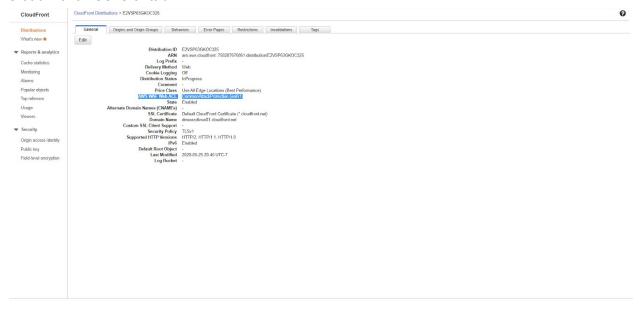
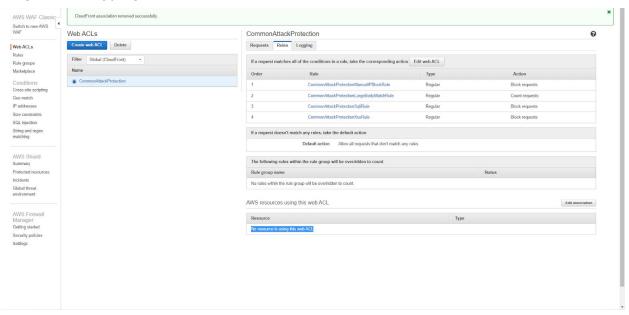
Module 8 Lab 2: Preconfigured Rules w/ Lambda

CloudFront - General tab

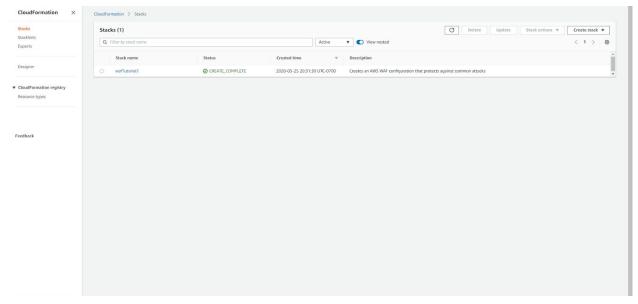


In the previous lab, the CloudFront Distribution was provisioned with CommonAttackProtection WAF. For this lab, that will be replaced with preconfigured rules and lambda called "aws waf security automations".

AWS WAF - Web ACL

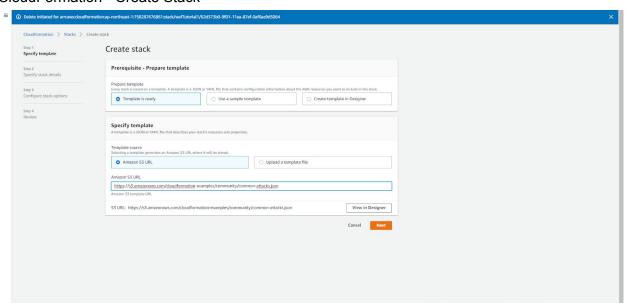


Note there are no resources using this unwanted web ACL.



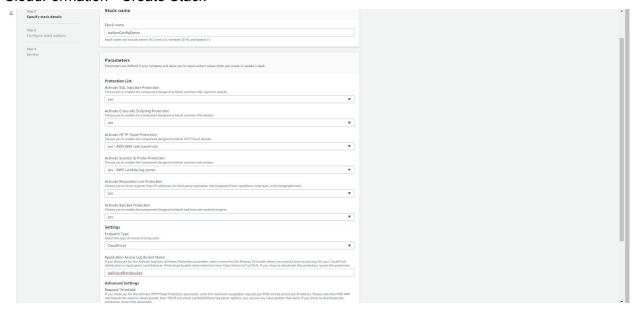
In CloudFormation, the common attacks WAF stack can now be deleted.

