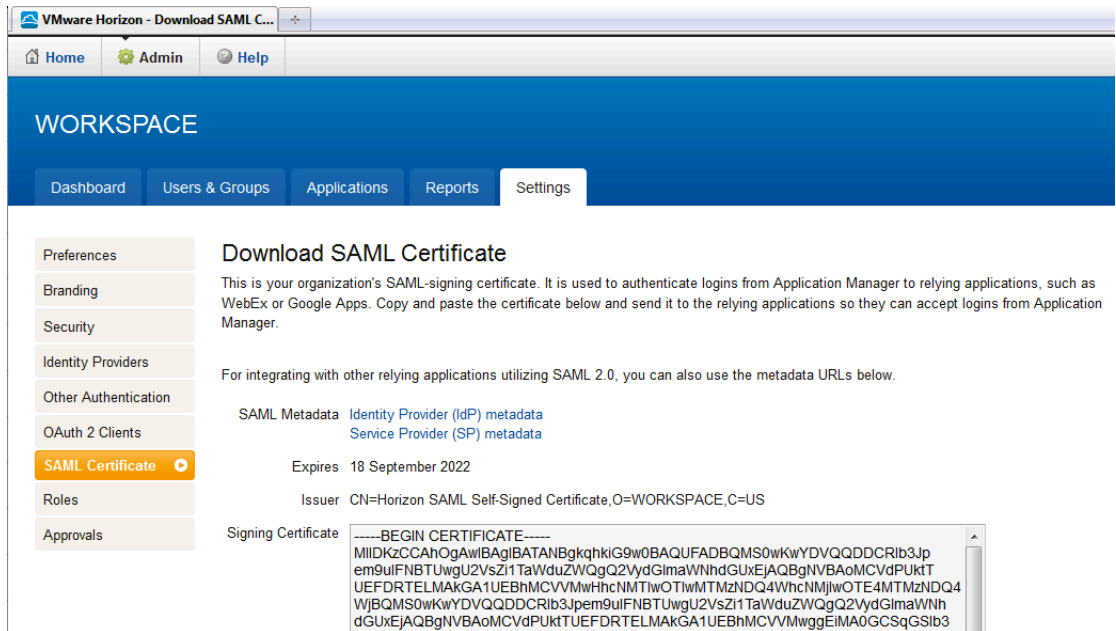# How to add Google Apps for SSO and user provisioning in Horizon Application Manager

This is a step-by-step guide how to add Google Apps to your Horizon Application Manager 1.5 implementation. Horizon supports Single Sign-On, entitlement and provisioning of Google Apps users. Provisioning means you do not have to manually create your users in Google Apps. When a user is entitled to Google Apps, Horizon automatically creates the user on the Google Apps side. With the help of Horizon Application Manager's reporting features you can keep track of your current usage of Google Apps.

1. Start exporting your Horizon SAML certificate into a text file. Later the certificate will be uploaded to Google Apps to establish a trust relationship.


Copy the content in the Signing Certificate box and store it in a text file on your client.

2. Next you must register for a Google Apps for Business account if you do not already have one. If you are working with an existing Google Apps for Business account please note that all your users must login via Horizon when you activate SAML authentication.
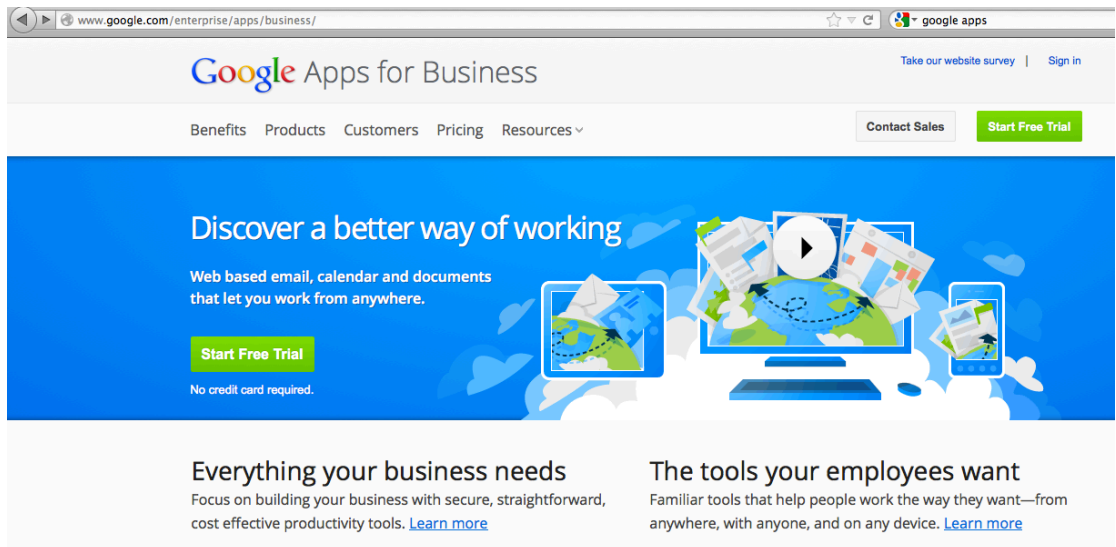
You register for a trial account at:
http://www.google.com/enterprise/apps/business/

