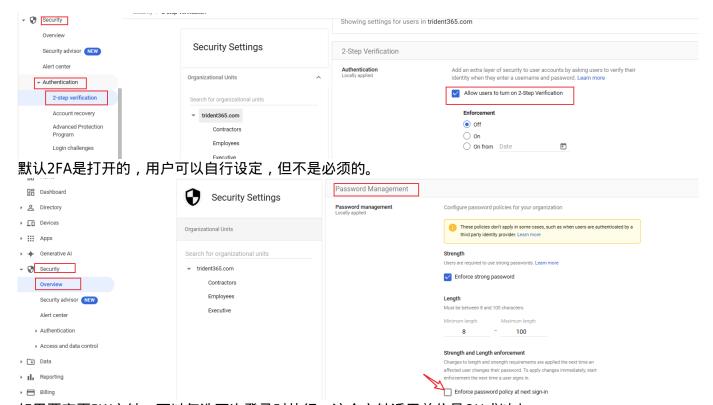
2025/04/21 19:26 1/19 第3章 GWS安全

# 第3章 GWS安全

#### 练习1

准备GWS域名,已经完成,略

### 配置通用安全设定



如果要变更PW方针,可以勾选下次登录时执行,这个方针适用单位是OU或以上。

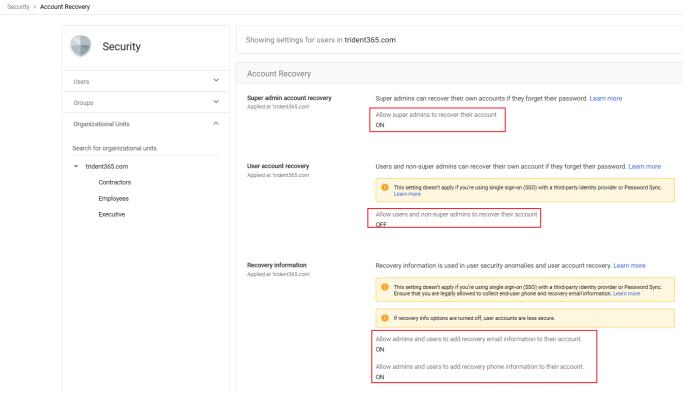
Showing settings for users in trident365.com Security Settings Less Secure Apps Users Less secure apps Control user access to apps that use less secure sign-in Groups technology and make accounts more vulnerable. Learn more Organizational Units Starting in Summer of 2024, Google Workspace accounts will no Search for organizational units Google Account with your username and password. To access platform-specific and third-party apps, you must use OAuth. To ▼ trident365.com prepare for this change, visit Transition from less secure apps to Employees Disable access to less secure apps (Recommended) Allow users to manage their access to less secure apps

Most changes take effect in a few minutes. Learn more

这里刚好有一个更新,2025年1月之后,所有第三方APP

https://support.google.com/a/answer/14114704?hl=ja&sjid=8401829336969536596-AP 还有一个设置是恢复账户□Console里设置了权限,默认只有超级管理员可以恢复用户账号密码

Security > Less Secure Apps



这里把Allow users and non-super admins to recover their account设为ON□保存。

#### 练习2

#### 查看用户安全设置

ADMIN	User details Security Groups	Investigate
Alex Bell alex.bell@trident365.com	Security	
Active Last sign in: Hasn't signed in	Password settings	
Created: Jan 19, 2025	Password	Reset Alex's password.
Organizational unit trident365.com > <b>Executive</b>	Security keys	Alex has no security keys. Learn more
RESET PASSWORD		
UPDATE USER	Advanced Protection	OFF
ADD ALTERNATE EMAILS		Once you turn off Advanced Protection enrollment, only the user can re-enroll. Learn more
ADD TO GROUPS		Trouble signing in  Use a backup code for users who are unable to use their security key to sign in. Get a backup code from the 2-Step Verification card.
EMAIL		
SUSPEND USER	2-step verification	OFF   Not enforced across your organization
RESTORE DATA		The ability for users to sign in with an additional authentication factor, in addition to using their username and password (e.g. a verification code). Change security settings Only the user can turn on 2-step verification.
DELETE LISER		Learn more

