# Troubleshooting Jenkins Pipeline

## 1. Email Notification

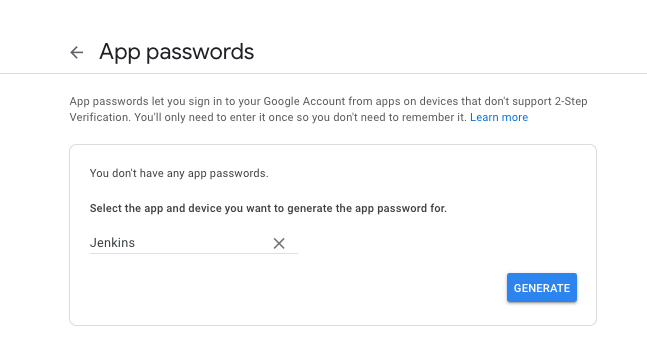
We first encountered issue with post action stage email notification:Graphical user interface, text, application

Description automatically generated

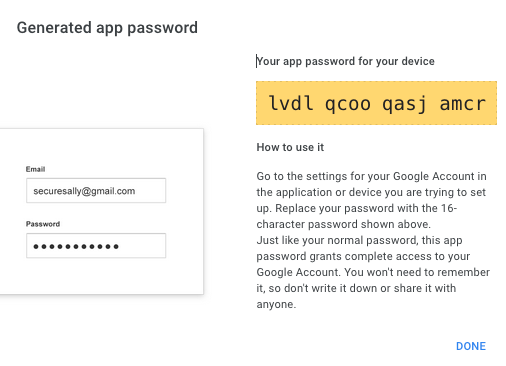
To troubleshoot and first test that sending an email works: go to Dashboard > Manage Jenkins > Configure Systems > Under “E-mail Notification”, configure the SMTP information and credential information:Graphical user interface, text, application, email

Description automatically generated

For password, you first need to [generate an app password on Google](https://stackoverflow.com/questions/35347269/javax-mail-authenticationfailedexception-535-5-7-8-username-and-password-not-ac) – to do so, enable 2-Step Authentication on Gmail, then generate an app password:



Save a copy of the generated password:



Confirm setup was done by testing configuration:Graphical user interface, application

Description automatically generated

Check email:

Text

Description automatically generated with medium confidence

To enable the email notification functionality in the pipeline, navigate to Dashboard > Manage Jenkins > Manage Plugins > Search and download “Email Extension Plugin” – confirm that it has been installed by checking the Installed Plugins tab:

Graphical user interface, text, application

Description automatically generated

Go to Dashboard > Manage Jenkins > Configure Systems > Under “Extended E-mail Notification”, configure the following SMTP info:

Graphical user interface, text, application, email

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Rebuild the pipeline and confirm email receipt of build result:

Graphical user interface, text, application, email

Description automatically generated

## 2. Webhook

On GitHub, we set up a webhook to automate the pipeline build upon a push event:

Graphical user interface, text, application, email

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However, we kept running into errors with the webhook setup:

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Details of the delivery request error:Graphical user interface, text, application

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Description automatically generated

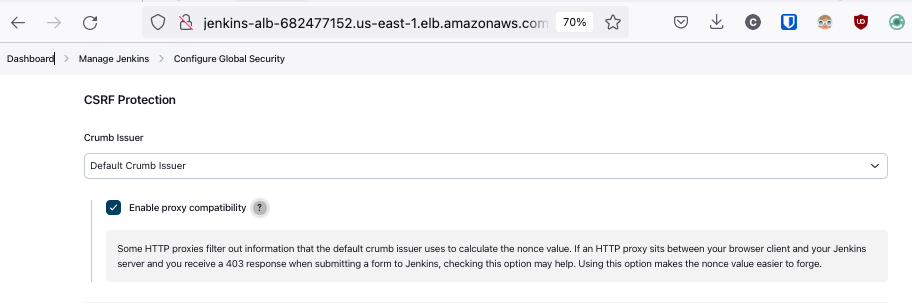
Response Error:

Graphical user interface, text, application

Description automatically generated

At first, we thought it was related to the network setting of the server (since the Jenkins server exists in the private subnet). During brainstorming session, we thought of either opening up the security group to allow traffic from all IP addresses or putting the Jenkins server on the public subnet and opening up the ingress rules there as well. However, we knew that this would compromise the security and visibility of Jenkins server to potential threats.

Upon further research and checking [threads](https://stackoverflow.com/questions/44711696/jenkins-403-no-valid-crumb-was-included-in-the-request), we found out that there is a setting on Jenkins Server that allows proxy compatibility that needed to be set to allow webhook access:



Redelivering a previously failed request succeeded:

Graphical user interface, text, application, email

Description automatically generated

Response with 200 code:

Graphical user interface, text, application

Description automatically generated