CloudFormation - Create Stack



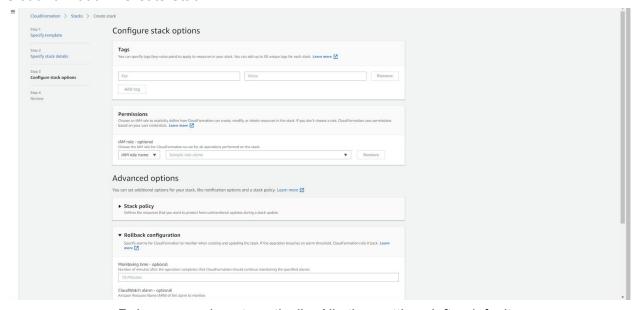
The previous WAF S3 template file location is present, replaced with the new S3 URL.

CloudFormation - Create Stack



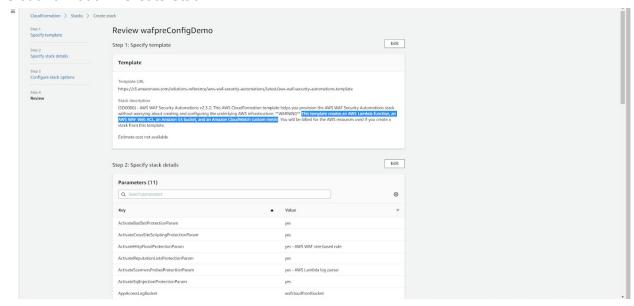
Note the questions about what to protect. Enter a log bucket name.

CloudFormation - Create Stack



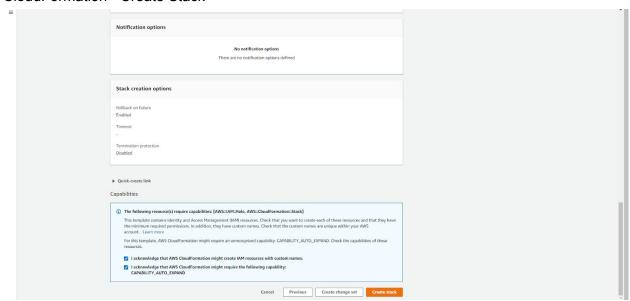
Roles are made automatically. All other settings left a default.

CloudFormation - Create Stack

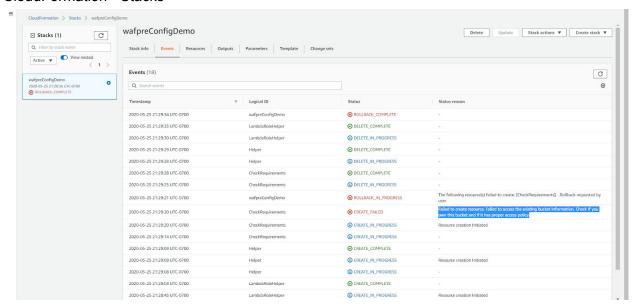


Note the Stack description explains what exactly will be created.

CloudFormation - Create Stack

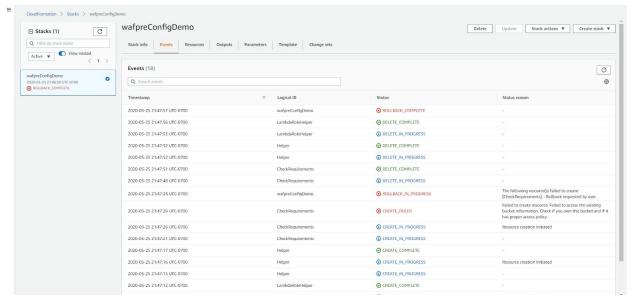


Other capabilities will be created with this CloudFormation template in order for the stack to work.



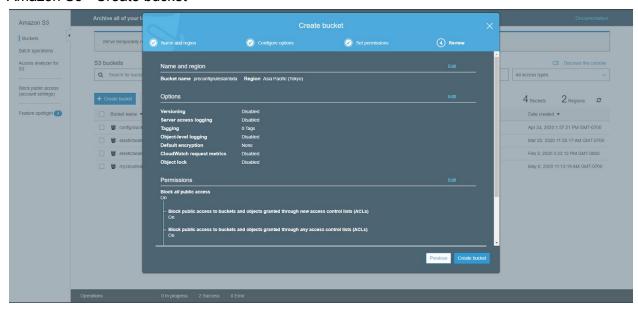
The stack creation failed. The S3 bucket may have an existing permission from the previous CloudFormation stack. The location is Tokyo. A new S3 bucket and Cloudfront may be required.

