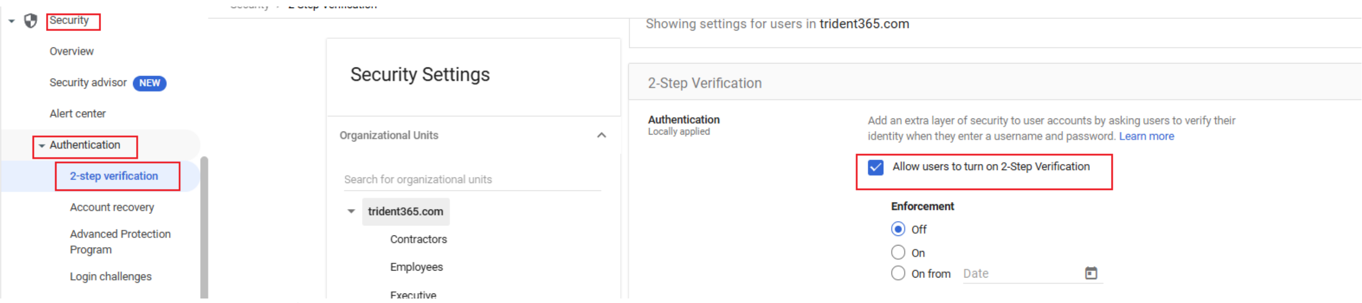
第3章 GWS安全

练习1

准备GWS域名，已经完成，略

配置通用安全设定



Showing settings for users in trident365.com

2-Step Verification

Authentication
Locally applied

Add an extra layer of security to user accounts by asking users to verify their identity when they enter a username and password. Learn more

☑ Allow users to turn on 2-Step Verification

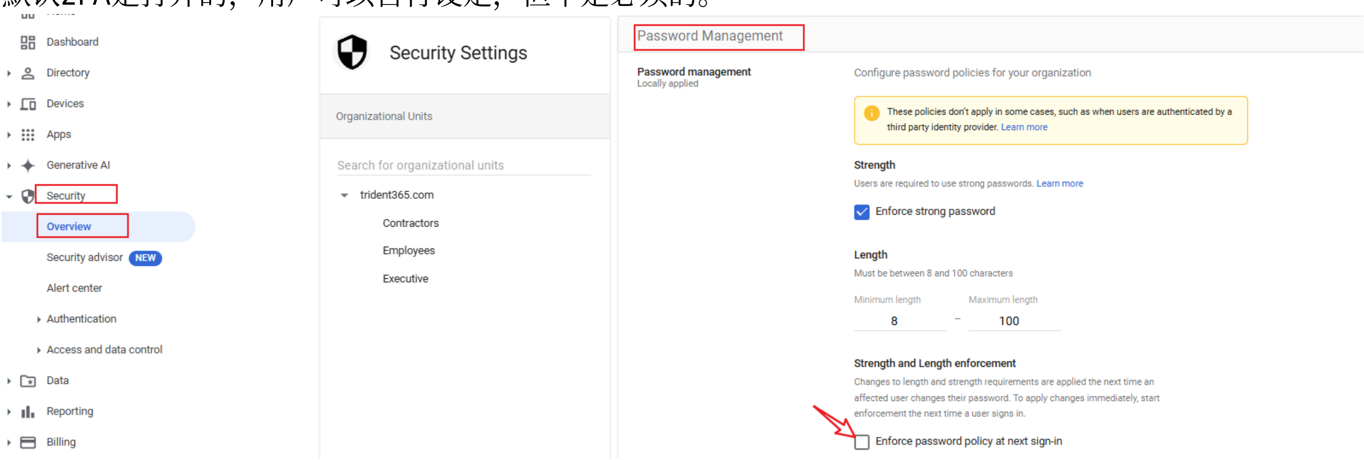
Enforcement

● Off

○ On

○ On from Date

默认2FA是打开的，用户可以自行设定，但不是必须的。



Password Management

Password management
Locally applied

Configure password policies for your organization

These policies don't apply in some cases, such as when users are authenticated by a third party identity provider. Learn more

Strength

Users are required to use strong passwords. Learn more

☑ Enforce strong password

Length

Must be between 8 and 100 characters

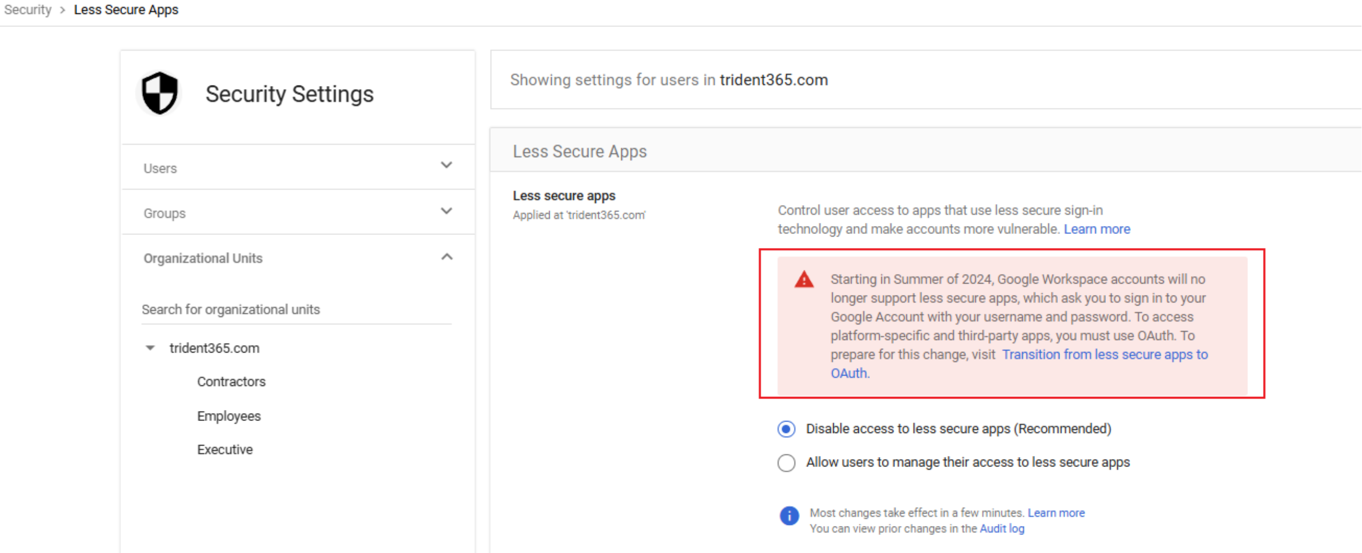
Minimum length 8 – Maximum length 100

Strength and Length enforcement

Changes to length and strength requirements are applied the next time an affected user changes their password. To apply changes immediately, start enforcement the next time a user signs in.

