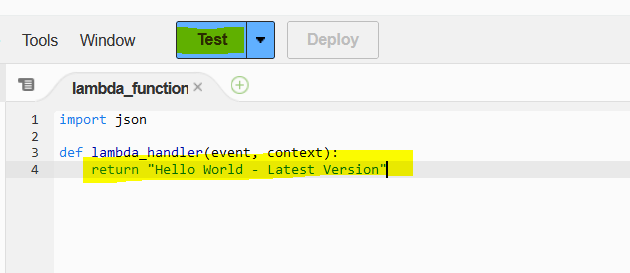
**How are the Versions and Aliases working with together? And How Linear & Canary testing is working with Lambda functions)**

1. **Demo with Versions and Aliases**
2. **Create a dummy lambda with Python3.0**

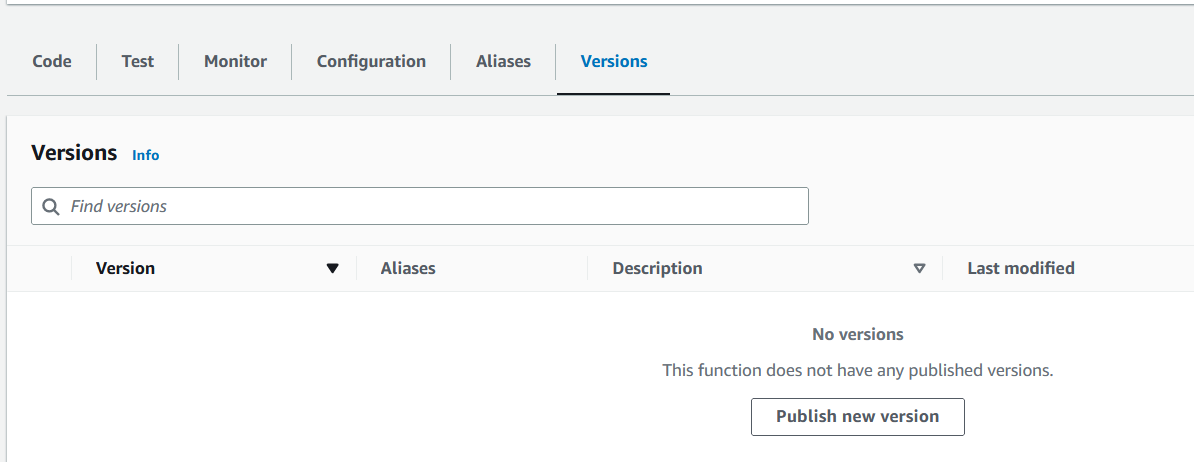


Then test it

A screenshot of a test

Description automatically generated with medium confidence

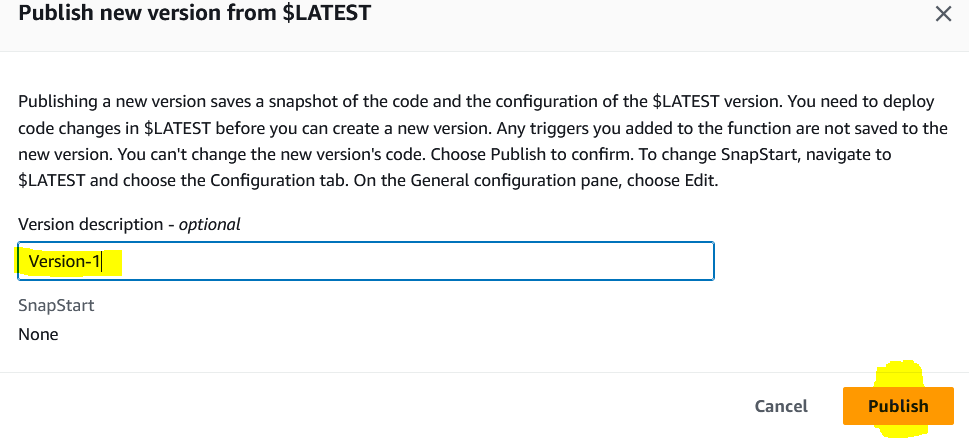
This function doesn’t have versions and aliases