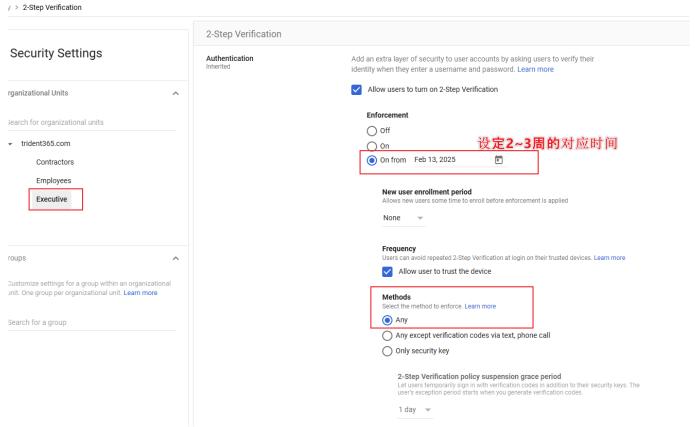
Recovery information Emai Add a recovery email Add a recovery phone Recovery information is used to secure user accounts at sign-in and during account recovery. Require password change This password won't need to be changed once Alex signs in Login challenge Turn off identity questions for 10 minutes after a suspicious attempt to sign in. Learn more Sign in cookies Resets the user's sign-in cookies, which also signs them out of their account across all devices and browsers. Application integrations Application-specific password 0 application-specific passwords. Learn more Connected applications 0 applications connected to this user. Learn more

作为管理员,可以强制用户重置密码,也可以为他添加恢复用邮箱和电话号码。另外,当用户登录活动可疑时,如果不能正确验明身份,则账户会被锁,这时管理员可以暂时关闭验证,以让用户本人可以正常登录,修改密码。 还可以查看该账号连携了哪些APP 100名以上用户的IT管理员检查清

单:https://support.google.com/a/answer/9211704

### 练习3

强制2FA

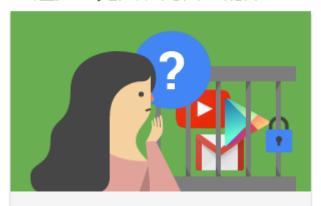


然后找一个高管的邮箱,比如Alex登录后,会出现提示

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#### 避免您无法访问自己的账号



您所在的网域即将强制实行两步验证 政策,以便提升账号安全性。

此政策将于 2025年2月13日起强制实行,届时系统将会在您登录账号时要求您输入动态密码。

为了避免您无法访问自己的账号,请 立即注册两步验证。

详细了解两步验证。

注册

以后再说



对于已经使用SSO登录的公司来说,不需要设置

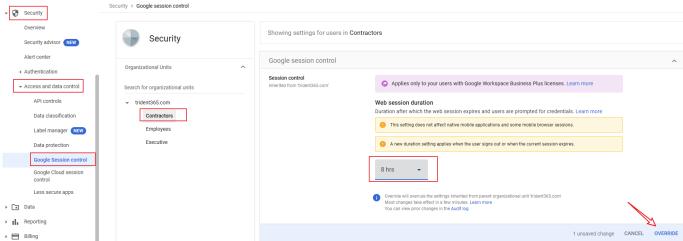
#### 有4种方式

- 1. 通行密钥和安全密钥
- 2. Google提示(如手机端的Gmail]
- 3. 身份验证器 (二维码或是OTP等)
- 4. 电话号码(验证码或语音电话)

参考链接https://support.google.com/a/answer/9176657 我们可以单独建立一个Group[]对OU关闭2FA[]但对Group是打开。