□ Enforce password policy at next sign-in

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

Less Secure Apps

Less secure apps
Applied at 'trident365.com'

Control user access to apps that use less secure sign-in technology and make accounts more vulnerable. Learn more

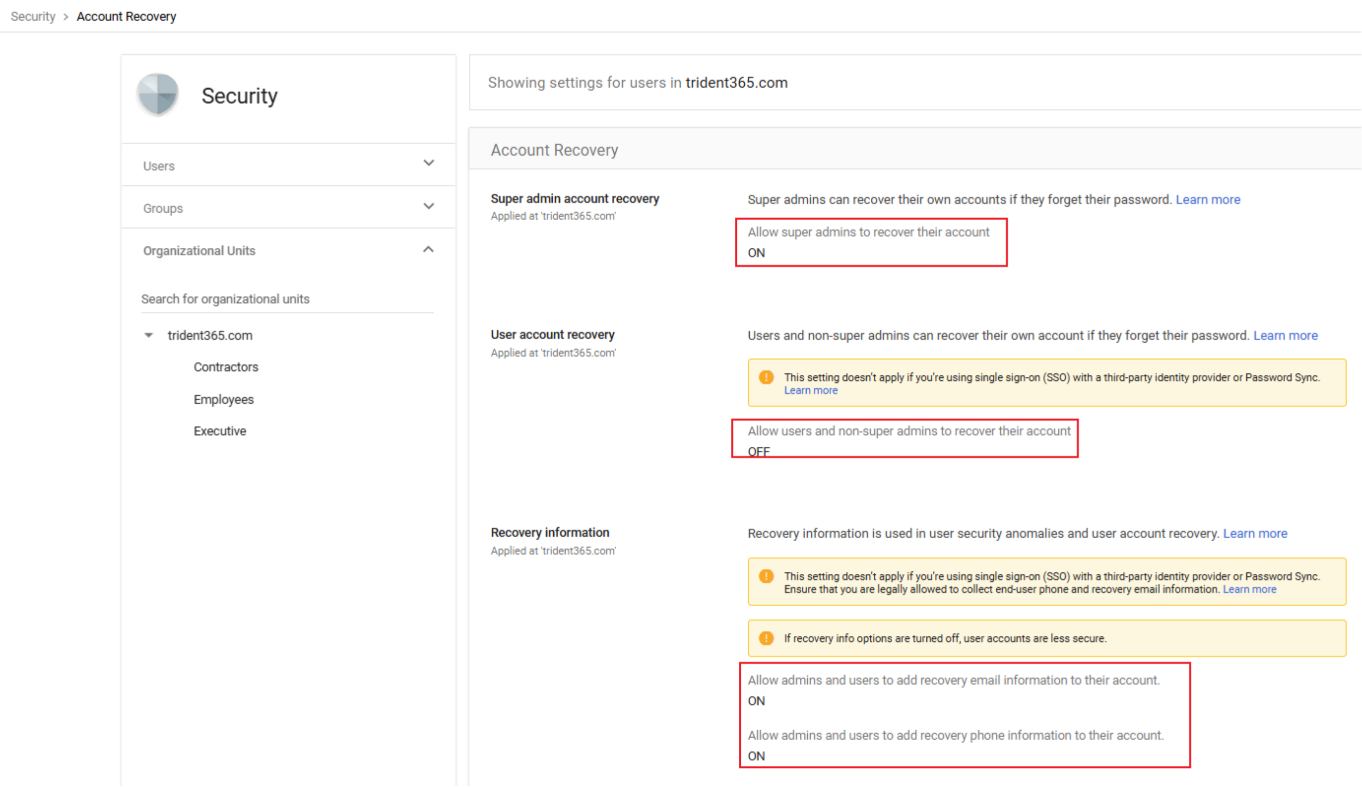
Starting in Summer of 2024, Google Workspace accounts will no longer support less secure apps, which ask you to sign in to your Google Account with your username and password. To access platform-specific and third-party apps, you must use OAuth. To prepare for this change, visit Transition from less secure apps to OAuth.

● 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
You can view prior changes in the Audit log

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 > Account Recovery

Security

Users

Groups

Organizational Units

Search for organizational units

trident365.com
- Contractors
- Employees
- Executive

Showing settings for users in trident365.com

Account Recovery

Super admin account recovery
Applied at 'trident365.com'

Super admins can recover their own accounts if they forget their password. Learn more

Allow super admins to recover their account
ON

User account recovery
Applied at 'trident365.com'

Users and non-super admins can recover their own account if they forget their password. Learn more

This setting doesn't apply if you're using single sign-on (SSO) with a third-party identity provider or Password Sync. Learn more

Allow users and non-super admins to recover their account
OFF

Recovery information
Applied at 'trident365.com'

Recovery information is used in user security anomalies and user account recovery. Learn more

This setting doesn't apply if you're using single sign-on (SSO) with a third-party identity provider or Password Sync. Ensure that you are legally allowed to collect end-user phone and recovery email information. Learn more

If recovery info options are turned off, user accounts are less secure.