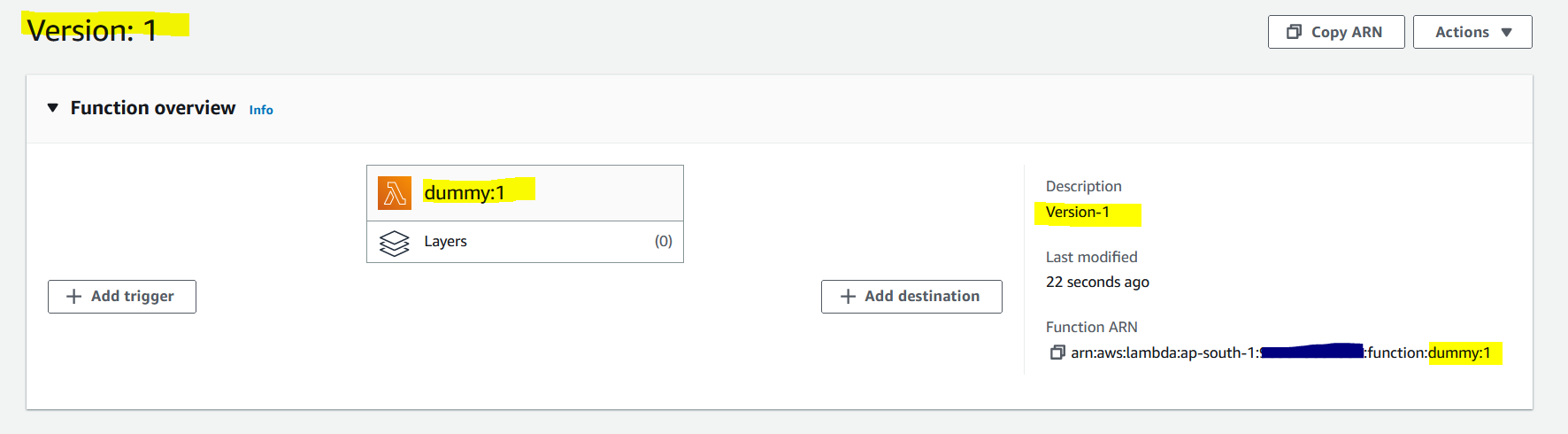
A screenshot of a computer

Description automatically generated with medium confidence

1. **Publish Version-1**



Version-1 has own Amazon Resource Name (ARN) and function has been changed to Version-1



But Version-1 code can’t be changed or updated. Because its Immutable.

A screenshot of a computer

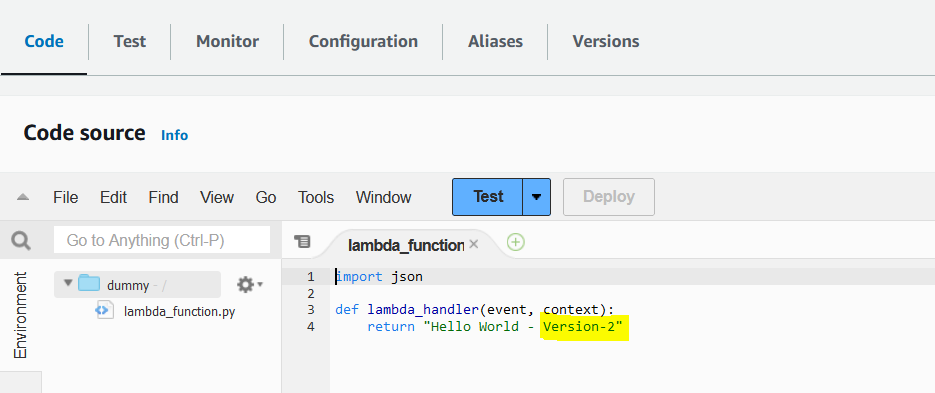
Description automatically generated with medium confidence

So Version-1 has no option to deploy the code in anyway

If you want to change the code, then go back to Latest Version and update the code.

