

Google Secret Manager

说明: 秘密资料加密存储管理云端工具

Google Cloud Platform

Google Cloud Platform lets you build, deploy, and scale applications, websites, and services on the same infrastructure as Google.

G https://console.cloud.google.com/security/secret-manager



项目创建页面

Google Cloud Platform

Google Cloud Platform lets you build, deploy, and scale applications, websites, and services on the same infrastructure as Google.

6 https://console.cloud.google.com/projectselector2/home/dashboard



所有 cloud服务使用前提: 创建并使用"服务账号密钥"

Authenticating as a service account | Authentication | Google Cloud

"type": "thumb-down", "id": "hardToUnderstand", "label":"Hard to understand" },{ "type": "thumb-down", "id": "incorrectInformationOrSampleCode", "label":"Incorrect information or sample code" },{ "type": "thumb-down", "id": "missingTheInformationSamplesINeed", "label":"Missing the





- 进入以上页面,往下翻到"创建服务帐号"位置,创建或选择已有的服务账号密钥,下载密钥json文件
- 然后选择使用"通过环境变量传递凭据"来使用这个密钥,比如mac上使用方法跟文档说明略微不同,仅仅export命令不行, 有效的方法为:

nano ~/.bash_profile export GOOGLE_APPLICATION_CREDENTIALS="[上面的JSON_PATH]" //添加此行并保存退出 source \sim /.bash_profile

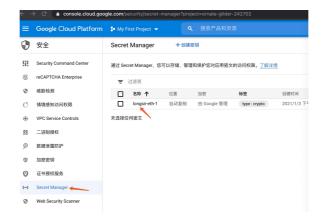
• 点击以下链接,使用secret manager的控制台创建需要保护的密钥文本, 取名→输入文本/上传文件→默认选项→创建

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• 然后在密钥列表中



• 点击刚创建的"名称",进入密钥详情页面

Secret: "longsir-eth-1"

projects/661232270843/secrets/longsir-eth-1

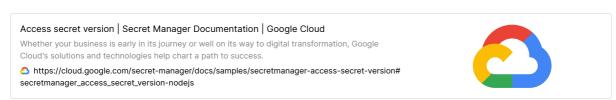


未选择任何版本

• 点击某个版本最右边的操作按钮(3个点),复制资源id给程序使用



• 点击以下链接,然后选择node.js代码示例,name更换为上一步的资源id,运行脚本即可获得受保护的密钥



示例代码

```
/**
* 官方样码:https://cloud.google.com/secret-manager/docs/samples/secretmanager-access-secret-version#secretmanager_access_secret_version#secretmanager_access_secret_version#secretmanager_access_secret_version#secretmanager_access_secret_version#secretmanager_access_secret_version#secretmanager_access_secret_version#secretmanager_access_secret_version#secretmanager_access_secret_version#secretmanager_access_secret_version#secretmanager_access_secret_version#secretmanager_access_secret_version#secretmanager_access_secret_version#secretmanager_access_secret_version#secretmanager_access_secret_version#secretmanager_access_secret_version#secretmanager_access_secret_version#secretmanager_access_secret_version#secretmanager_access_secret_version#secretmanager_access_secret_version#secretmanager_access_secret_version#secretmanager_access_secret_version#secretmanager_access_secret_version#secretmanager_access_secret_version#secretmanager_access_secret_version#secretmanager_access_secretmanager_access_secretmanager_access_secretmanager_access_secretmanager_access_secretmanager_access_secretmanager_access_secretmanager_access_secretmanager_access_secretmanager_access_secretmanager_access_secretmanager_access_secretmanager_access_secretmanager_access_secretmanager_access_secretmanager_access_secretmanager_access_secretmanager_access_secretmanager_access_secretmanager_access_secretmanager_access_secretmanager_access_secretmanager_access_secretmanager_access_secretmanager_access_secretmanager_access_secretmanager_access_secretmanager_access_secretmanager_access_secretmanager_access_secretmanager_access_secretmanager_access_secretmanager_access_secretmanager_access_secretmanager_access_secretmanager_access_secretmanager_access_secretmanager_access_secretmanager_access_secretmanager_access_secretmanager_access_secretmanager_access_secretmanager_access_secretmanager_access_secretmanager_access_secretmanager_access_secretmanager_access_secretmanager_access_secretmanager_access_secretmanager_access_secretmanager_access_secretmana
const {SecretManagerServiceClient} = require('@google-cloud/secret-manager');
const client = new SecretManagerServiceClient();
const mySecretProject = 'projects/661232270843'
//full secret path: projects/661232270843/secrets/longsir-eth-1/versions/4
const mySecretProjectPath = mySecretProject + '/secrets'
  * 创建一个名为secretId的密钥,设置其值需要使用addSecretVersion
  * @param {string} secretId https://console.cloud.google.com/security/secret-manager 页面的名称栏所表示的id
async function createSecret(secretId) {
   const [secret] = await client.createSecret({
       parent: mySecretProject,
       secretId: secretId,
          replication: {
              automatic: {},
          },
    });
   console.log(`Created secret ${secret.name}`);
  * 添加一个secretStr到secretId所表示密钥中,版本自动递增1
  * @param {string} secretId https://console.cloud.google.com/security/secret-manager 页面的名称栏所表示的id
  * @param {string} secretStr 设定值
async function addSecretVersion(secretId, secretStr) {
  const payload = Buffer.from(secretStr, 'utf8');
    const [version] = await client.addSecretVersion({
       parent: mySecretProjectPath + '/' + secretId,
       payload: {
         data: payload,
   console.log(`Added secret version ${version.name}`);
  * 获取名为secretId的密钥的versionId对应的版本值
  * @param {string} secretId https://console.cloud.google.com/security/secret-manager 页面的名称栏所表示的id
  * @param {string} versionId 第几个版本, "latest" 表示最新版本,版本号最大的那个
async function accessSecretVersion(secretId, versionId = 1) {
   const [version] = await client.accessSecretVersion({
       name: mySecretProjectPath + '/' + secretId + '/versions/' + versionId
    let v = version.payload.data.toString();
   console.info(`The secret version is: ${v}`);
   return v:
}
  * 删除名为secretId的密钥, 如: projects/my-project/secrets/my-secret 中的 my-secret
  * @param {string} secretId https://console.cloud.google.com/security/secret-manager 页面的名称栏所表示的id
async function deleteSecret(secretId) {
  let name = mySecretProjectPath + '/' + secretId
    await client.deleteSecret({
       name: name,
    });
   console.log(`Deleted secret ${name}`);
}
  * 查询是否有特定的secretId, 比如:projects/661232270843/secrets/longsir-eth-1
  * @param {string} secretId
async function getSecret(secretId) {
    try{
           const [secret] = await client.getSecret({
                   name: mySecretProjectPath + '/' + secretId,
```

```
return secret && secret.name
              } catch(e) {
                              return false;
   /**
* 列出所有的secretId
*/
  async function listSecrets() {
  const [secrets] = await client.listSecrets({
    parent: mySecretProject,
              let arr = []
              secrets.forEach(secret => {
            arr.push(secret.name);
});
return arr;
     // createSecret('test1')
  // addSecretVersion('test1', 'my super secret data');
// accessSecretVersion('test1', 1);
// deleteSecret('test1');
// setSecret('ls-
     // getSecret('longsir-eth-1');
   // listSecrets();
   module.exports = {
           createSecret,
addSecretVersion,
            accessSecretVersion,
           deleteSecret,
            getSecret,
           listSecrets
```