A

AWS CLI

RED/BLUE TEAM RECON/ADMIN CLOUD

The AWS Command Line Interface is a unified tool to manage your AWS services.

aws [options] <command> <subcommand> [parameters]

Command displays help for available top-level commands:

aws help

Command displays the available EC2 (Amazon EC2) specific commands:

aws ec2 help

Command displays detailed help for EC2 DescribeInstances operation.

aws ec2 describe-instances help

Cloudtrail - Logging and Auditing

List all trails

aws cloudtrail describe-trails

List all S3 buckets

aws s3 ls

Create a new trail

aws cloudtrail create-subscription --name awslog --s3-new-bucket awslog2020

List the names of all trails

aws cloudtrail describe-trails --output text | cut -f 8

Get the status of a trail

aws cloudtrail get-trail-status --name awslog

Delete a trail

aws cloudtrail delete-trail --name awslog

Delete the S3 bucket of a trail

aws s3 rb s3://awslog2020 --force

Add tags to a trail, up to 10 tags allowed

aws cloudtrail add-tags --resource-id awslog --tags-list "Key=logtype,Value=all"

List the tags of a trail

aws cloudtrail list-tags --resource-id-list

Remove a tag from a trail

aws cloudtrail remove-tags --resource-id awslog --tags-list
"Key=log-type, Value=all"

IAM USERS

**Limits = 5000 users, 100 group, 250 roles, 2 access keys per user

List all user's info

aws iam list-users

List all user's usernames

aws iam list-users --output text | cut -f 6

List current user's info

aws iam get-user

List current user's access keys

aws iam list-access-keys

Create new user

aws iam create-user --user-name aws-admin2

Create multiple new users from file

allUsers=\$(cat ./user-names.txt)
for userName in \$allUsers; do
 aws iam create-user --user-name \$userName
done

List all users

aws iam list-users --no-paginate

Get a specific user's info

aws iam get-user --user-name aws-admin2

Delete one user

aws iam delete-user --user-name aws-admin2

Delete all users

allUsers=\$(aws iam list-users --output text | cut -f 6);

```
allUsers=$(cat ./user-names.txt)
for userName in $allUsers; do
   aws iam delete-user --user-name $userName
done
```

IAM PASSWORD POLICY

List password policy

aws iam get-account-password-policy

Set password policy

Delete password policy

aws iam delete-account-password-policy

IAM ACCESS KEYS

List all access keys

aws iam list-access-keys

List access keys of a specific user

aws iam list-access-keys --user-name aws-admin2

Create a new access key

aws iam create-access-key --user-name aws-admin2 --output text |
tee aws-admin2.txt

List last access time of an access key

aws iam get-access-key-last-used --access-key-id
AKIAINA6AJZY4EXAMPLE

Deactivate an access key

aws iam update-access-key --access-key-id AKIAI44QH8DHBEXAMPLE --status Inactive --user-name aws-admin2

Delete an access key

aws iam delete-access-key --access-key-id AKIAI44QH8DHBEXAMPLE -user-name aws-admin2

IAM GROUPS, POLICIES, MANAGED POLICIES

List all groups

aws iam list-groups

Create a group

aws iam create-group --group-name FullAdmins

Delete a group

aws iam delete-group --group-name FullAdmins

List all policies

aws iam list-policies

Get a specific policy

aws iam get-policy --policy-arn <value>

List all users, groups, and roles, for a given policy

aws iam list-entities-for-policy --policy-arn <value>

List policies, for a given group

aws iam list-attached-group-policies --group-name FullAdmins

Add a policy to a group

aws iam attach-group-policy --group-name FullAdmins --policy-arn
arn:aws:iam::aws:policy/AdministratorAccess

Add a user to a group

aws iam add-user-to-group --group-name FullAdmins --user-name aws-admin2

List users, for a given group

aws iam get-group --group-name FullAdmins

List groups, for a given user

aws iam list-groups-for-user --user-name aws-admin2

Remove a user from a group

aws iam remove-user-from-group --group-name FullAdmins --user-name
aws-admin2

Remove a policy from a group

aws iam detach-group-policy --group-name FullAdmins --policy-arn
arn:aws:iam::aws:policy/AdministratorAccess