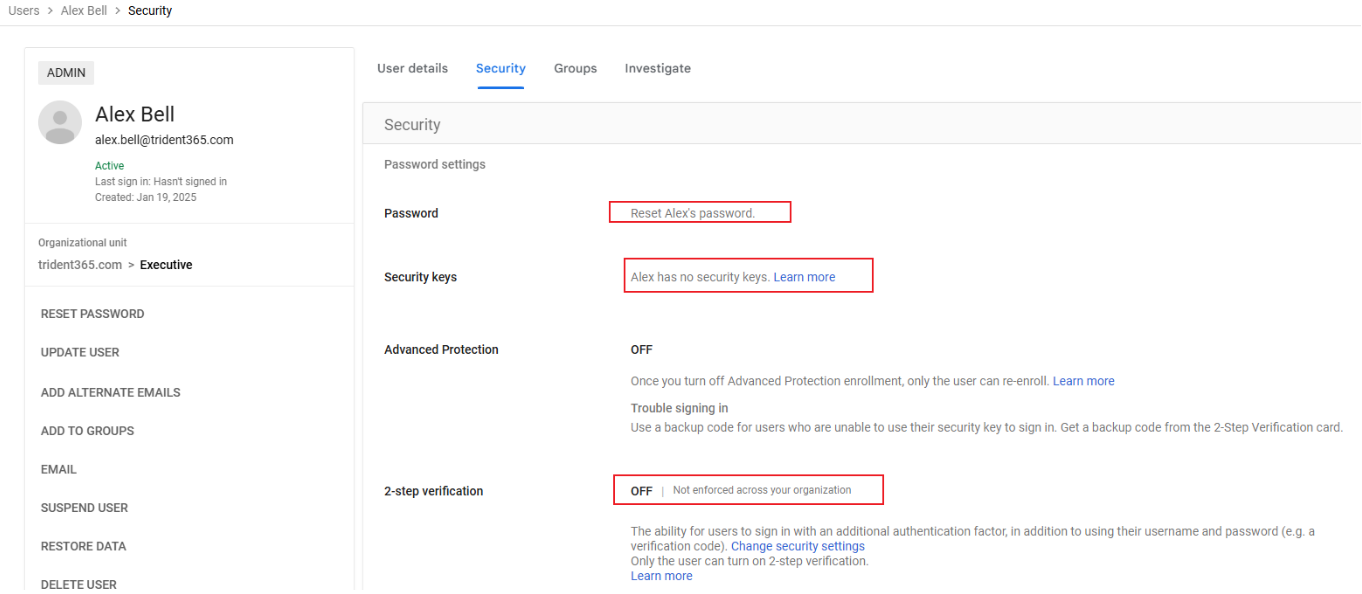
Allow admins and users to add recovery email information to their account.
ON

Allow admins and users to add recovery phone information to their account.
ON

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



Users > Alex Bell > Security

ADMIN

Alex Bell
alex.bell@trident365.com
Active
Last sign in: Hasn't signed in
Created: Jan 19, 2025

Organizational unit
trident365.com > Executive

RESET PASSWORD
UPDATE USER
ADD ALTERNATE EMAILS
ADD TO GROUPS
EMAIL
SUSPEND USER
RESTORE DATA
DELETE USER

User details | Security | Groups | Investigate

Security

Password settings

Password
Reset Alex's password.

Security keys
Alex has no security keys. Learn more

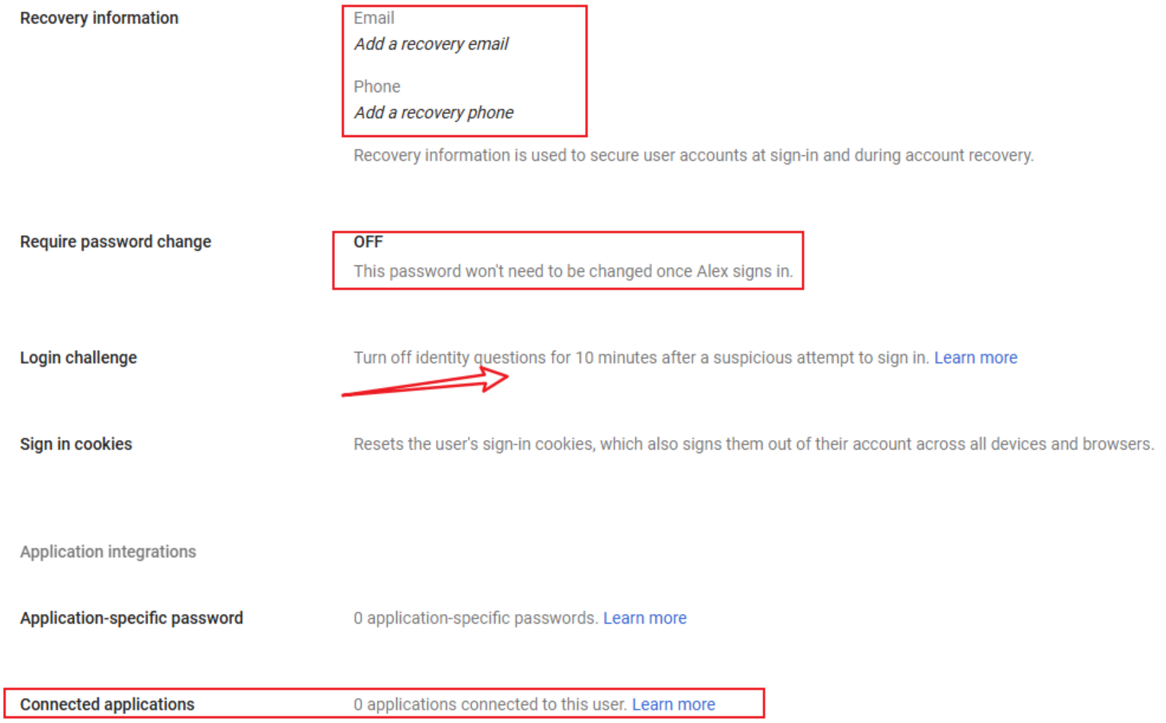
Advanced Protection
OFF

Once you turn off Advanced Protection enrollment, only the user can re-enroll. Learn more

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.