1. **Publish Version-2**

Go back to Latest version and update the code and publish a Version-2



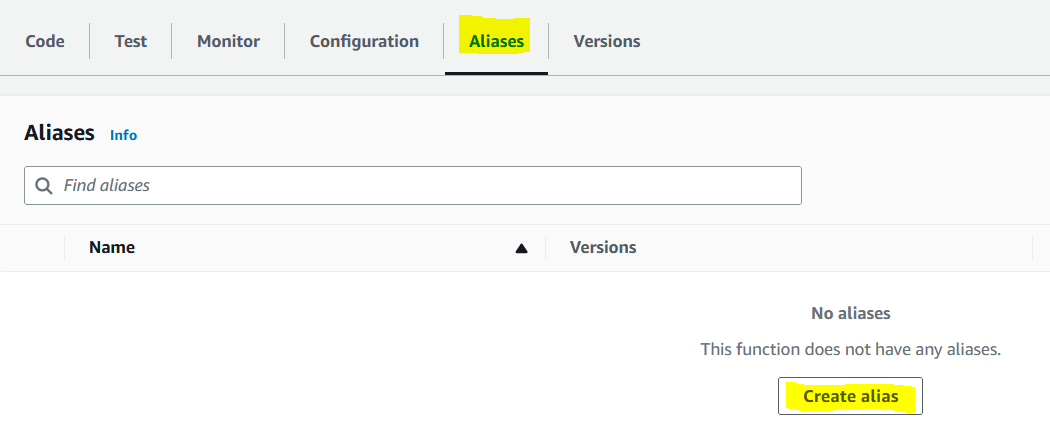
After published the code, test it from Version-2

A screenshot of a computer

Description automatically generated with medium confidence

1. **Create an Alias**

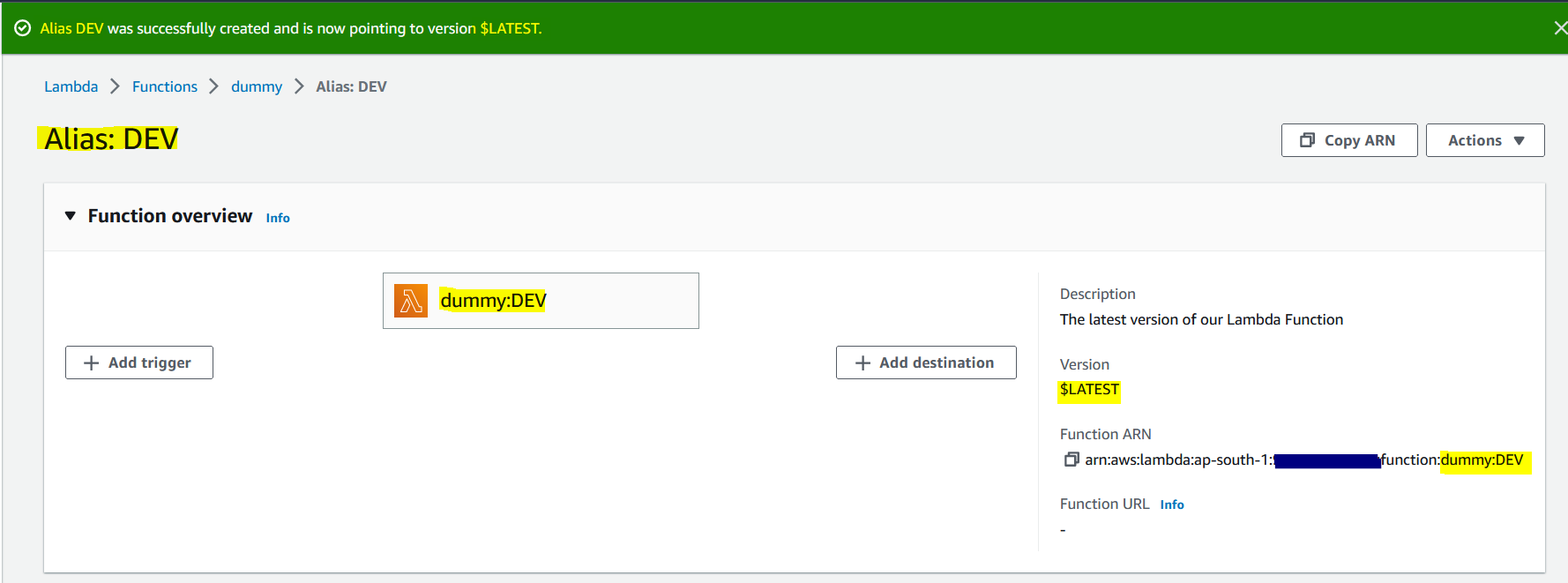
Go back to Latest Version and create an Alias as DEV and Point with Latest Version