#### 练习4

我们可以控制用户访问谷歌服务的会话时长,从1小时到默认的14天。



只对外包人员设置更短的会话时长。

### 测试1

The IT manager at your organization wants to know the advantages of using 2-step verification for your organization. What should you say? (Choose 2)

- 1. It'll greatly reduce the risk of unauthorized access if a user's password is compromised
- 2. We wouldn't have to manage individual user IDs and passwords for each user
- 3. It would be a great opportunity to make sure everyone is the organization has a security key
- 4. It'll reinforce our domain's password security by requiring our users to enter an additional code or use a security key to sign in

What are some best practices for reinforcing and monitoring the security of your domain?

- 1. All the options
- Disable access to less secure apps
- 3. Set up 2-step verification
- 4. View and manage your users' security settings

Where do you go to manage your users' password strength?

- 1. Security > Password management
- 2. Reports > Security
- 3. Users > Account
- 4. Security > Password monitoring

The IT manager at your organization hasn't had a chance to explore the admin console yet but wants to know what individual security settings he can manage for a user. What are some examples you could give him? (Choose 3)

- 1. Review a user's administrative access
- 2. Require a password change
- 3. Temporarily disable the user's login challenge for 10 minutes
- 4. Determine if the user is enrolled in 2-step verification

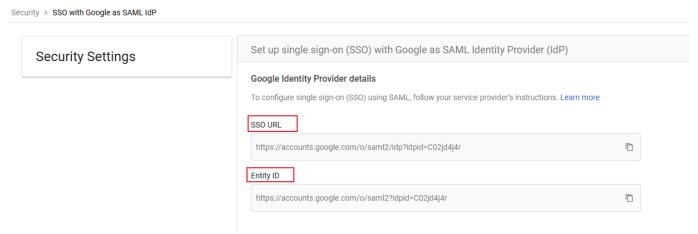
Your organization has decided to enforce 2-step verification in 2 weeks. What actions should you keep

in mind when enforcing 2-step verification? (Choose 3)

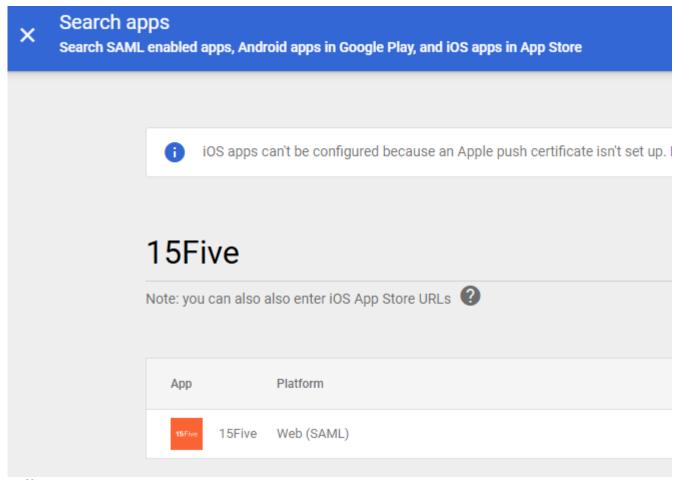
- 1. You'll want to provide a lead time for users to enroll before enforcement
- 2. Enforcing 2-step verification will not affect your users as they can still opt-out.
- When you create new user accounts after enforcement, you will want to allow them a grace period before they need to enroll otherwise they will be locked out of their accounts
- 4. You'll want to confirm that all of your users are enrolled before enforcement