2-step verification
OFF | Not enforced across your organization

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.
Learn more



Recovery information

Email
Add a recovery email

Phone
Add a recovery phone

Recovery information is used to secure user accounts at sign-in and during account recovery.

Require password change

OFF
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

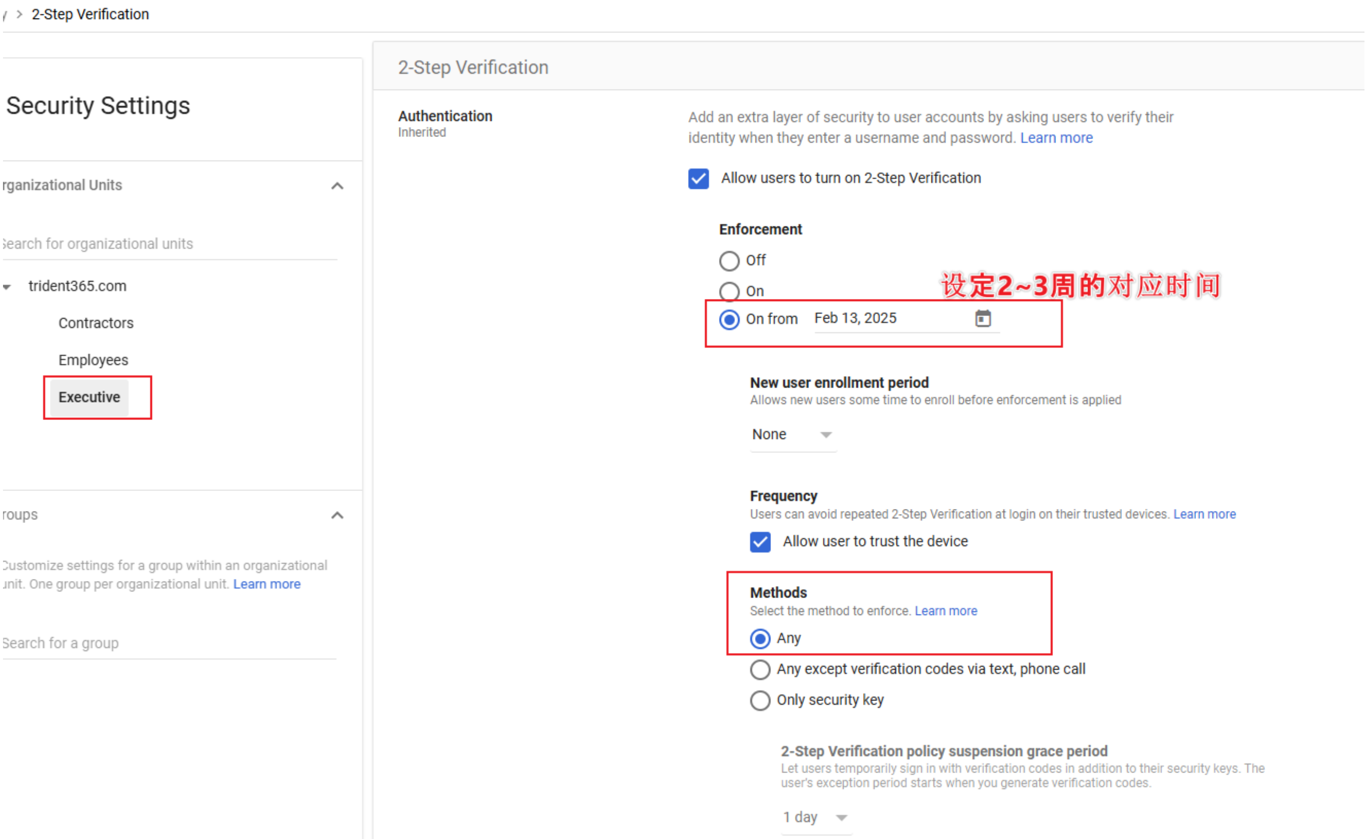
Connected applications

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



/ > 2-Step Verification

Security Settings

rganizational Units

earch for organizational units

- trident365.com
  - Contractors
  - Employees
  - Executive

roups

Customize settings for a group within an organizational unit. One group per organizational unit. Learn more

Search for a group

2-Step Verification

Authentication
Inherited

Add an extra layer of security to user accounts by asking users to verify their identity when they enter a username and password. Learn more

☑ Allow users to turn on 2-Step Verification

Enforcement

○ Off

○ On

● On from Feb 13, 2025

设定2~3周的对应时间

New user enrollment period
Allows new users some time to enroll before enforcement is applied

None

Frequency
Users can avoid repeated 2-Step Verification at login on their trusted devices. Learn more