A screenshot of a computer

Description automatically generated

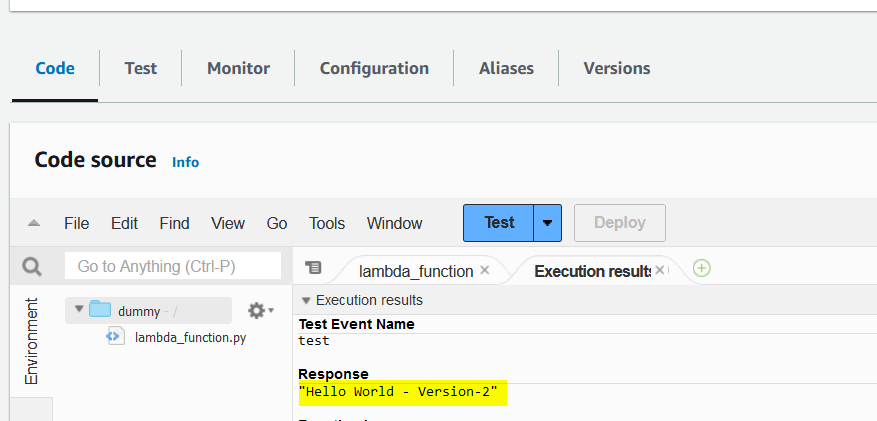
So, the DEV (Alias) is mapped to Latest Version of the Lambda Function



As well, the Alias has own ARN (Amazon Resource Name)

