

AzureAD: Setup SSO to G-Suite for free, and govern access! (Google Apps)

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₱1 (https://blogs.technet.microsoft.com/skypehybridguy/2019/02/25/azuread-setup-sso-to-g-suite-for-free-and-govern-access-google-apps/#comments)

Did you know Azure Active Directory can provide Single

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Sign-On (SSO) to G-Suite (Google Apps)? In this blog, we

will explore how to set this up from both the Azure AD side and also the G-Suite side.

Once SSO is configured, consider creating policies for Conditional Access (https://docs.microsoft.com/en-us/azure/active-directory/conditional-access/overview) to govern how G-Suite is accessed (e.g. only from a managed device, specific network, monitor for threats of the credentials such as for sale on the dark web, etc). For more information on G-Suite and Azure AD integration for SSO, see Tutorial: Azure Active Directory integration with G Suite (https://docs.microsoft.com/en-us/azure/active-directory/saas-apps/google-apps-tutorial)

Note: SSO for up to 10 apps comes with the free version of AzureAD. For additional capability, P1 or P2 may be required. See Azure Active Directory pricing (https://azure.microsoft.com/en-us/pricing/details/active-directory/) for more information.

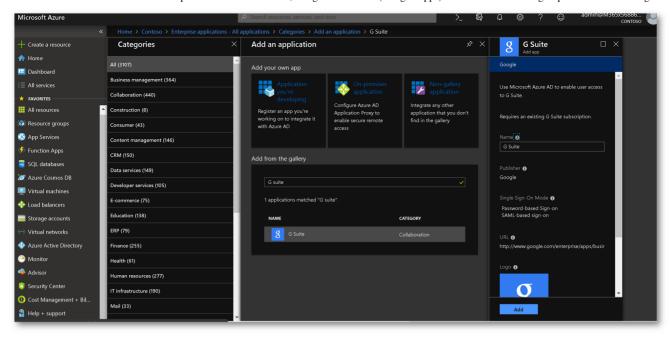
Important: Chromebooks can sign-in with Azure AD credentials, see this video (https://youtu.be/qtVtTCr1Qcs)! (and here (https://support.google.com/chrome/a/answer/6060880) for more information)

Also Important: Once SSO is enabled in G-Suite only Azure AD credentials will be authorized and all legacy credentials (i.e. G-Suite credentials) will not be authorized for signin. If the user is using a Windows 10 device that is AADJ, then they will not need to type in their password to access G-Suite, SSO from Win 10 will automatically be available.

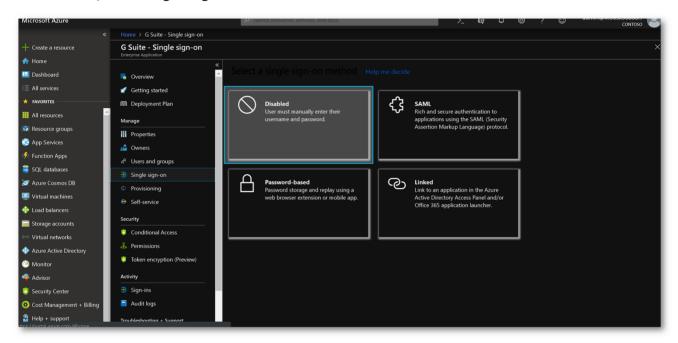
Let's begin!

Add G-Suite to Azure AD and configure it:

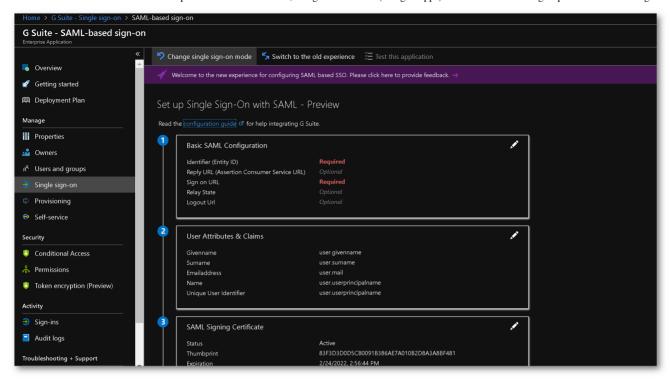
From within the Azure portal navigate to Azure Active Directory -> Enterprise Applications -> New Application and search for G Suite then click **Add:**



