

us-east-1.console.aws.amazon.com/cloud9/home?region=us-east-1#

aws Services ▾ Resource Groups ▾

AppDevRole ▾ N. Virginia ▾ Support ▾

AWS Cloud9

Your environments

Shared with you

Account environments

How-to guide

Your environments (1)

Open IDE View details Edit Delete **Create environment**

< 1 > ⚙

workshop-environment

Type	Permissions
EC2	Owner
Description	
Cloud9 environment for the crypto builders python modules	

Open IDE

Step 1:

- **Navigate to Cloud9 service**
- **Open the environment workshop-environment**
- **If you don't find the environment, you might not be in the right region for your workshop – this slide shows N.Virginia. Depending on where this workshop is being conducted the region might be different**

Feedback English (US)

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us-east-1.console.aws.amazon.com/cloud9/ide/

AWS Cloud9 File Edit Find View Go Run Tools Window Support Preview **Run** Share

Go to Anything (% P)

Environment

- site
- usecase-1
- usecase-2
- usecase-3
- usecase-4
- usecase-5
- usecase-6
- usecase-7
 - cf-templates
 - code
 - create-certs.py
 - revoke-certs.py
 - templates
 - codesigning_cert.pem
 - templates.py
 - environment-setup.sh
 - LICENSE
 - ok
 - README.md
 - setup.log
- usecase-8
 - CODE_OF_CONDUCT.md
 - CONTRIBUTING.md
 - environment-setup.sh
 - LICENSE
 - mkdocs.yml
 - ok
 - README.md

91 Csr=csr_pem,
92 SigningAlgorithm='SHA256WITHRSA',
93 Validity={
94 'Value': 180,
95 'Type': 'DAYS'
96 },
97 IdempotencyToken='dp-workshop-subordinate',
98 TemplateArn = 'arn:aws:acm-pca:::template/CodeSigningCertificate/v1',
99)
100
101 cert_arn = response['CertificateArn']
102 time.sleep(30)
103
104 #####
105 # Let's get the certificate bytes #
106 #####
107 response = acm_pca_client.get_certificate(
118:8 Python Spaces: 4

Step 2:

- Open the file templates.py file under the templates sub directory
- Run the python script templates.py by clicking on the Run button
- After about 2 mins you should see the print

“Successfully created code signing cert codesigning_cert.pem”

bash - "ip-172-31" × Immediate × data-protection/u × data-protection/u ×

Run Command: data-protection/usecase-7/templates/templates.py Runner: Python 3 CWD ENV

This step will take about 2 minutes to complete

Successfully created code signing cert codesigning_cert.pem

Process exited with code: 0

us-east-1.console.aws.amazon.com/cloud9/ide/...

AWS Cloud9 File Edit Find View Go Run Tools Window Support Preview Run

Go to Anything (% P)

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templates.py

```
91     Csr=csr_pem,
92     SigningAlgorithm='SHA256WITHRSA',
93     Validity={
94         'Value': 180,
95         'Type': 'DAYS'
96     },
97     IdempotencyToken='dp-workshop-subordinate',
98     TemplateArn = 'arn:aws:acm-pca::template/Code
99 )
100
101 cert_arn = response['CertificateArn']
102 time.sleep(30)
103
104 #####
105 # Let's get the certificate bytes #
106 #####
107 response = acm_pca_client.get_certificate(
```

Step 3:

- Open a new bash terminal

New File ^ N
New Terminal ⌘ T
New Run Configuration
Open Preferences ⌘ ,
Recently Closed Tabs
New Immediate Window
codesigning_cert.pem

118:8 Python Spaces: 4

bash - "ip-172-31" Immediate data-protection/u data-protection/u

Run Command: data-protection/usecase-7/templates/templates.py Runner: Python 3 CWD ENV

This step will take about 2 minutes to complete

Successfully created code signing cert codesigning_cert.pem

Process exited with code: 0

us-east-1.console.aws.amazon.com/cloud9/ide/

AWS Cloud9 File Edit Find View Go Run Tools Window Support Preview Run Last

Go to Anything (% P)

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Welcome templates.py environment-set bash - "ip-172-31"

```
admin-access:~/environment $ cd data-protection/usecase-7/templates/  
admin-access:~/environment/data-protection/usecase-7/templates (master) $ ls  
codesigning_cert.pem templates.py  
admin-access:~/environment/data-protection/usecase-7/templates (master) $ openssl x509 -in codesigning_cert.pem -text -noout
```

Step 4:

- Change directory to templates

```
cd data-protection/usecase-7/templates/
```

- Run the following command

```
openssl x509 -in codesigning_cert.pem -text -noout
```

bash - "ip-172-31" Immediate data-protection/u data-protection/u

Run Command: data-protection/usecase-7/templates/templates.py Runner: Python 3 CWD ENV

This step will take about 2 minutes to complete

Successfully created code signing cert codesigning_cert.pem

Process exited with code: 0

Collaborate Outline AWS Resources Debugger