#### SSO介绍

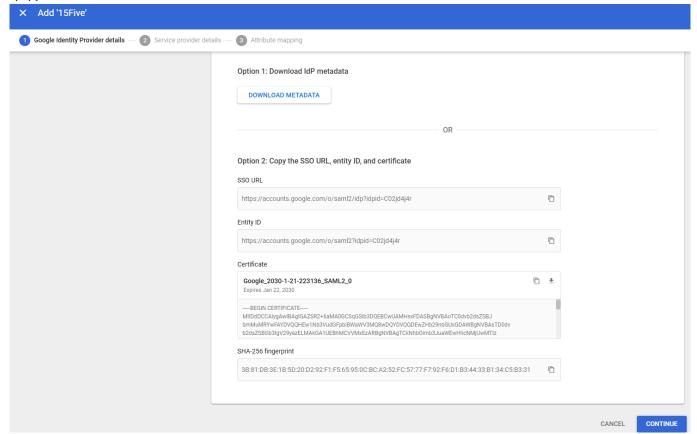
#### 练习1



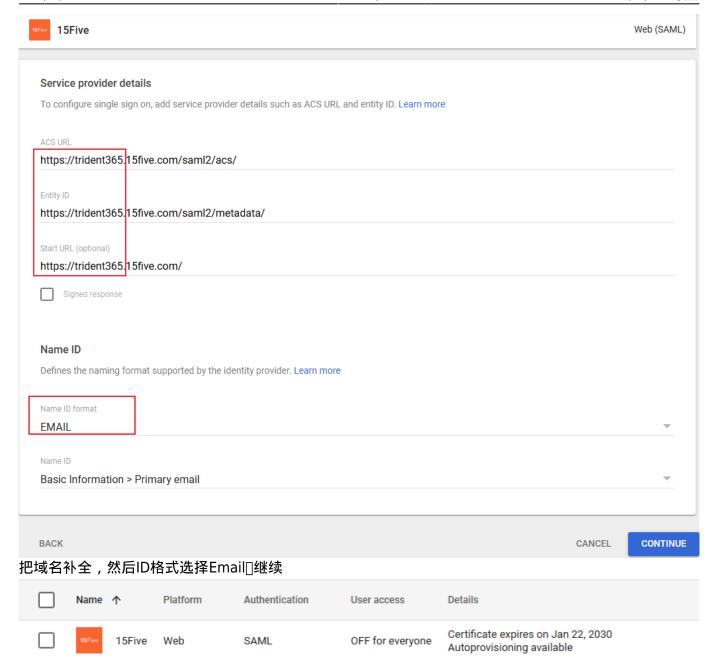
如果要使用SAML来实现SSO□则需要同第三方服务商确认SSO的URL和EntityID信息□ App>Search for apps,根据练习要求,搜索15Five