3. Once you've registered for a trial make sure you verify your domain. In my example I'm using myhorizondemo.com as the domain and PINATA as my organization. You must of course use your own org. and domain name.
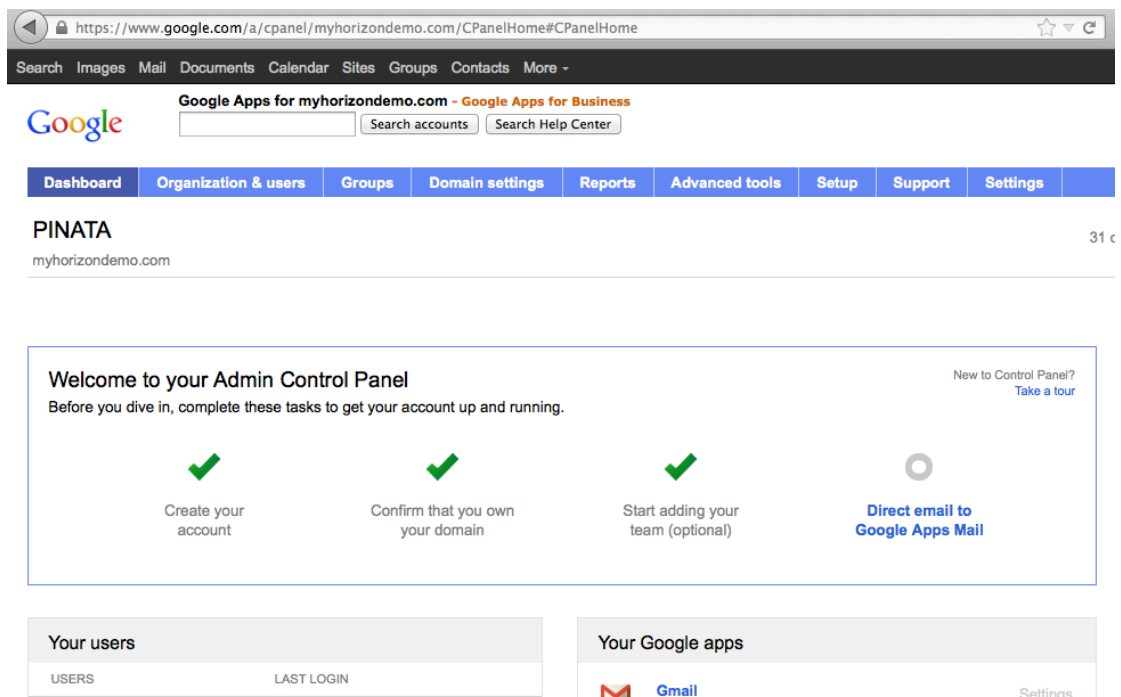
Verify you have confirmed your domain.

4. Now it's time to activate provisioning and SAML authentication for your Google Apps organization.

In Domain settings – User settings enable "Enable provisioning API" and click on "Set up single sign-on (SSO)"

5. Fill in your Horizon installation data:

    Sign-in page URL: http://FQDN_to_service-va/SAAS/API/1.0/POST/sso

    Sign-out page URL: http://FQDN_to_service-va /SAAS/

    Change password URL: http://FQDN_to_service-va /SAAS/

    Verification certificate: Upload your SAML certificate from step 1.

    Use a domain specific issuer: Enable

Make sure to click Save changes. Go back and verify your changes have been successfully saved. I've noticed you sometimes have to fill in your settings multiple times for it to be saved.

6. That's all you need to do on the Google Apps side of things. Now go back to your Horizon Application Manager admin and add Google Apps as an application.

Add Google Apps to your application catalog.

7. Configure Google Apps

Click on Google Apps to edit the application.

Under APPLICATION PARAMETERS click EDIT.

Specify your domain (in my case it's myhorizondemo.com), click Save

Your domain should now be listed under APPLICATION PARAMETERS. Click EDIT under PROVISIONING.

Specify your Google Apps administrator. Verify functionality by clicking TEST CONNECTION. Once verified click Save.

Click on MAPPED VALUES and specify mappings and click Save.

Entitle users to Google Apps. Click on "Ready to provision" to see the status of the provisioning process. When users are provisioned the status will change to "Provisioned".