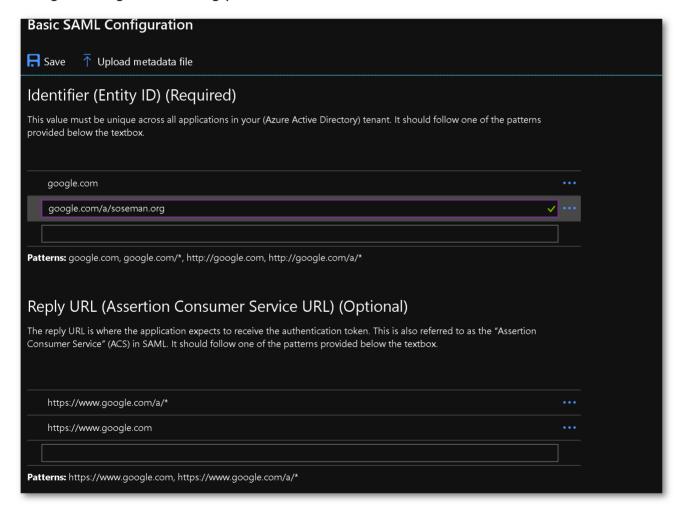
Once added, click Single Sign-on and click SAML

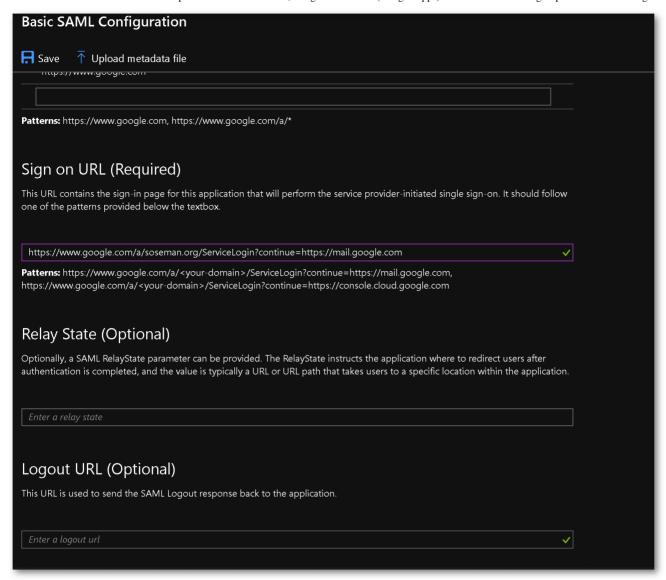


Edit the Basic SAML Configuration by clicking the pencil icon:



Configure using the following parameters:

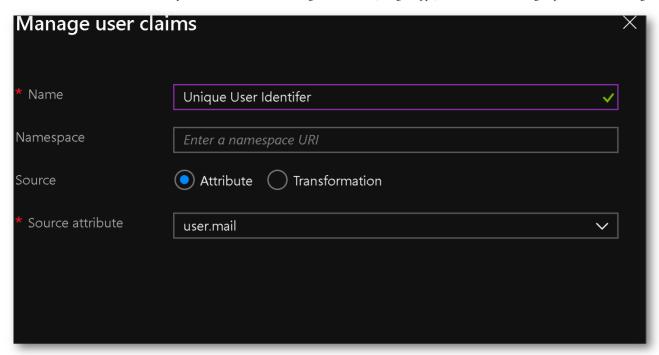




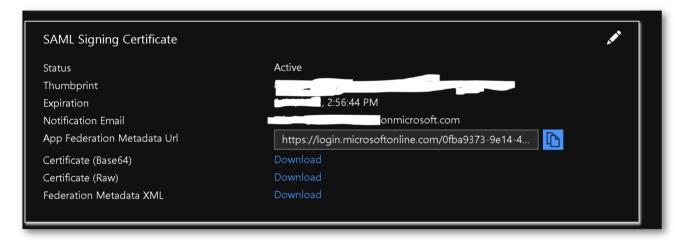
Click Save. For User Attributes & Claims click the pencil icon:



Add a new claim:



Go back to the main SAML SSO configuration page, and download the base64 certificate for **SAML Signing Certificate:**



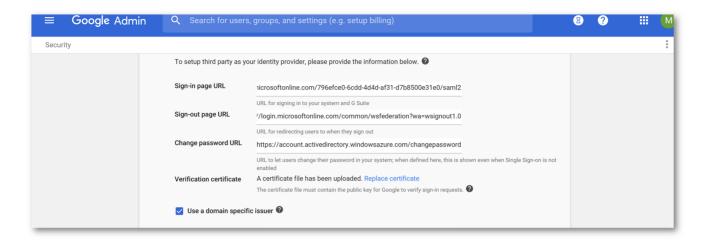
Copy the following URLs to a scratch pad, we'll use these to configure G-Suite:



Setup G-Suite for SSO:

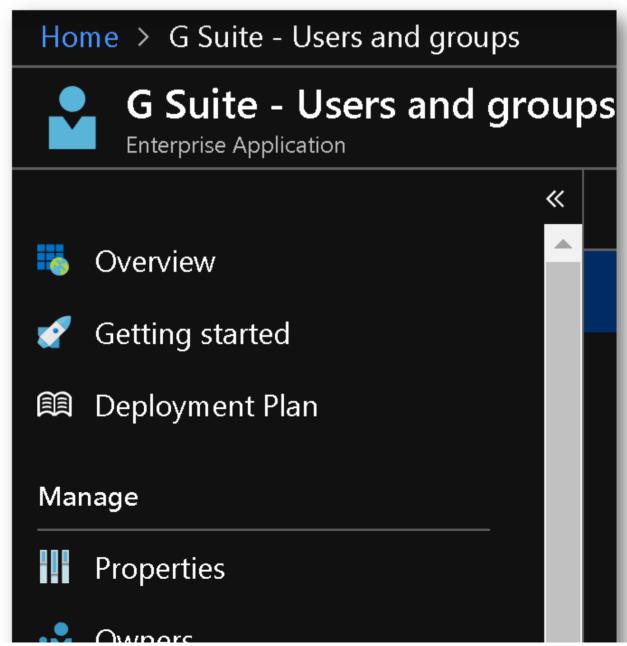
See this article (https://support.google.com/a/answer/6087519?hl=en) for more information on configuring G-Suite for SSO. From within G-Suite navigate to Admin -> Security -> Setup SSO. Paste the URLs you copied in the last step, into the SSO configuration, upload the

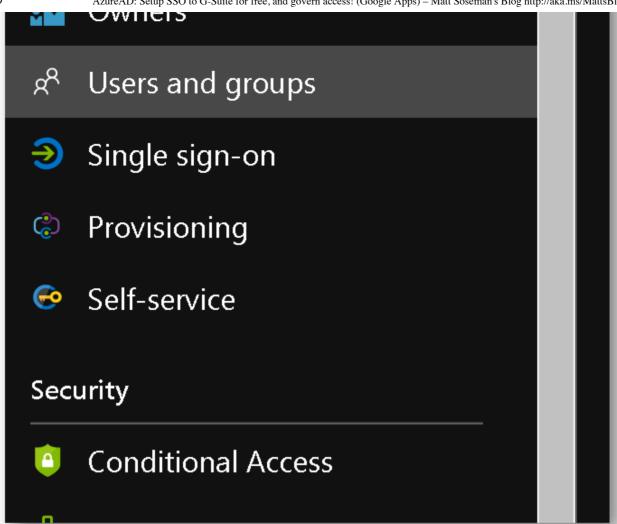
certificate you downloaded previously, check the box for **use a domain specific issuer** and then click **Save:**