#### 下载Metadata

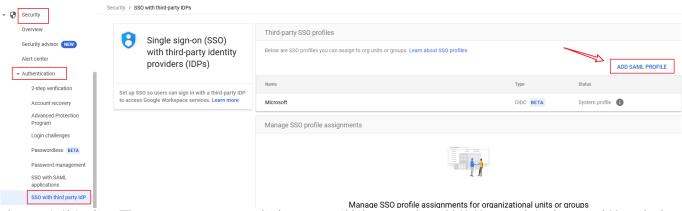


详细设定指导的URL https://support.google.com/a/answer/7649387?hl=en#setup



完成后,按照指导URL一步步操作才能用。因为公司用的HenngeOne[所以GWS上的操作也可以免了。。

### 练习2



这里要上传证书,需要OpenSSL□而且只能在Chrome浏览器,不能用其他的。 没有证书,所以练习略过。

#### **Secure LDAP**

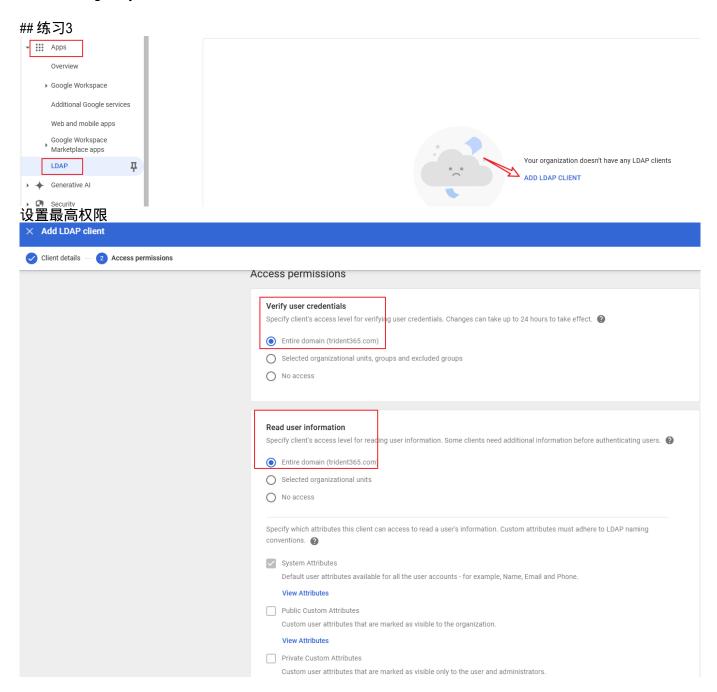
同时管理SaaS和传统程序,需要LDAP服务,除了微软的AD外,还有谷歌的Secure LDAP[]



Use your Google directory as an LDAP server for authentication, authorization and directory

#### 步骤

- Create LDAP client in the Admin console
- Configure your LDAP client to connect to the secure LDAP service





Next, connect your client to the LDAP service

1. Download the generated certificate (it might take a few minutes to generate).

Want to do this later? You can generate and download a certificate at any time from the client's details page.

Google\_2028\_01\_23\_25283 Expires January 23, 2028

Download certificate

Upload the certificate to your LDAP client and configure the application. Configuration might require LDAP access credentials. Learn more

**CONTINUE TO CLIENT DETAILS** 

相关资料: https://support.google.com/a/topic/9173976 https://support.google.com/a/answer/9089736 类似于加入AD域的操作。

#### 测试2

What of the following are true of the Secure LDAP service? (Choose 3)

- 1. User's authenticate against a local directory to gain access to Google Workspace services
- 2. It reduces maintenance as directory information is consolidated into one directory
- 3. It allows you to connect your LDAP-based applications and services to Google Workspace
- 4. Users authenticate against the Google Workspace directory to gain access to LDAP compliant applications and services

When adding a pre-integrated SAML application to your Google Workspace account, which of the following must you add/upload the Service Provider's configuration? (Choose 3)

- 1. Change Password URL
- 2. Google Certificate
- 3. Entity ID URL
- 4. SSO URL

When using a third party IdP which of the following is disabled/hidden in Google Workspace?

- 1. Password reuse policy
- 2. Password recovery
- 3. Require password change
- 4. Password monitoring

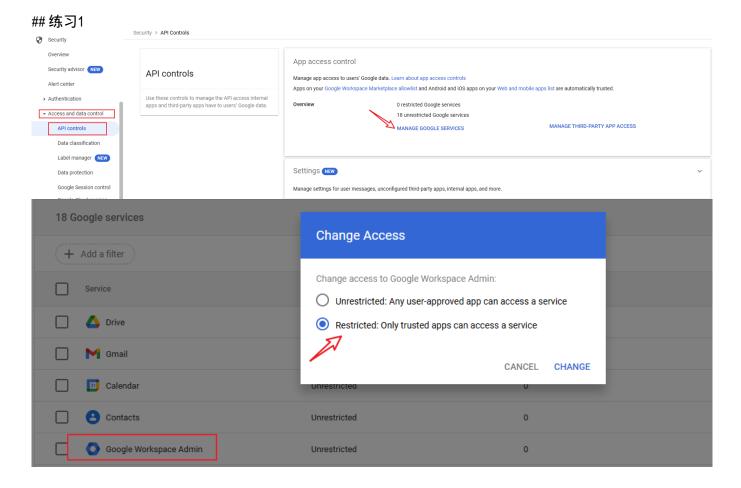
Your IT manager has just informed you that your organization has an account now with Asana and would like you to enable Single Sign On with the application. Where in the admin console would you

go to configure a third-party pre-integrated cloud application, like Asana, as your service provider?