8. Verify your Google Apps connection.

Login to your Horizon Workspace as one of the Google Apps entitled users. Click on the Google Apps icon.
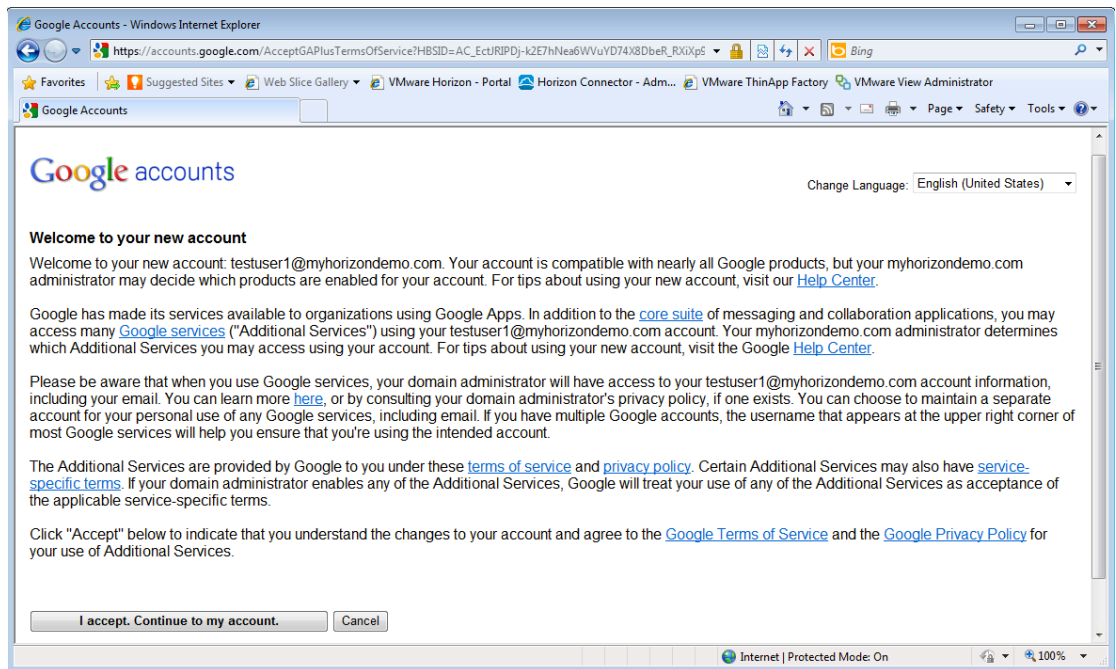
If successful you'll see the "Welcome to your new account message". Click "I accept. Continue to my account".
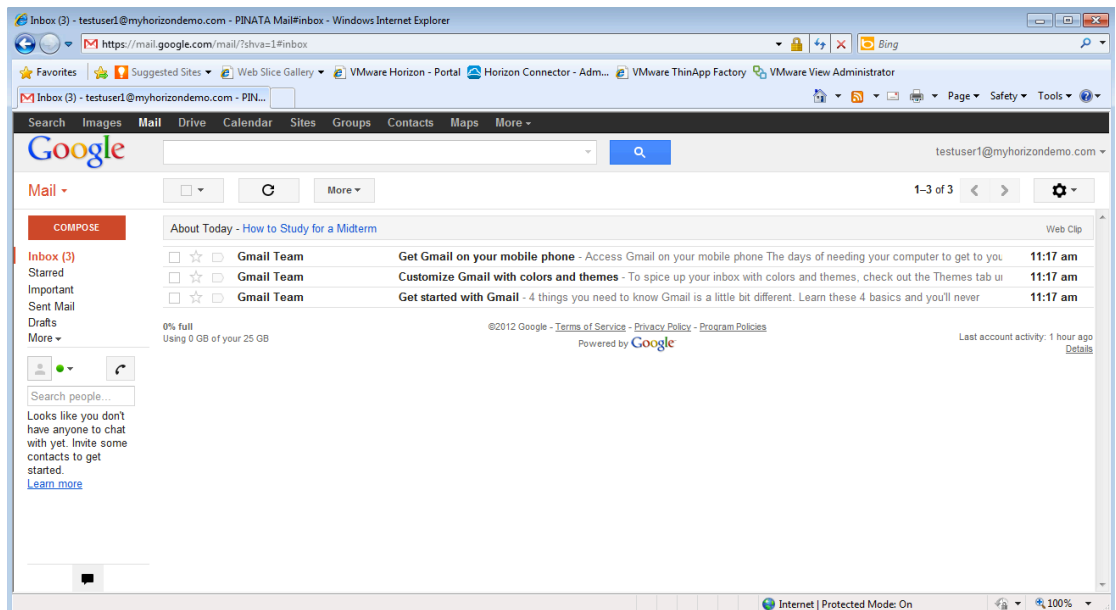
The user should now be logged in to Google Apps.

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