Delete a group

aws iam delete-group --group-name FullAdmins

S3 BUCKETS

List existing S3 buckets

aws s3 ls

Create a public facing bucket

aws s3api create-bucket --acl "public-read-write" --bucket bucket_name

Verify bucket was created

aws s3 ls | grep bucket_name

Check for public facing s3 buckets

aws s3api list-buckets --query 'Buckets[*].[Name]' --output text |
xargs -I {} bash -c 'if [[\$(aws s3api get-bucket-acl --bucket {} -query
'"'"'Grants[?Grantee.URI==`http://acs.amazonaws.com/groups/global/A
llUsers` && Permission==`READ`]'"'" --output text)]]; then echo
{}; fi'

Check for public facing s3 buckets & update them to be private

aws s3api list-buckets --query 'Buckets[*].[Name]' --output text |
xargs -I {} bash -c 'if [[\$(aws s3api get-bucket-acl --bucket {} -query
'"'"'Grants[?Grantee.URI==`http://acs.amazonaws.com/groups/global/A
llUsers` && Permission==`READ`]'"'"' --output text)]]; then aws
s3api put-bucket-acl --acl "private" --bucket {} ; fi'

EC2 KEYPAIRS

List all keypairs

aws ec2 describe-key-pairs

Create a keypair

aws ec2 create-key-pair --key-name <value> --output text

Create a new local private / public keypair, using RSA 4096-bit

ssh-keygen -t rsa -b 4096

Import an existing keypair

aws ec2 import-key-pair --key-name keyname_test --public-keymaterial file:///home/user/id_rsa.pub

Delete a keypair

aws ec2 delete-key-pair --key-name <value>

SECURITY GROUPS

List all security groups

aws ec2 describe-security-groups

Create a security group

aws ec2 create-security-group --vpc-id vpc-1a2b3c4d --group-name web-access --description "web access"

List details about a security group

aws ec2 describe-security-groups --group-id sg-0000000

Open port 80, for all users

aws ec2 authorize-security-group-ingress --group-id sg-0000000 -- protocol tcp --port 80 --cidr 0.0.0/24

Open port 22, just for "my IP" aws ec2 authorize-security-group-ingress --group-id sg-0000000 -- protocol tcp --port 80 --cidr <my_ip>/32

Remove a firewall rule from a group

aws ec2 revoke-security-group-ingress --group-id sg-0000000 -- protocol tcp --port 80 --cidr 0.0.0/24

Delete a security group

aws ec2 delete-security-group --group-id sg-00000000

IMAGES

List all private AMI's, ImageId and Name tags

aws ec2 describe-images --filter "Name=is-public, Values=false" -query 'Images[].[ImageId, Name]' --output text | sort -k2

Delete an AMI, by ImageId

aws ec2 deregister-image --image-id ami-00000000

INSTANCES

List all instances (running, and not running)

aws ec2 describe-instances

List all instances running

aws ec2 describe-instances --filters Name=instance-state-name, Values=running

Create a new instance

aws ec2 run-instances --image-id ami-f0e7d19a --instance-type t2.micro --security-group-ids sg-00000000 --dry-run

Stop an instance

aws ec2 terminate-instances --instance-ids <instance id>

List status of all instances

aws ec2 describe-instance-status

List status of a specific instance

aws ec2 describe-instance-status --instance-ids <instance_id>

List all running instance, Name tag and Public IP Address

aws ec2 describe-instances --filters Name=instance-statename,Values=running --query
'Reservations[].Instances[].[PublicIpAddress,
Tags[?Key==`Name`].Value | [0]]' --output text | sort -k2

INSTANCES TAGS

List the tags of an instance

aws ec2 describe-tags

Add a tag to an instance

aws ec2 create-tags --resources "ami-1a2b3c4d" --tags Key=name, Value=debian

Delete a tag on an instance

aws ec2 delete-tags --resources "ami-1a2b3c4d" --tags
Key=Name, Value=

CLOUDWATCH LOG GROUPS

Create a group

aws logs create-log-group --log-group-name "DefaultGroup"

List all log groups

aws logs describe-log-groups

aws logs describe-log-groups --log-group-name-prefix "Default"