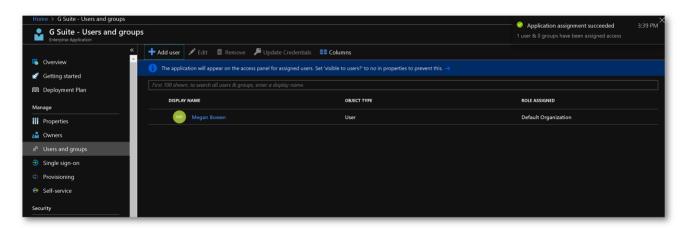
Assign the user to G Suite

Back in the Azure portal, click Users & Groups from within the G-Suite Enterprise Application:



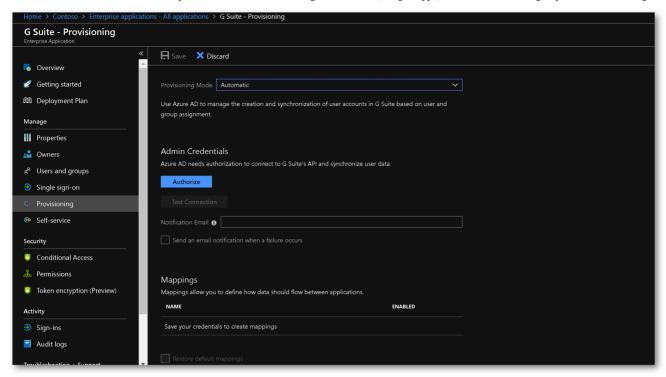


Add a new user to G-Suite:

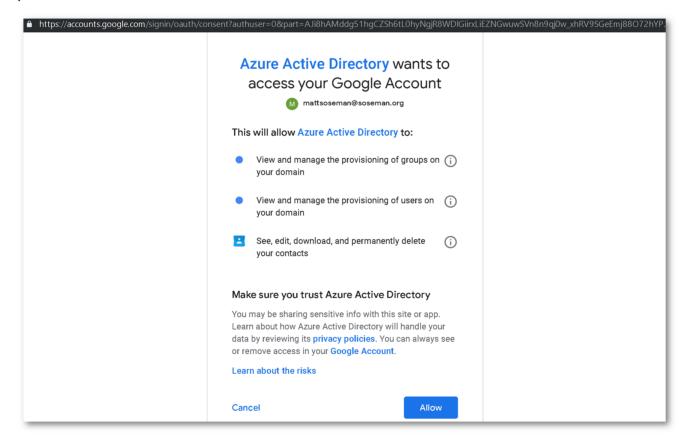


Turn on Provisioning:

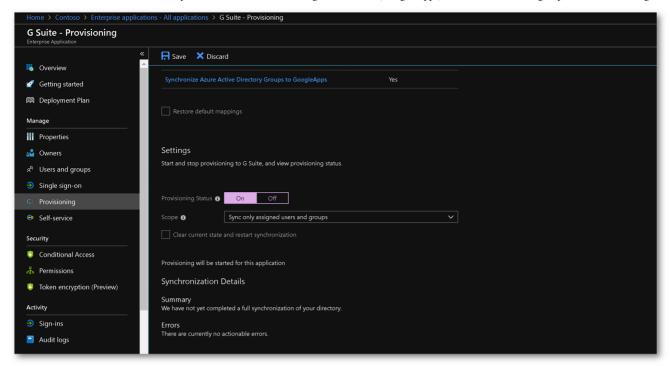
Click on **Provisioning** and go through the steps on the blade. Starting with changing *Provisioning Mode* to Automatic.