- Apps > Web and mobile apps > Add App > Search for apps. Then search for Asana from the list of predefined applications
- 2. Security > Set up single sign-on (SSO) for SAML applications and provide the necessary information
- 3. Apps > Web and mobile apps > plus sign (+) > SETUP MY OWN CUSTOM APP from the Enable SSO for SAML Application window
- 4. Apps > Settings > Third-party integrations. Then search for Asana.

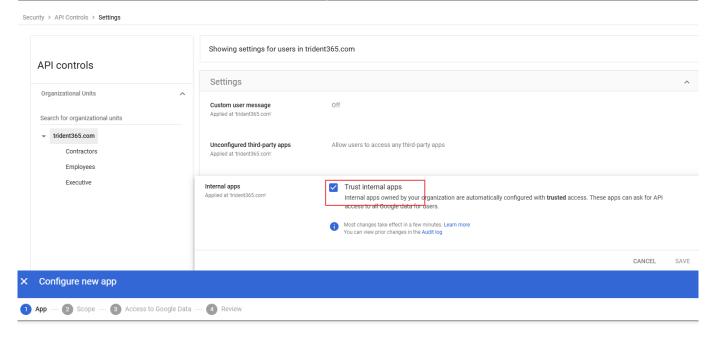
## App安全

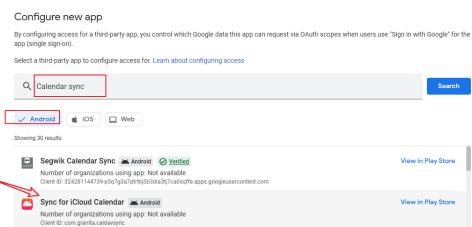
- 1. Control access from the Admin SDK API
- 2. Block access to a specific service
- 3. Create a trusted application list
- 4. Explore the GWS Marketplace

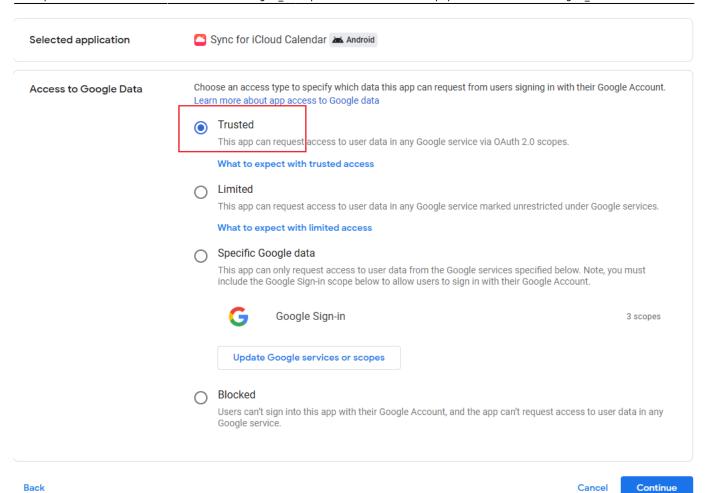


#### 练习2

有许多第三方APP会连到GWS上,作为管理员要进行控制。







最后点FINISH□然后再把它限制

Access to Google Data

Select what type of access this app has to Google data for users in the selected org unit.

Learn more about app access

Trusted

App can request access to all Google data

Limited

App can request access to unrestricted Google data

Specific Google data

This app can only request access to user data from the Google services specified below. Note, you must include the Google Sign-in scope below to allow users to sign in with their Google Account.