☑ Allow user to trust the device

Methods
Select the method to enforce. Learn more

● Any

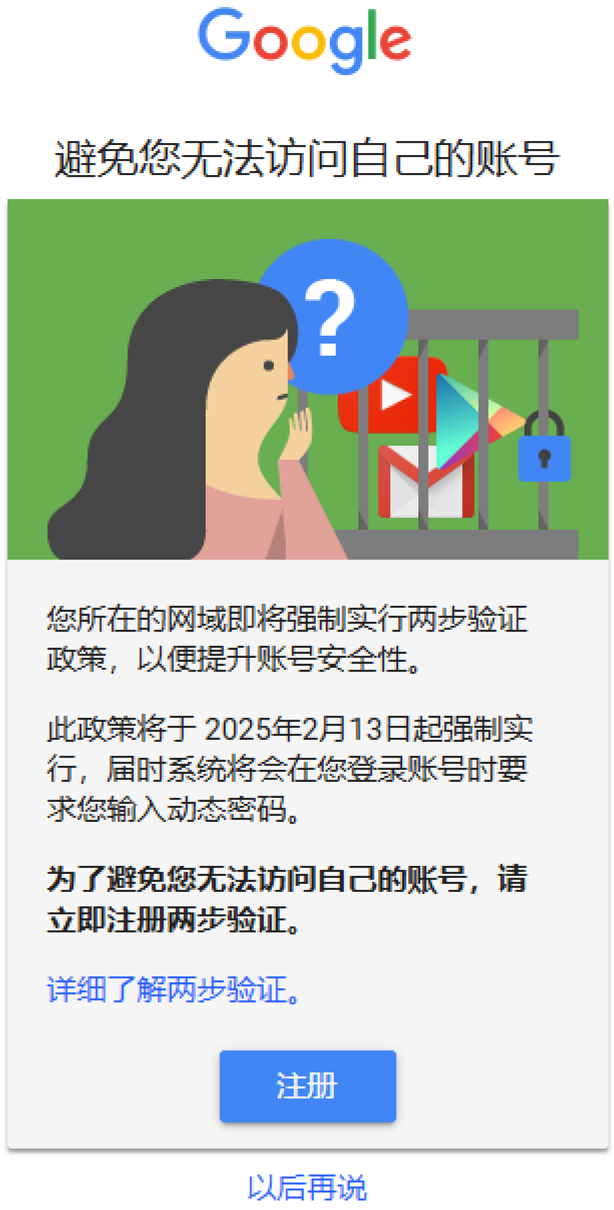
○ Any except verification codes via text, phone call

○ Only security key

2-Step Verification policy suspension grace period
Let users temporarily sign in with verification codes in addition to their security keys. The user's exception period starts when you generate verification codes.

1 day

然后找一个高管的邮箱，比如Alex登录后，会出现提示



Google

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

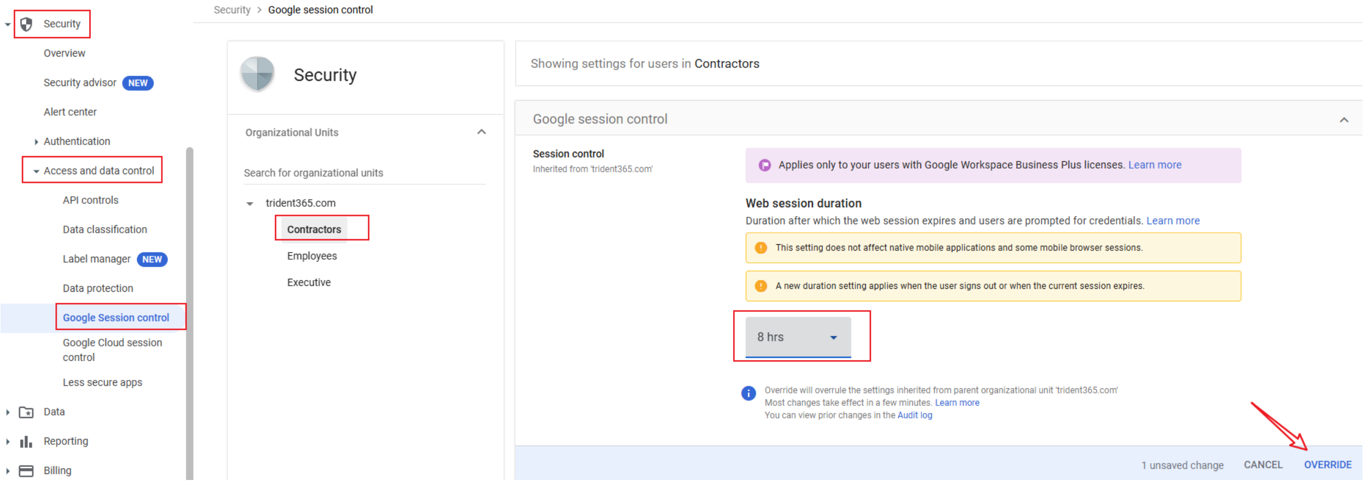
有4种方式

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。



Showing settings for users in Contractors

Session control
Inherited from 'trident365.com'

Applies only to your users with Google Workspace Business Plus licenses. Learn more

Web session duration
Duration after which the web session expires and users are prompted for credentials. Learn more

This setting does not affect native mobile applications and some mobile browser sessions.

A new duration setting applies when the user signs out or when the current session expires.

Override will overrule the settings inherited from parent organizational unit 'trident365.com'
Most changes take effect in a few minutes. Learn more
You can view prior changes in the Audit log

1 unsaved change

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**
2. 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)

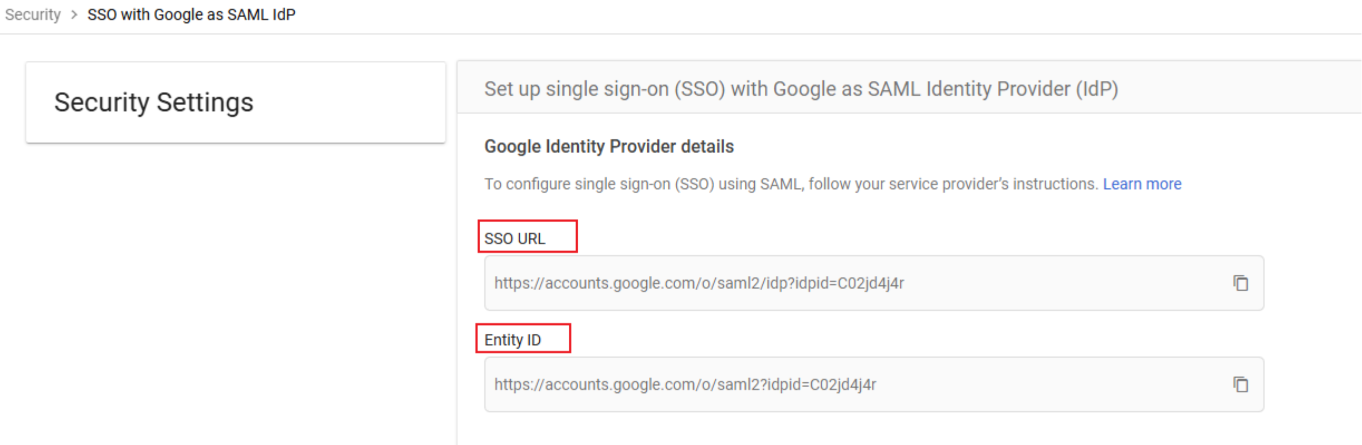
1. Review a user's administrative access
2. **Require a password change**
3. **Temporarily disable the user's login challenge for 10 minutes**
4. **Determine if the user is enrolled in 2-step verification**