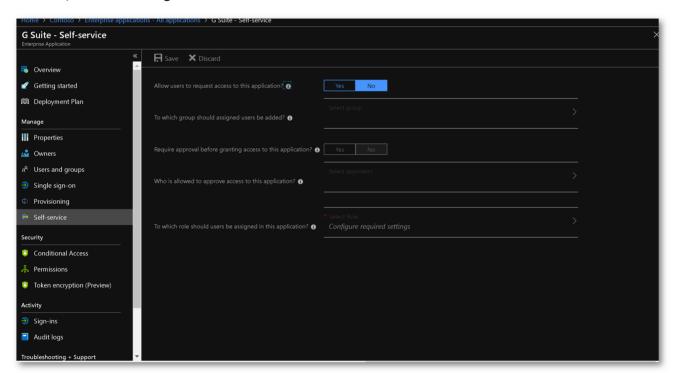
Then click **Authorize** and type in your G-Suite credentials to go through the authorization process. Grant consent:



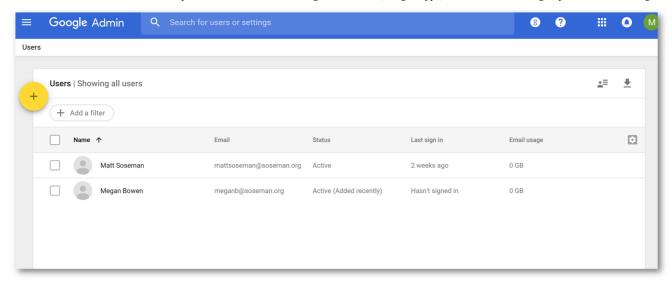
Back in the Azure portal, click **Save** to save your provisioning configuration. Once saved, you can opt to enable automatic synchronization of identities from Azure AD to G-Suite by clicking **On** for *Provisioning Status:*



Side bar, I could configure self service for end-users!



Back in G-Suite, you will notice the assigned users will start to sync:

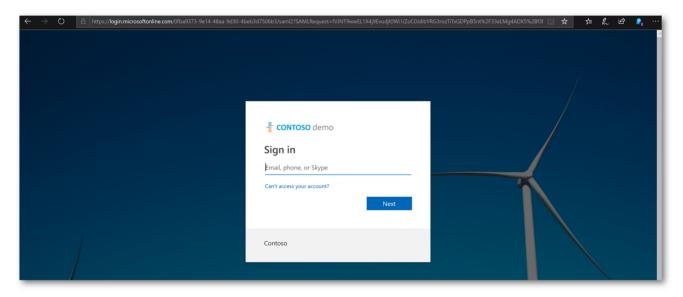


Time to test!

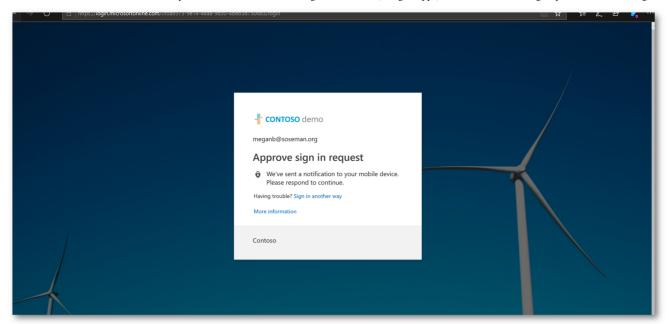
I'm going to navigate to http://mail.google.com/a/soseman.org (http://mail.google.com/a/soseman.org):