1. **Test with DEV Alias**

Go back to the Latest Version and test the code



Then choose the DEV Alias and test the code

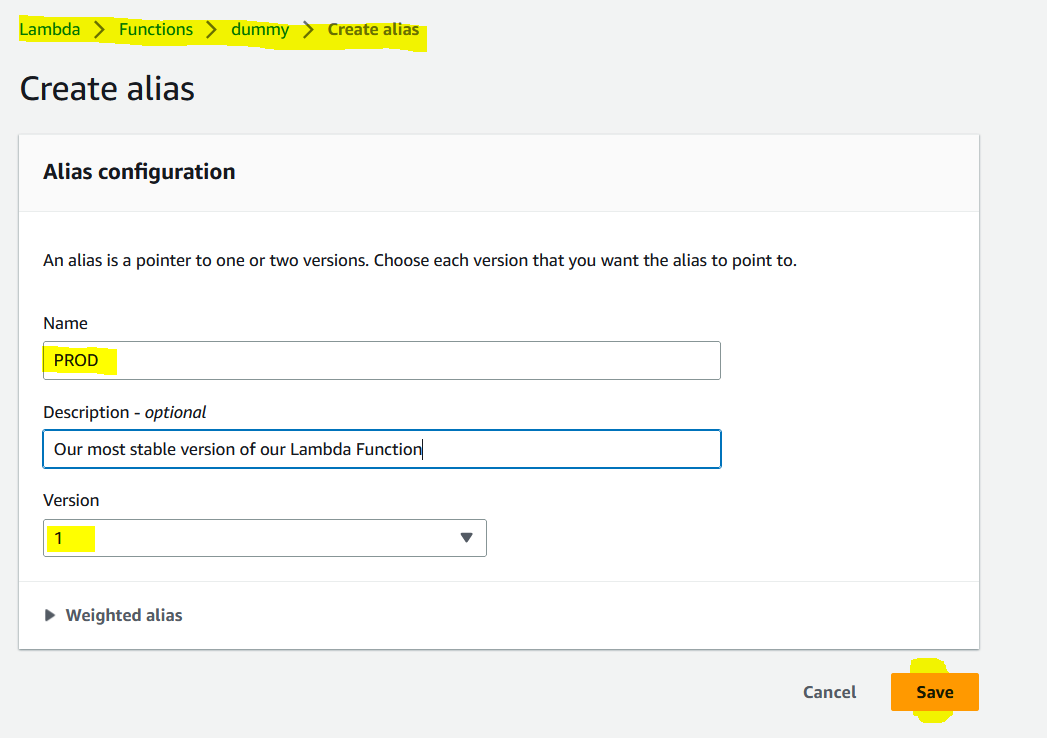
A screenshot of a computer

Description automatically generated with medium confidence

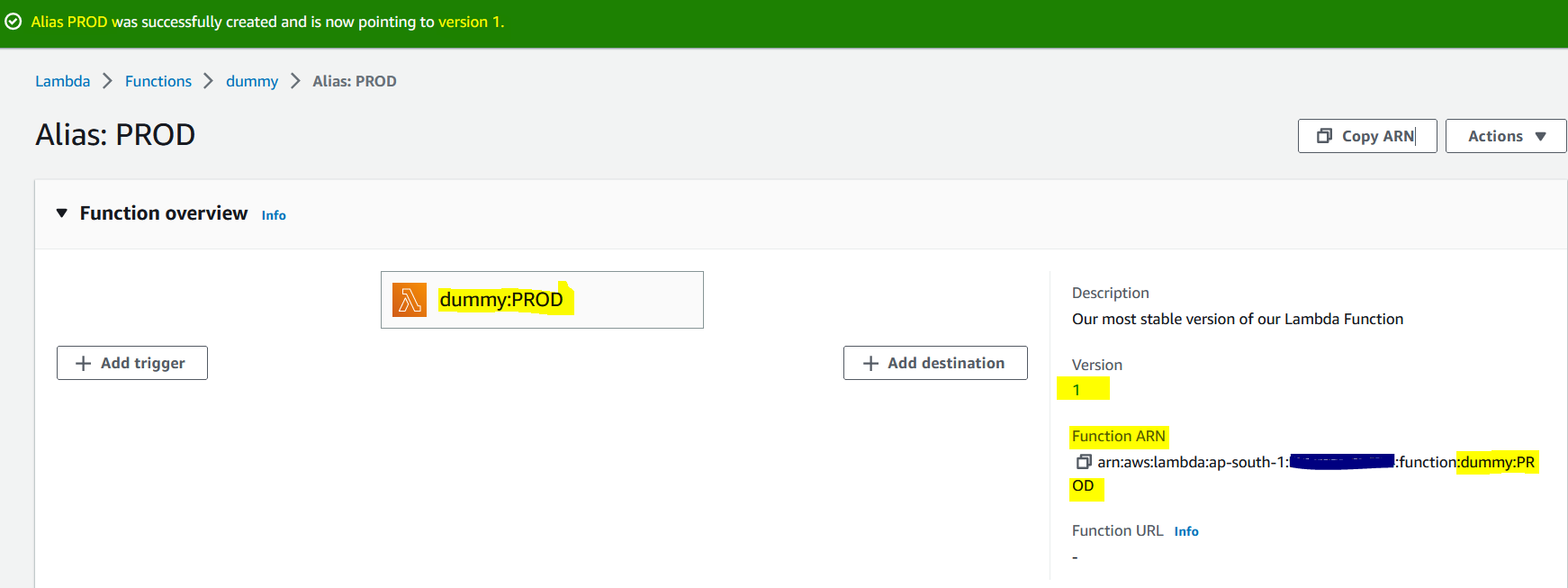
We will have the same output for both Latest Version and DEV Alias. Because Alias is mapped to the Latest Version.

1. **Create a PROD Alias**

Go back to the Latest Version and create one more Alias as PROD, then mapped this PROD Alias to Version-1