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.
3. **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



Set up single sign-on (SSO) with Google as SAML Identity Provider (IdP)

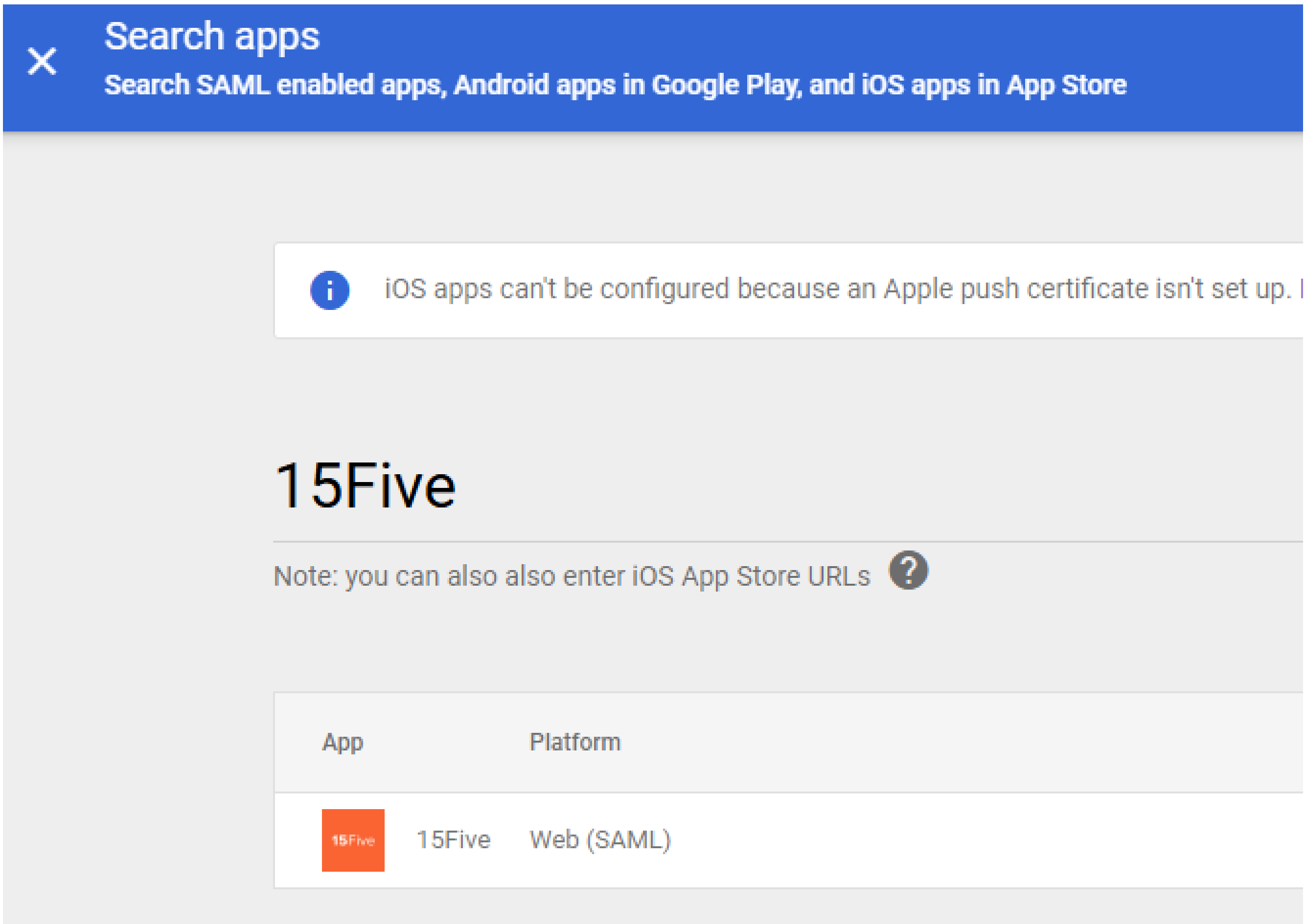
Google Identity Provider details

To configure single sign-on (SSO) using SAML, follow your service provider's instructions. Learn more

SSO URL
https://accounts.google.com/o/saml2/idp?idpid=C02jd4j4r

Entity ID
https://accounts.google.com/o/saml2?idpid=C02jd4j4r

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



×
Search apps
Search SAML enabled apps, Android apps in Google Play, and iOS apps in App Store