Delete a group

aws logs delete-log-group --log-group-name "DefaultGroup"

CLOUDWATCH LOG STREAMS

Create a log stream

aws logs create-log-stream --log-group-name "DefaultGroup" --logstream-name "syslog"

List details on a log stream

aws logs describe-log-streams --log-group-name "syslog"

aws logs describe-log-streams --log-stream-name-prefix "syslog"

Delete a log stream

aws logs delete-log-stream --log-group-name "DefaultGroup" --logstream-name "Default Stream"

LAMBDA

Get Lambda function config

aws lambda get-function-configuration --function-name
<CUSTOM_FUNCTION_NAME> --profile <PROFILE_NAME>

SNS

Get Simple Notification Service configurations

aws sns list-topics --profile <PROFILE_NAME>
aws sns get-topic-attributes --topic-arn "arn:aws:sns:us-east1:945109781822:<custom_suffix>" --profile <PROFILE_NAME>
aws sns list-subscriptions --profile <PROFILE_NAME>
aws sns get-subscription-attributes --subscription-arn
"arn:aws:sns:us-east-1:945109781822:<custom_part>:6d92f5d3-f299485d-b6fb-1aca6d9a497c" --profile <PROFILE_NAME>

RDS

Get database instances

aws rds describe-db-security-groups --db-security-group-name
<DB_SG_NAME> --profile <PROFILE_NAME>
aws rds describe-db-instances --db-instance-identifier
<DB_INSTANCE_ID> --profile <PROFILE_NAME>

REFERENCE:

https://github.com/aws/aws-cli

https://docs.aws.amazon.com/cli/latest/userguide/cli-chap-welcome.html

https://gist.github.com/apolloclark/b3f60c1f68aa972d324b

A

AWS_Defend

BLUE TEAM	FORENSICS	CLOUD
0202 12/11	TONE TOO	02000

CLOUDTRAIL MONITORING

Successful Logins

Example search below returns successful authentications without multi-factor authentication. It can help detect suspicious logins or accounts on which MFA is not enforced.

```
sourcetype="aws:cloudtrail" eventName="ConsoleLogin"
"responseElements.ConsoleLogin"=Success
"additionalEventData.MFAUsed"=No
```

Failed Logins by Source

Example search returns a table of failed authentication, including the source IP, country, city and the reason why the authentication failed.

```
sourcetype="aws:cloudtrail" eventName="ConsoleLogin"
"responseElements.ConsoleLogin"=Failure
| iplocation sourceIPAddress
| stats count by userName, userIdentity.accountId, eventSource,
sourceIPAddress, Country, City, errorMessage
| sort - count
```

CryptoMining GPU Instance Abuse

Example of Splunk search to identify GPU instances that have been started.

```
sourcetype="aws:cloudtrail" eventSource="ec2.amazonaws.com"
eventName="RunInstances"
| spath output=instanceType path=requestParameters.instanceType
| spath output=minCount
path=requestParameters.instancesSet{}.items{}.minCount
| search instanceType IN ("p3.2xlarge", "p3.8xlarge",
    "p3.16xlarge", "p3dn.24xlarge", "p2.xlarge", "p2.8xlarge",
    "p2.16xlarge", "g3s.xlarge", "g3.4xlarge", "g3.8xlarge",
    "g3.16xlarge")
| stats count by eventSource, eventName, awsRegion, userName,
userIdentity.accountId, sourceIPAddress, userIdentity.type,
requestParameters.instanceType,
responseElements.instanceSet.items{}.instanceId,
responseElements.instancesSet.items{}.networkInterfaceSet.items{}.p
rivateIpAddress, minCount
| fields - count
```