Google Sign-in

3 scopes

Update Google services or scopes

Blocked

App can't request access to any Google data

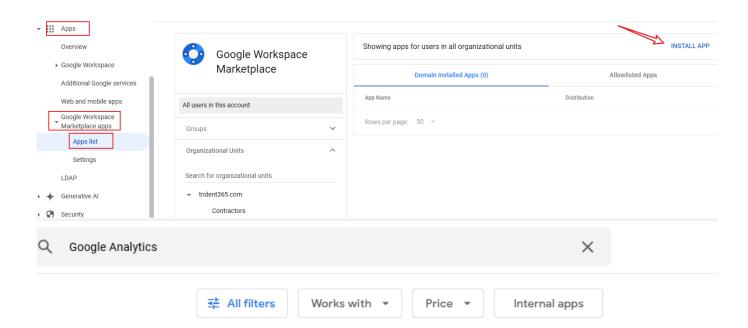
BACK CANCEL NEXT



1.如果你想禁用API访问,但想使用某些已经安装的应用,则把这些应用放到TrustedList中, 然后再禁用API 2.当用户想安装被禁用的APP□会收到错误信息

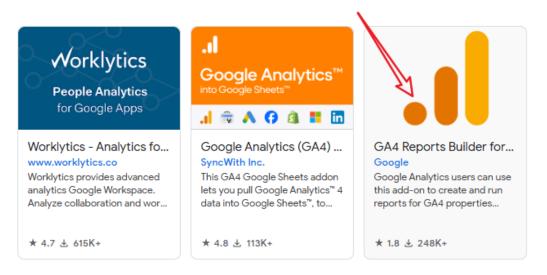
参考链接:https://support.google.com/a/answer/7281227

#### 练习3



#### Search results for Google Analytics

Google doesn't verify reviews or ratings. Learn more about reviews and results 🗷



#### 安装GA4



# GA4 Reports Builder ...

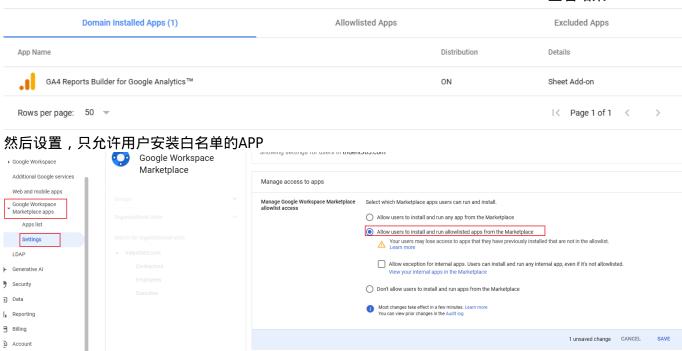
Google Analytics users can use this add-on to create and run reports for GA4 properties using Google Sheets™.