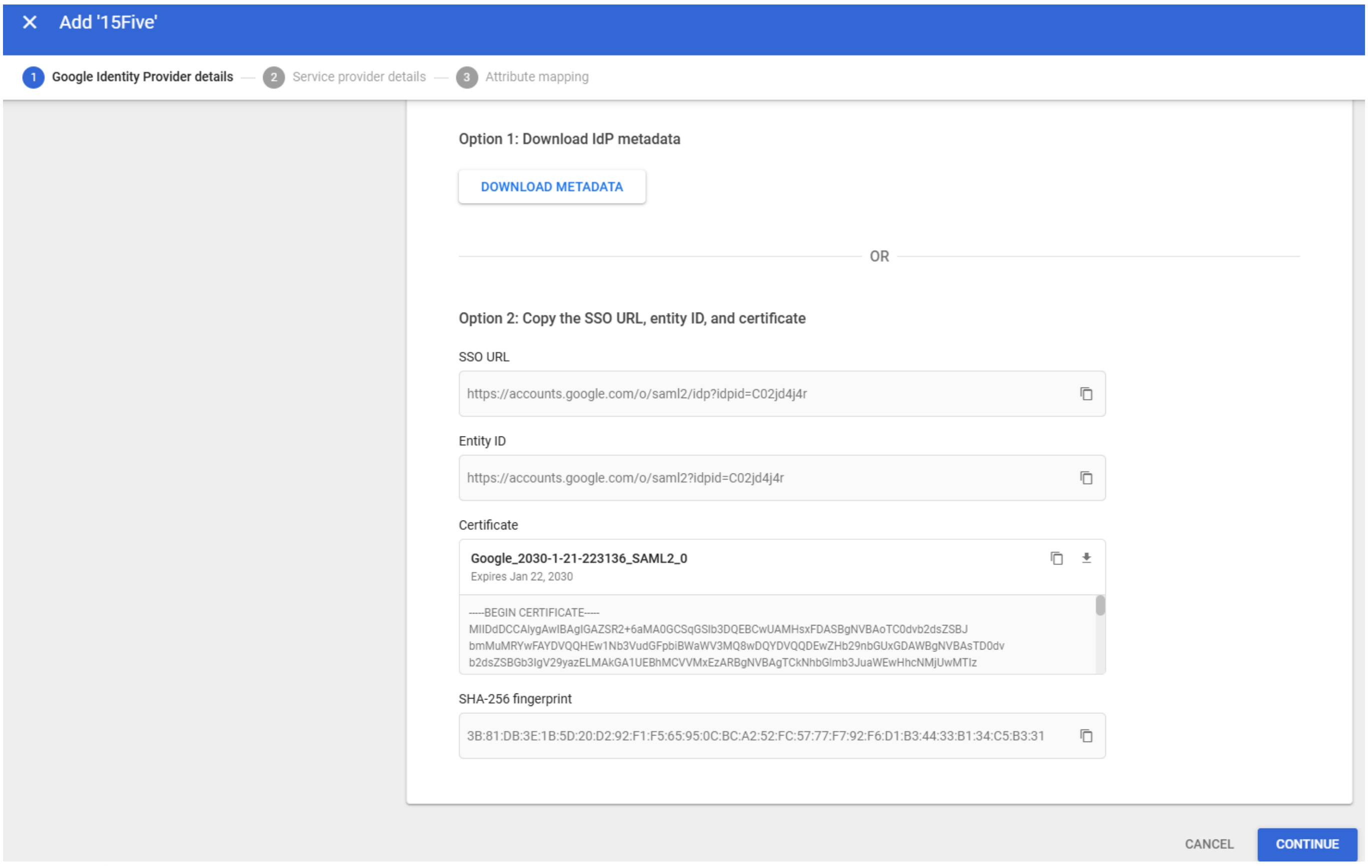
iOS apps can't be configured because an Apple push certificate isn't set up. I

15Five

Note: you can also also enter iOS App Store URLs ?

App	Platform
15Five	Web (SAML)

下载Metadata



× Add '15Five'
1 Google Identity Provider details — 2 Service provider details — 3 Attribute mapping

Option 1: Download IdP metadata

Option 2: Copy the SSO URL, entity ID, and certificate

SSO URL

https://accounts.google.com/o/saml2/idp?idpid=C02jd4j4r

Entity ID

https://accounts.google.com/o/saml2?idpid=C02jd4j4r

Certificate

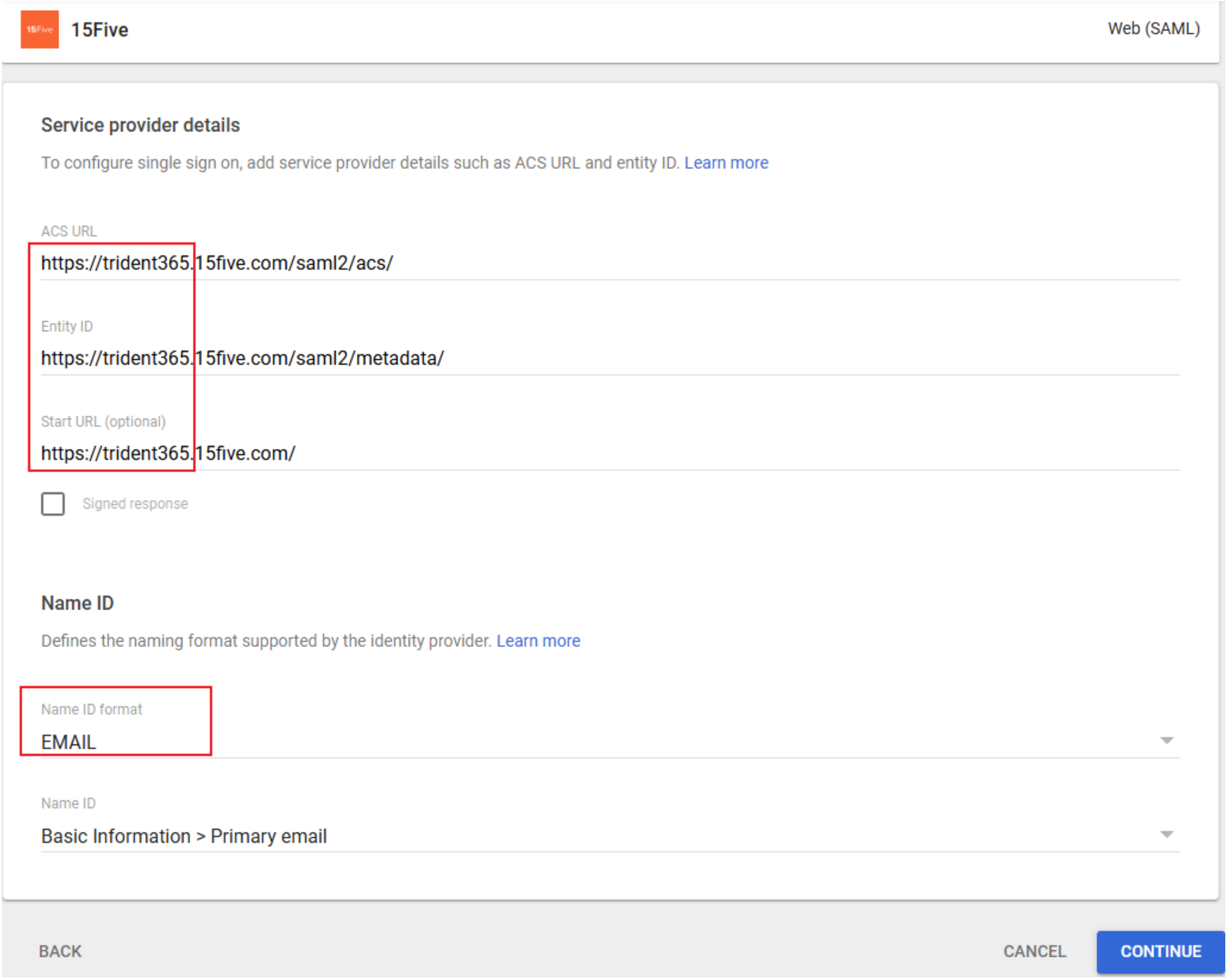
Google_2030-1-21-223136_SAML2_0
Expires Jan 22, 2030

```
-----BEGIN CERTIFICATE-----
MIIDdDCCAlygAwIBAgIGAZSR2+6aMA0GCSqGSIb3DQEBCwUAMHsxFDASBgNVBAoTC0dvb2dsZSBJ
bmMuMRYwFAYDVQQHEw1Nb3VudGFpbiBWaWV3MQ8wDQYDVQQDEwZHb29nbGUxGDAWBgNVBAsTD0dv
b2dsZSBGb3IgV29yazELMAkGA1UEBhMCVVMxEzARBgNVBAgTCkNhbGlmb3JuaWEwHhcNMjUwMTIz
```