CloudFormation - Stacks



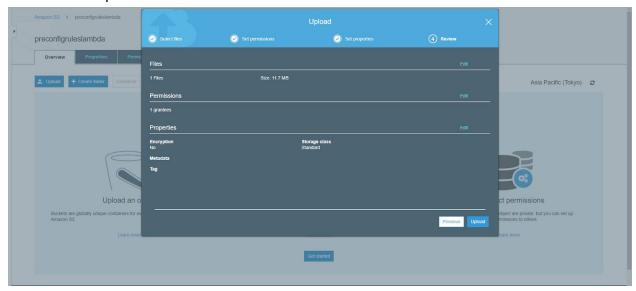
The same error occurred. A new S3 bucket and CloudFront will be created.

Amazon S3 - Create bucket



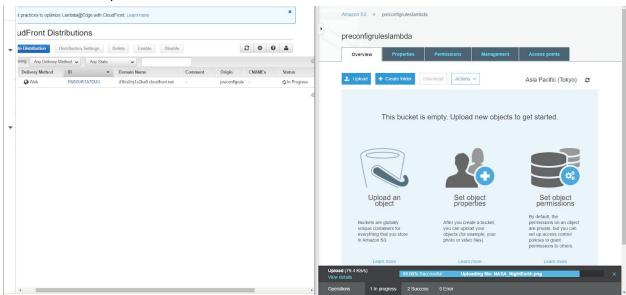
A new S3 bucket was created in the Tokyo region.

Amazon S3 - Upload



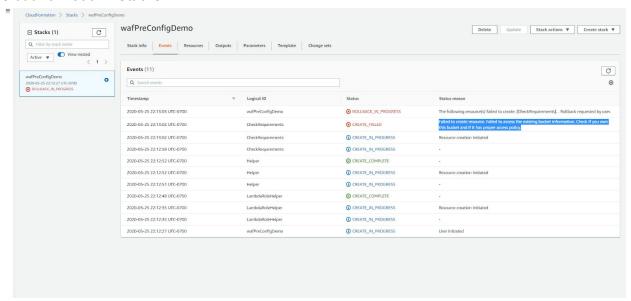
All settings were left at default.

CloudFront/S3 Upload



Note that the CloudFront distribution and a file upload occurred simultaneously.

CloudFormation - Stacks



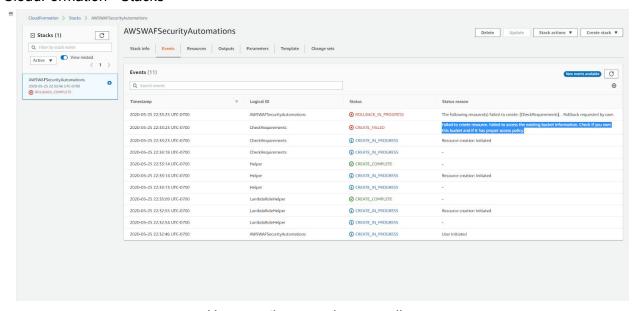
The same error occurred again even with a new S3 bucket and CloudFront distribution.

AWS web

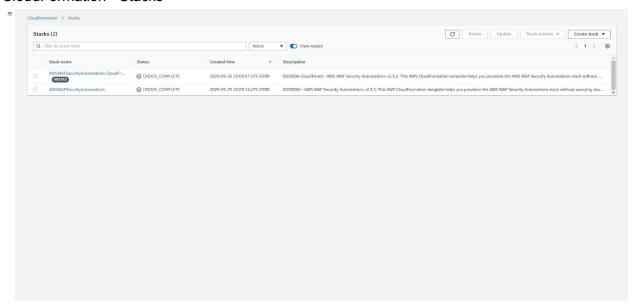


Amazon provides a solution with a Launch in the AWS console option.

