloud SQL instance.
list (https://cloud.google.com/sql/docs/mysql/admin-api/rest/v1beta4/instances/list)	Lists instances under a given project.
listServerCas (https://cloud.google.com/sql/docs/mysql/admin-api/rest/v1beta4/instances/listServerCas)	Lists all of the trusted Certificate Authorities (CAs) for the specified instance.

Methods	
patch (https://cloud.google.com/sql/docs/mysql/admin -api/rest/v1beta4/instances/patch)	Updates settings of a Cloud SQL instance.
promoteReplica (https://cloud.google.com/sql/docs/mysql/admin -api/rest/v1beta4/instances/promoteReplica)	Promotes the read replica instance to be a stand-alone Cloud SQL instance.
resetSslConfig (https://cloud.google.com/sql/docs/mysql/admin -api/rest/v1beta4/instances/resetSslConfig)	Deletes all client certificates and generates a new server SSL certificate for the instance.
restart (https://cloud.google.com/sql/docs/mysql/admin -api/rest/v1beta4/instances/restart)	Restarts a Cloud SQL instance.
restoreBackup (https://cloud.google.com/sql/docs/mysql/admin -api/rest/v1beta4/instances/restoreBackup)	Restores a backup of a Cloud SQL instance.
rotateServerCa (https://cloud.google.com/sql/docs/mysql/admin -api/rest/v1beta4/instances/rotateServerCa)	Rotates the server certificate to one signed by the Certificate Authority (CA) version previously added with the addServerCA method.
startReplica (https://cloud.google.com/sql/docs/mysql/admin -api/rest/v1beta4/instances/startReplica)	Starts the replication in the read replica instance.
stopReplica (https://cloud.google.com/sql/docs/mysql/admin -api/rest/v1beta4/instances/stopReplica)	Stops the replication in the read replica instance.
truncateLog (https://cloud.google.com/sql/docs/mysql/admin -api/rest/v1beta4/instances/truncateLog)	Truncate MySQL general and slow query log tables
update (https://cloud.google.com/sql/docs/mysql/admin -api/rest/v1beta4/instances/update)	Updates settings of a Cloud SQL instance.

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