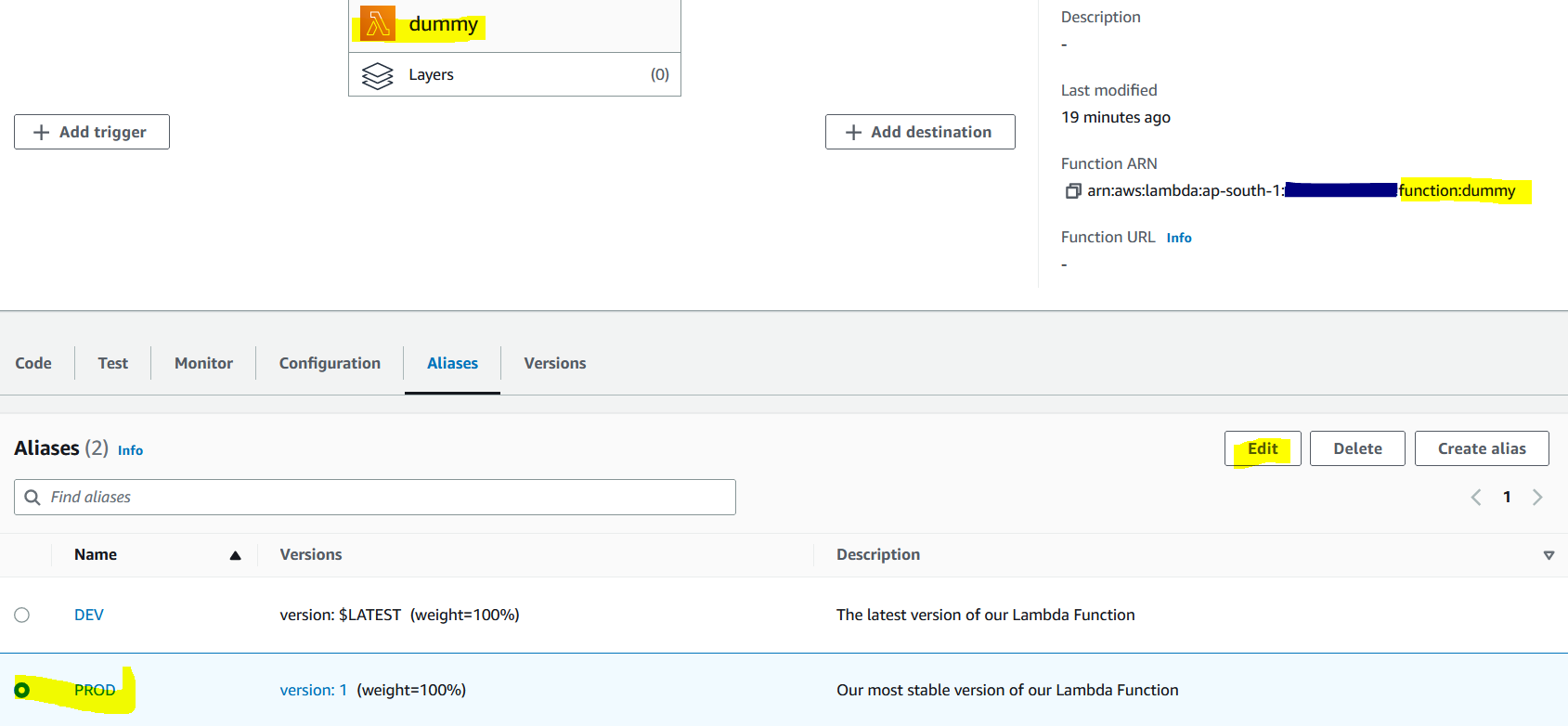


So, PROD Alias is mapped to the Version-1, and it has own ARN

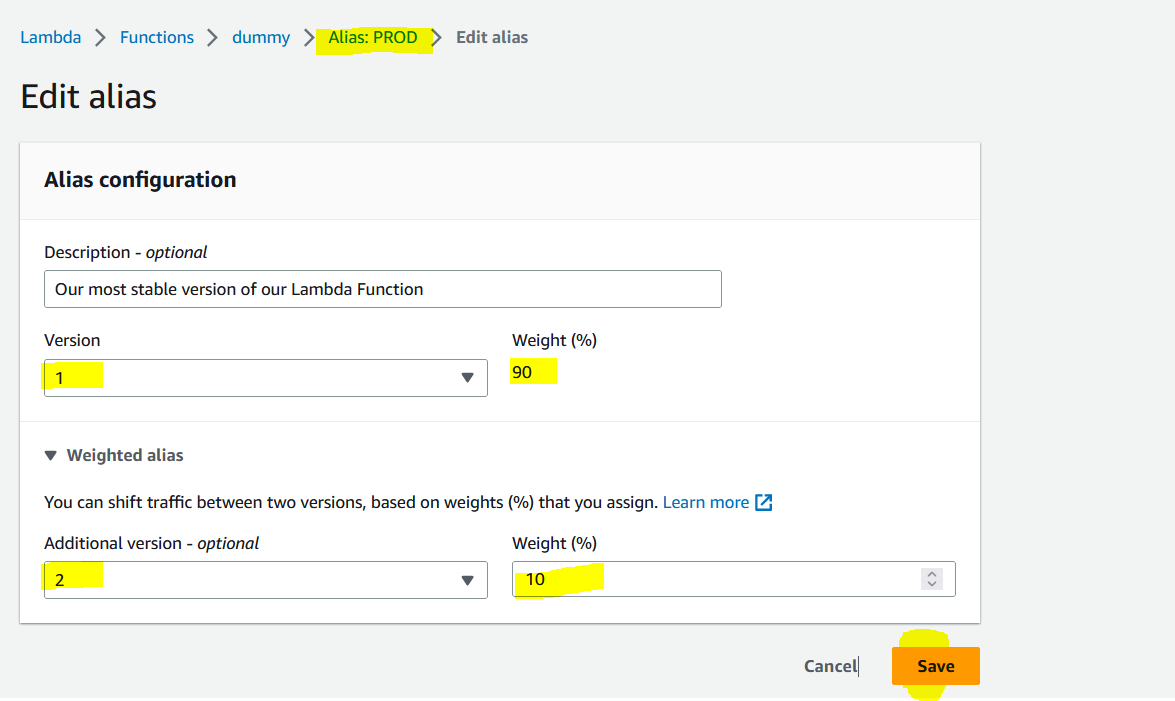


1. **To test with Linear Method (Blue – Green Deployment)**

Go back to Latest Version, and Select PROD Alias and edit the weighted policy

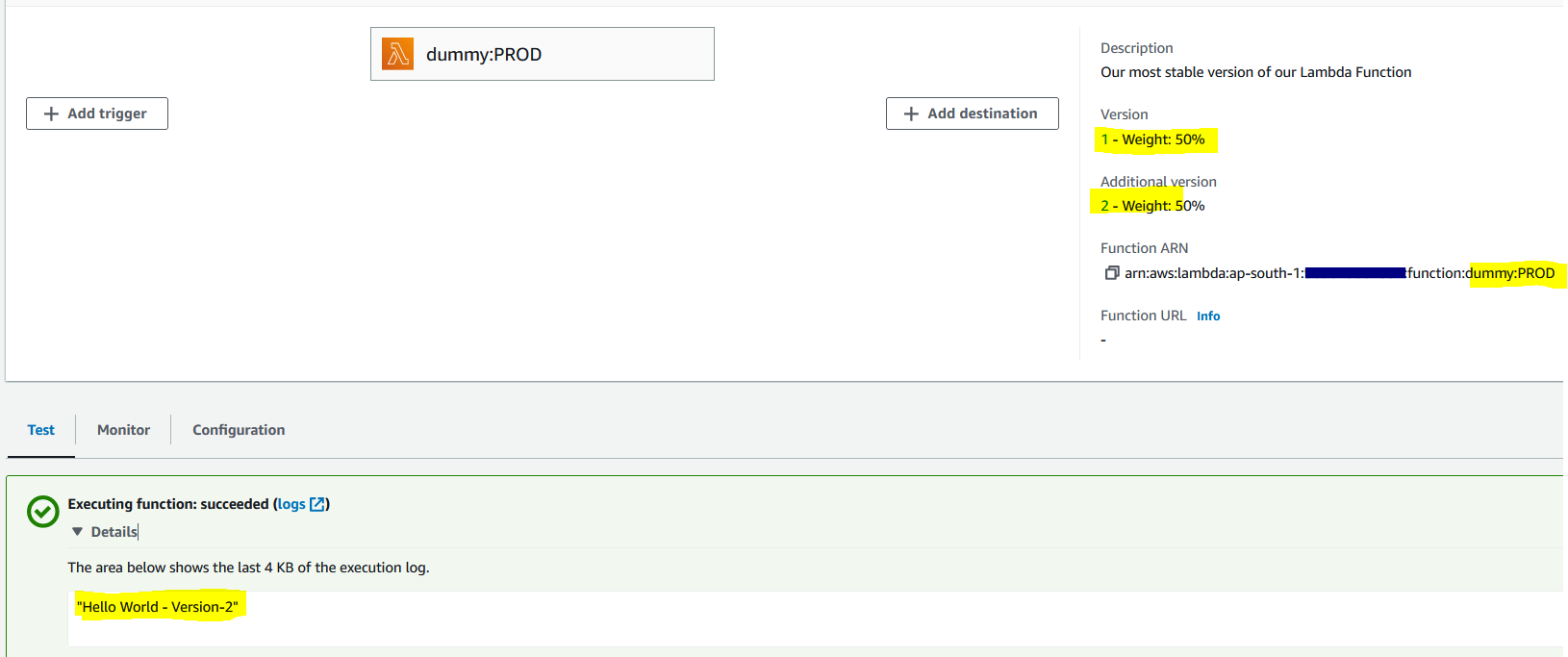


Edit



So, what happened is, 90 % traffic serving to version 1 and 10 % traffic serving to version 2. (Its like a blue-green deployment)

To change the weighted policy 50-50. So every request has been sent to each Version 1 & 2.



Next test will be.

A screenshot of a computer

Description automatically generated with medium confidence

This is linear method (like increasing gradually – 10% 30% 50% 70% 90% 100%) whereas Canary step is based (like first 20 % then 100 %)