By: Google 🗷

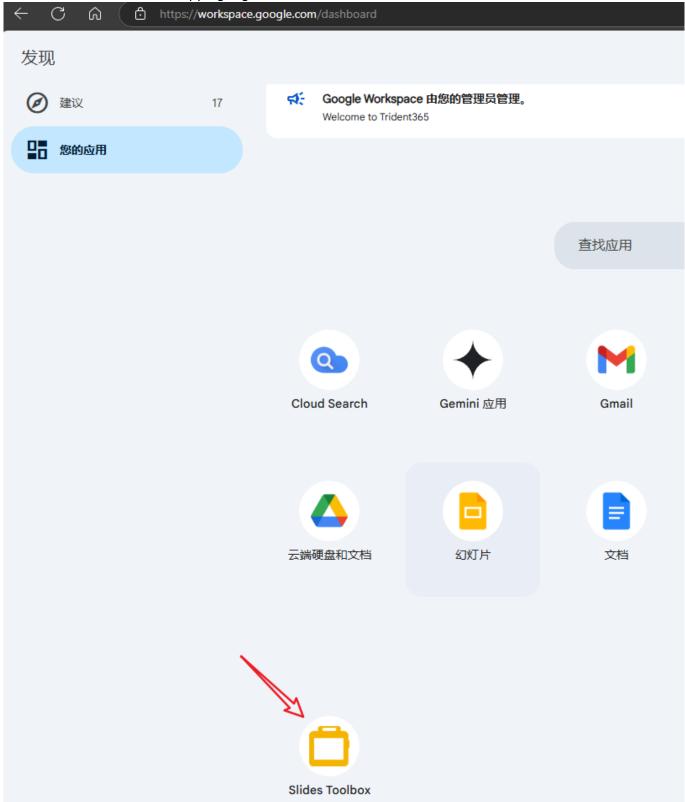
Listing updated: April 26, 2024



View and manage spreadsheets that this application has **=** (i) been installed in Display and run third-party web content in prompts and sidebars inside Google applications Allow this application to run when you are not present View and manage your Google Analytics data See and download your Google Analytics data See your primary Google Account email address See your personal info, including any personal info you've made publicly available Install the app automatically for the following users Everyone at your organization Certain groups or organizational units Select users in the next step I agree to the application's Terms of Service, Privacy Policy, and Google Workspace Marketplace's Terms of Service **FINISH** CANCEL 查看结果 Domain Installed Apps (1) Allowlisted Apps Excluded Apps



再添加白名单APP□练习中要求添加Google Apps Script,但我没找到,于是改为Slides Toolbox 换成某一个用户的账号登录,查看URL apps.google.com/user/hub,发现已经出现了



再打开Market□任意安装一个APP□会跳出提示



## Dialpad

One Beautiful Workspace for calling, messaging, meetings and contact center integrated with Google Workspace™

管理员安装 单独安装

开发者: <u>dialpad.com</u> <a>☑</a>

应用详情更新日期: 2024年8月1日



您的管理员不允许使用此应用。 了解详情 🖸

★★★☆ 159 ① 丛 59万+

### 测试3

What happens to already installed applications if you block API access from the Security > API Permissions section?

- 1. Already installed applications that use the blocked API will continue to work until the application needs a new OAuth token
- 2. Already installed applications will stop working and OAuth tokens will be revoked
- 3. Already installed applications that use the blocked API will continue to work indefinitely
- 4. Already installed applications that use the blocked API will continue to work until the user next signs in to Google Workspace

What is the expected behavior when a user tries to install a Marketplace app that has not been allowed?

- 1. Users can not attempt to install an application that is not on the allowlist because they only see allowed apps in the Marketplace
- 2. When the user attempts to install the app they will see a message advising that the app cannot be installed because it has not been allowed
- 3. Users can install an app that is not in the allowlist but they cannot grant it access to their data so it will not work
- 4. The app will appear to install, but it will not function correctly.

You have been asked to create a allowlist of Marketplace apps to restrict which apps a user can install onto their devices. What must you do first?

- Change the Marketplace settings to allow users to install only allowed applications from Google Workspace Marketplace
- 2. Complete a Domain install for each application that you want to allow
- 3. Get your users to Install the Marketplace allowlist app onto each device
- 4. Add the names of all the trusted applications to each user's device policy

Your organization wants to prevent any external application from accessing Gmail and Drive data. How would you ensure such access is prevented?

1. Disable API access from the Gmail and Drive service settings

- 2. From Security > Access and Data Control > API Controls, ensure Trust domain owned apps is enabled. From Security > Access and Data Control > API Controls > MANAGE GOOGLE SERVICES, restrict access to the Gmail and Drive services.
- 3. From Security > API Permissions, ensure Trust domain owned apps is disabled. From Security > API Permissions > MANAGE GOOGLE SERVICES, restrict access to the Gmail and Drive services.

4. Disable Gmail and Drive API access from the top level organization settings

From:

https://trident365.com/ - 三叉戟

Permanent link:

https://trident365.com/doku.php?id=resources:courses:gws\_c3&rev=1737621334