Security Group Configurations

Example search below looks for rules allowing inbound traffic on port 22 from any IPs. Then we look for the associated instance IDs and append them to the list.

```
sourcetype="aws:cloudtrail" eventSource="ec2.amazonaws.com"
eventName="AuthorizeSecurityGroupIngress"
| spath output=fromPort
path=requestParameters.ipPermissions.items{}.fromPort
| spath output=toPort
path=requestParameters.ipPermissions.items{}.toPort
| spath output=cidrIp
path=requestParameters.ipPermissions.items{}.ipRanges.items{}.cidrI
| spath output=groupId path=requestParameters.groupId
| spath output=accountId path=userIdentity.accountId
| spath output=type path=userIdentity.type
| search fromPort=22 toPort=22 AND cidrIp="0.0.0.0/0"
| spath output=ipPermissions
path=requestParameters.ipPermissions.items{}
| mvexpand ipPermissions
| fields - fromPort, toPort, cidrIp
| spath input=ipPermissions
| spath output=cidrIp path=ipRanges.items{}.cidrIp
input=ipPermissions
| join groupId
    [ search index=aws eventName=RunInstances earliest=-7d
    fields
"responseElements.instancesSet.items{}.groupSet.items{}.groupId",
"responseElements.instancesSet.items{}.instanceId"
responseElements.instancesSet.items{}.groupSet.items{}.groupId as
groupId, "responseElements.instancesSet.items{}.instanceId" as
instanceId]
| stats values(instanceId) by groupId, userName, accountId, type,
sourceIPAddress, cidrIp, fromPort, toPort, ipProtocol
```

Network ACL Creation

Example below searches for creation of Network ACL rules allowing inbound connections from any sources.

```
sourcetype="aws:cloudtrail" eventSource="ec2.amazonaws.com"
eventName=CreateNetworkAclEntry
| spath output=cidrBlock path=requestParameters.cidrBlock
| spath output=ruleAction path=requestParameters.ruleAction
| search cidrBlock=0.0.0.0/0 ruleAction=Allow
```

Detect Public S3 Buckets

Eample search looking for the PutBucketAcl event name where the grantee URI is AllUsers we can identify and report the open buckets.

```
sourcetype=aws:cloudtrail AllUsers eventName=PutBucketAcl
errorCode=Success
| spath output=userIdentityArn path=userIdentity.arn
| spath output=bucketName path=requestParameters.bucketName
```

| spath output=aclControlList
path=requestParameters.AccessControlPolicy.AccessControlList
| spath input=aclControlList output=grantee path=Grant{}
| mvexpand grantee
| spath input=grantee
| spath input=grantee
| search Grantee.URI=*AllUsers
| rename userIdentityArn as user
| table _time, src,awsRegion Permission, Grantee.URI, bucketName, user

VPC Traffic Mirroring

Capture & Inspect Network Traffic

aws ec2 create-traffic-mirror-filter --description "TCP Filter"

REFERENCE:

https://0x00sec.org/t/a-blue-team-guide-to-aws-cloudtrail-monitoring/15086 https://docs.aws.amazon.com/vpc/latest/mirroring/traffic-mirroring-filter.html#create-traffic-mirroring-filter

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AWS_Exploit			
RED TEAM	EXPLOITATION	CLOUD	

NIMBOSTRATUS

Install

git clone git@github.com:andresriancho/nimbostratus.git
cd nimbostratus
pip install -r requirements.txt

Prerequisites

Amazon AWS User account Access Key Boto Python 2.7 library

Insert VULN URL into the utils/mangle.py file. Run dump-metada:

nimbostratus -v dump-ec2-metadata --manglefunction=core.utils.mangle.mangle

Enumerate meta-data service of target using mangle function & retrieve any access key credentials found on the meta-data server:

nimbostratus -v dump-credentials --manglefunction=core.utils.mangle.mangle

Dump all permissions for the provided credentials. Use right after dump-credentials to know which permissions are available:

Create a new user. Assigns a random name to the created user and attaches a policy which looks like this:

Execute:

Create RDS database snapshot:

PACU

Install

```
git clone https://github.com/RhinoSecurityLabs/pacu
cd pacu
bash install.sh
python3 pacu.py
```

Starting Pacu

python3 pacu.py

>set_keys

```
AWS key pair. Has no bearing on AWS permissions.

#Access Key - Generated from an AWS User

#Secret Key - Secret key associated with access key. Omitted in image.

#(Optional) Session Key - serves as a temporary access key to access AWS services.
```

#Key alias - Used internally within Pacu and is associated with a

**provide a session name, after which you can add your compromised credentials with the set_keys command and begin running modules

Running Modules

#list out modules

> 1s

SYNTAX:> run <module name> [--keyword-arguments]