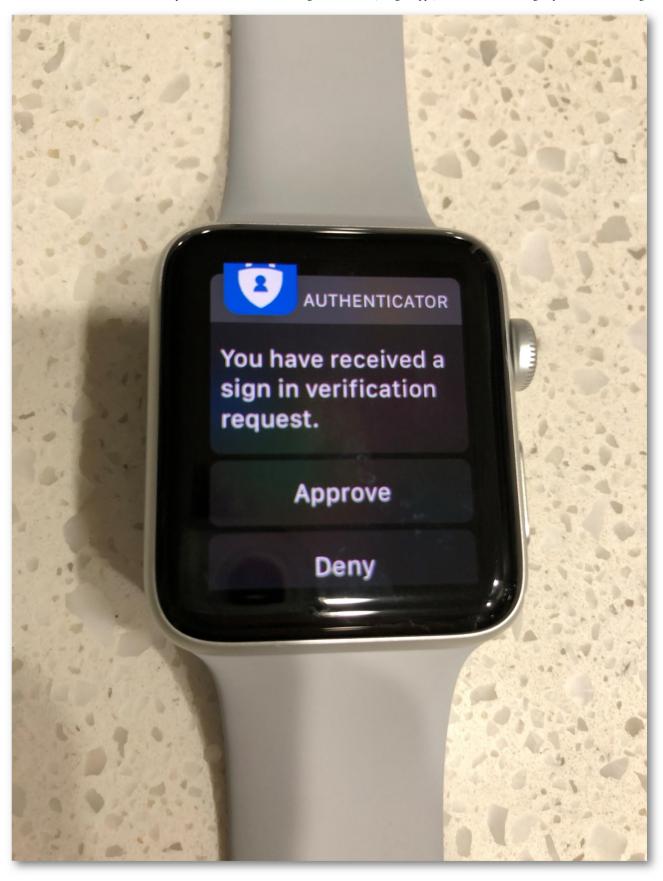
Notice this will redirect to Azure Active Directory:



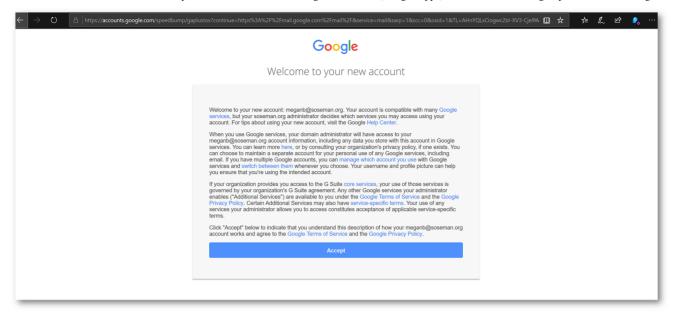
Notice it challenges me for multi-factor authentication!



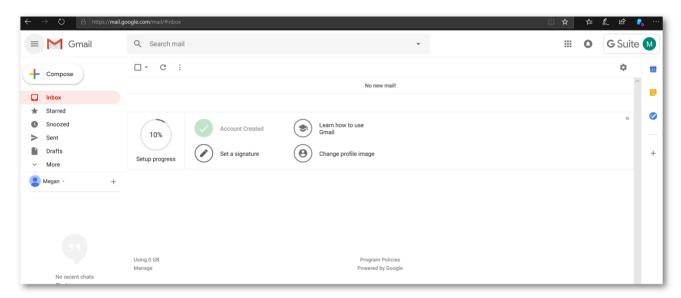
And I respond to the challenge using my Apple Watch ${\color{orange} { \bullet }}$



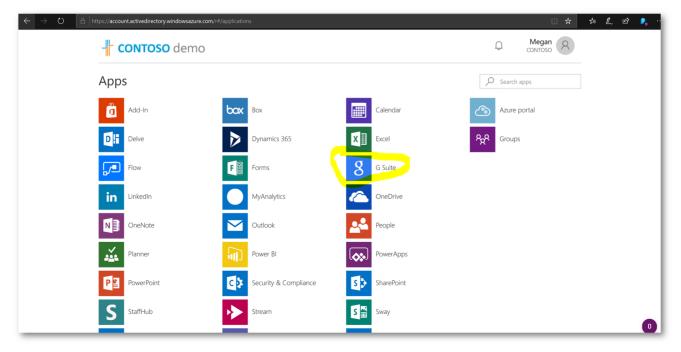
Once authenticated, accept the terms and conditions:



Now, I'm logged in and ready to use G-Suite!



Browsing to myapps.microsoft.com – G-Suite is added to the launcher!



Conclusion:

As you can see, configuring Single Sign On for G-Suite using Azure Active Directory is a rather easy and simple process – and probably can be completed within 15 minutes or less. Once configured, don't forget using Azure AD Conditional Access to govern how G-Suite is accessed, such as requiring a managed device (mobile or PC), monitoring the credentials for being compromised (impossible travel, up for sale on dark web, coming from atypical locations, etc), requiring MFA, and more!

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