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ISE Chromebook onboarding

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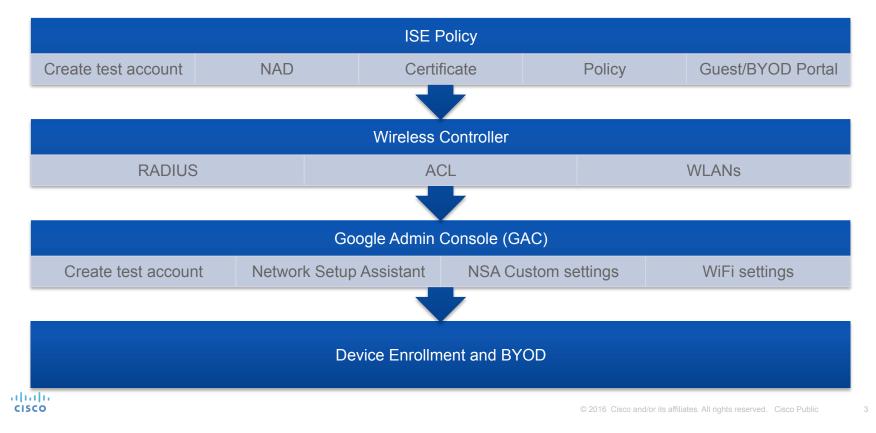
How to configure ISE, WLC, and Google Admin Console (GAC)

Policy & Access Team Hosuk Won, TME September 2nd, 2016

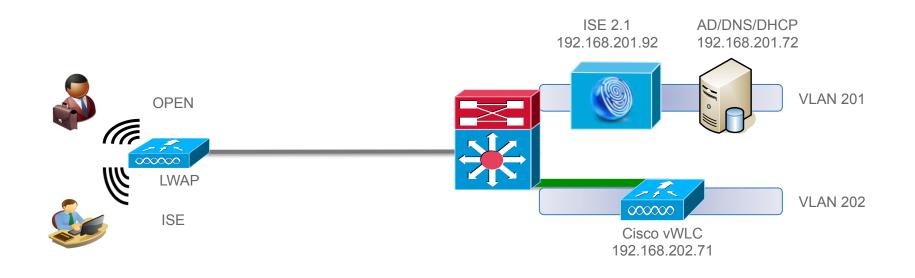
Note about Chromebook onboarding

- Not a TRUE BYOD as the device needs to be enrolled and managed by Google Admin Console (GAC) prior to being onboarded
- Chromebook (CB) has notion of system vs. user settings
- Google allows the certificate to be available system-wide for all users, but the EAP-TLS WiFi setting needs to be user specific
- Currently require the user to have account from google managed domain as well as account from ISE supported Identity DB
- For K-12 use case, an admin can provision the CB and once provisioned, subsequent student user does not need to have account from ISE supported Identity DB
- Supports Chrome OS 37 and above

Configuration Flow



Lab Setup



ISE Configuration

Wireless Controller

DNS-Based ACL

- Chromebook requires access to various google related sites for enrollment. DNS-Based ACL is recommended to allow access to the google sites
- WLC 8.2+ supports 20 DNS-Based ACE per ACL, previous version supports up to 10 DNS-Based ACE
- Following list can be used to onboard both Chromebooks and Android devices

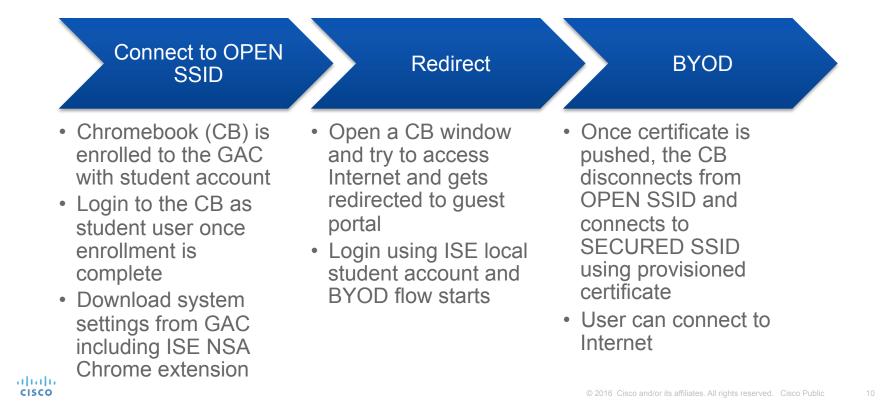
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Google Admin Console

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Device Enrollment and BYOD

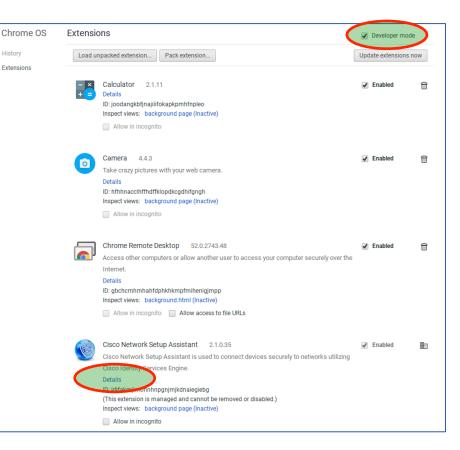
Device Enrollment and BYOD



Troubleshooting Chromebook BYOD

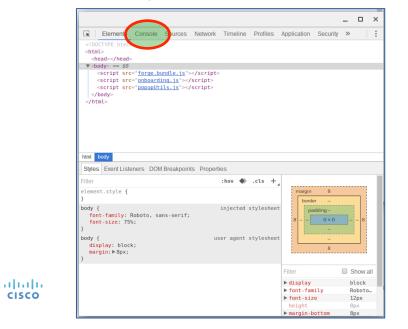
Troubleshooting NSA

- Open up browser window and type in 'chrome://extensions in the address bar
- 2. Ensure ISE NSA is listed as one of the extensions
- 3. Click on 'Developer mode' on the top
- 4. Click on 'Details' under NSA Application



Troubleshooting NSA

- 1. On the newly opened Console windows select 'Console' tab
- 2. Run through the BYOD flow and note the error in the console



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Managed policy found.						onboarding.js:450 onboarding.js:456				
Setting certificate policy - certType : system						onboarding.js:465				
successfully changed policy						onboarding.js:490				

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