PACU MODULES

iam enum assume role

Enumerates existing roles in other AWS accounts to try and gain access via misconfigurations.

iam__enum_users

Enumerates IAM users in a separate AWS account, given the account ID.

s3 bucket finder

Enumerates/bruteforces S3 buckets based on different parameters.

aws__enum_account

Enumerates data About the account itself.

aws__enum_spend

Enumerates account spend by service.

codebuild__enum

Enumerates CodeBuild builds and projects while looking for sensitive data

ebs enum volumes snapshots

Enumerates EBS volumes and snapshots and logs any without encryption.

ec2__check_termination_protection

Collects a list of EC2 instances without termination protection.

ec2 download userdata

Downloads User Data from EC2 instances.

ec2 enum

Enumerates a ton of relevant EC2 info.

glue__enum

Enumerates Glue connections, crawlers, databases, development endpoints, and jobs.

iam enum permissions

Tries to get a confirmed list of permissions for the current (or all) user(s).

iam__enum_users_roles_policies_groups

Enumerates users, roles, customer-managed policies, and groups.

iam get credential report

Generates and downloads an IAM credential report.

inspector__get_reports

Captures vulnerabilties found when running a preconfigured inspector report.

lambda__enum

Enumerates data from AWS Lambda.

lightsail__enum

Captures common data associated with Lightsail

iam privesc scan

An IAM privilege escalation path finder and abuser.

**WARNING: Due to the implementation in IAM policies, this module has a difficult time parsing "NotActions". LATERAL MOVE

cloudtrail csv injection

Inject malicious formulas/data into CloudTrail event history.

vpc__enum_lateral_movement

Looks for Network Plane lateral movement opportunities.

api_gateway__create_api_keys

Attempts to create an API Gateway key for any/all REST APIs that are defined.

ebs__explore_snapshots

Restores and attaches EBS volumes/snapshots to an EC2 instance of your choice.

ec2__startup_shell_script

Stops and restarts EC2 instances to execute code.

lightsail__download_ssh_keys

Downloads Lightsails default SSH key pairs.

lightsail __generate_ssh_keys

Creates SSH keys for available regions in AWS Lightsail.

lightsail__generate_temp_access

Creates temporary SSH keys for available instances in AWS Lightsail.

systemsmanager rce ec2

Tries to execute code as root/SYSTEM on EC2 instances.

**NOTE: Linux targets will run the command using their default shell (bash/etc.) and Windows hosts will run the command using

PowerShell, so be weary of that when trying to run the same command against both operating systems. Sometimes Systems Manager Run **Command can delay the results of a call by a random amount. Experienced 15 minute delays before command was executed on the target.

ec2 backdoor ec2 sec groups

Adds backdoor rules to EC2 security groups.

iam backdoor assume role

Creates assume-role trust relationships between users and roles.

iam__backdoor_users_keys

Adds API keys to other users.

iam__backdoor_users_password

Adds a password to users without one.

s3__download_bucket

Enumerate and dumps files from S3 buckets.

cloudtrail download event history

Downloads CloudTrail event history to JSON files to ./sessions/[current_session_name]/downloads/cloudtrail_[region]_ event history [timestamp].json.

**NOTE: This module can take a very long time to complete. A rough estimate is about 10000 events retrieved per five minutes.

cloudwatch__download_logs

Captures CloudWatch logs and downloads them to the session downloads folder

detection__disruption

Disables, deletes, or minimizes various logging/monitoring services.

detection enum services

Detects monitoring and logging capabilities.

elb__enum_logging

Collects a list of Elastic Load Balancers without access logging and write a list of ELBs with logging disabled to ./sessions/[current_session_name]/downloads/elbs_no_logs_[timest amp].csv.

guardduty__whitelist_ip

Adds an IP address to the list of trusted IPs in GuardDuty.
**NOTE: This will not erase any existing GuardDuty findings, it
will only prevent future findings related to the included IP
addresses.

**WARNING: Only one list of trusted IP addresses is allowed per GuardDuty detector. This module will prompt you to delete an existing list if you would like, but doing so could have unintended bad consequences on the target AWS environment.

waf__enum

Detects rules and rule groups for WAF.