SHA-256 fingerprint

3B:81:DB:3E:1B:5D:20:D2:92:F1:F5:65:95:0C:BC:A2:52:FC:57:77:F7:92:F6:D1:B3:44:33:B1:34:C5:B3:31

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



Service provider details

To configure single sign on, add service provider details such as ACS URL and entity ID. Learn more

ACS URL: https://trident365.15five.com/saml2/acs/

Entity ID: https://trident365.15five.com/saml2/metadata/

Start URL (optional): https://trident365.15five.com/

□ Signed response

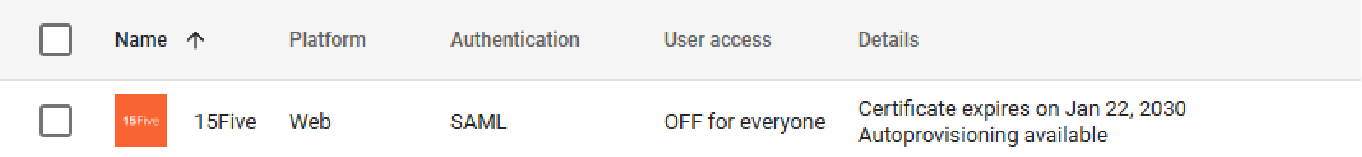
Name ID

Defines the naming format supported by the identity provider. Learn more

Name ID format: EMAIL

Name ID: Basic Information > Primary email

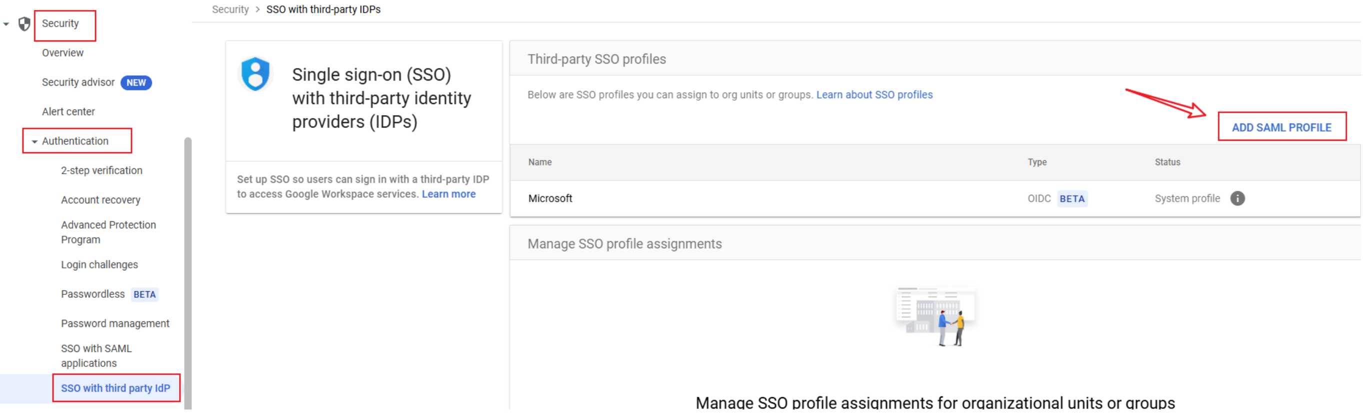
把域名补全，然后ID格式选择Email□继续



□	Name ↑	Platform	Authentication	User access	Details
□	15Five	Web	SAML	OFF for everyone	Certificate expires on Jan 22, 2030 Autoprovisioning available

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



Single sign-on (SSO) with third-party identity providers (IDPs)

Set up SSO so users can sign in with a third-party IDP to access Google Workspace services. Learn more

Third-party SSO profiles

Below are SSO profiles you can assign to org units or groups. Learn about SSO profiles

Name	Type	Status
Microsoft	OIDC BETA	System profile

Manage SSO profile assignments

Manage SSO profile assignments for organizational units or groups

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。