CloudFormation - Stacks



However the same issue applies.



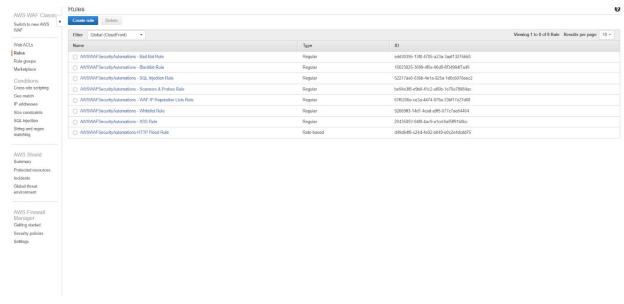
Success! The following changes occured, N. Virginia bucket, smaller file upload, creating a new CloudFront Distribution, and using the AWS WAF Security Automations Launch in the AWS console option.

CloudFront - General tab



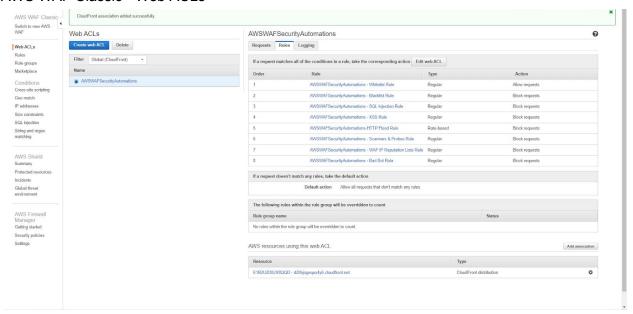
To verify the correct WAF has been set, note that AWS WAF Security Automations is defined.

AWS WAF Classic - Rules



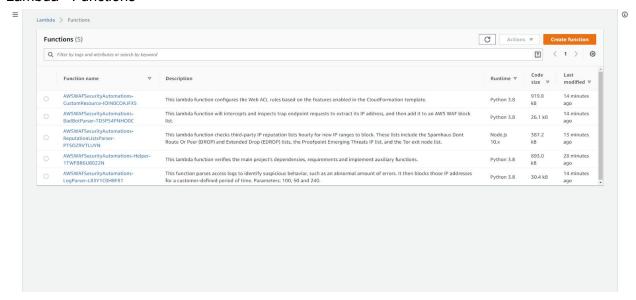
The rule sets have been created.

AWS WAF Classic - Web ACLs



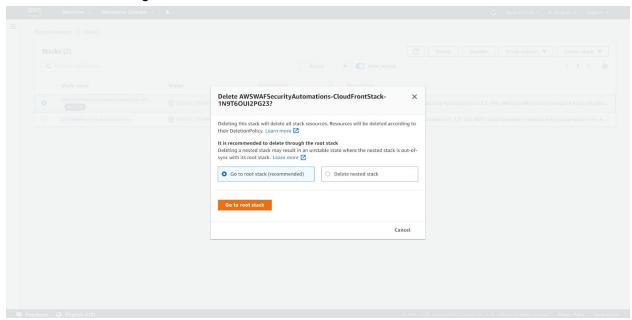
The CloudFront resource successfully added.

Lambda - Functions

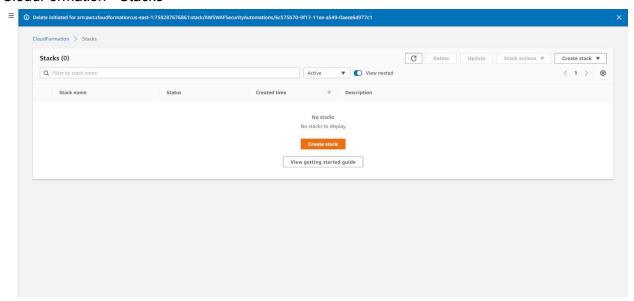


The lambda functions that are at the heart of the autonomous application.

Nested Stack Warning



Deleting a stack containing a nested stack requires deleting the root stack first.



All stacks deleted.