REFERENCE:

https://andresriancho.github.io/nimbostratus/

https://www.cloudsecops.com/post-exploitation-in-aws/

https://github.com/RhinoSecurityLabs/pacu

https://github.com/puresec/awesome-serverless-security/

https://zoph.me/posts/2019-12-16-aws-security-toolbox/

https://know.bishopfox.com/research/privilege-escalation-in-aws

https://github.com/BishopFox/smogcloud

https://github.com/bishopfox/dufflebag

https://rhinosecuritylabs.com/aws/abusing-vpc-traffic-mirroring-in-aws/

A

AWS_Hardening			
	BLUE TEAM	CONFIGURATION	CLOUD

AWS Best Practices Rules

https://www.cloudconformity.com/knowledge-base/aws/

A

AWS_Terms				
	ALL	GENERAL	CLOUD	

AWS IoT: AWS IoT is a managed cloud service that lets connected devices easily and securely interact with cloud applications and other devices.

Certificate Manager: AWS Certificate Manager easily provision, manage, and deploy Secure Sockets Layer/Transport Layer Security (SSL/TLS) certificates for use with AWS services.

CloudFormation: AWS CloudFormation lets you create and update a collection of related AWS resources in a predictable fashion.

CloudFront: Amazon CloudFront provides a way to distribute content to end-users with low latency and high data transfer speeds.

CloudSearch: AWS CloudSearch is a fully managed search service for websites and apps.

CloudTrail: AWS CloudTrail provides increased visibility into user activity by recording API calls made on your account.

Data Pipeline: AWS Data Pipeline is a lightweight orchestration service for periodic, data-driven workflows.

DMS: AWS Database Migration Service (DMS) helps you migrate databases to the cloud easily and securely while minimizing downtime.

DynamoDB: Amazon DynamoDB is a scalable NoSQL data store that manages distributed replicas of your data for high availability.

EC2: Amazon Elastic Compute Cloud (EC2) provides resizable compute capacity in the cloud.

EC2 Container Service: Amazon ECS allows you to easily run and manage Docker containers across a cluster of Amazon EC2 instances.

Elastic Beanstalk: AWS Elastic Beanstalk is an application container for deploying and managing applications.

ElastiCache: Amazon ElastiCache improves application performance by allowing you to retrieve information from an in-memory caching system.

Elastic File System: Amazon Elastic File System (Amazon EFS) is a file storage service for Amazon Elastic Compute Cloud (Amazon EC2) instances.

Elasticsearch Service: Amazon Elasticsearch Service is a managed service that makes it easy to deploy, operate, and scale Elasticsearch, a popular open-source search and analytics engine.

Elastic Transcoder: Amazon Elastic Transcoder lets you convert your media files in the cloud easily, at low cost, and at scale

EMR: Amazon Elastic MapReduce lets you perform big data tasks such as web indexing, data mining, and log file analysis.

Glacier: Amazon Glacier is a low-cost storage service that provides secure and durable storage for data archiving and backup.

IAM: AWS Identity and Access Management (IAM) lets you securely control access to AWS services and resources.

Inspector: Amazon Inspector enables you to analyze the behavior of the applications you run in AWS and helps you to identify potential security issues.

Kinesis: Amazon Kinesis services make it easy to work with realtime streaming data in the AWS cloud.

Lambda: AWS Lambda is a compute service that runs your code in response to events and automatically manages the compute resources for you.

Machine Learning: Amazon Machine Learning is a service that enables you to easily build smart applications.

OpsWorks: AWS OpsWorks is a DevOps platform for managing applications of any scale or complexity on the AWS cloud.

RDS: Amazon Relational Database Service (RDS) makes it easy to set up, operate, and scale familiar relational databases in the cloud.

Redshift: Amazon Redshift is a fast, fully managed, petabyte--scale data warehouse that makes it cost-effective to analyze all your data using your existing business intelligence tools.

Route 53: Amazon Route 53 is a scalable and highly available Domain Name System (DNS) and Domain Name Registration service.

SES: Amazon Simple Email Service (SES) enables you to send and receive email.

SNS: Amazon Simple Notification Service (SNS) lets you publish messages to subscribers or other applications.

Storage Gateway: AWS Storage Gateway securely integrates on-premises IT environments with cloud storage for backup and disaster recovery.

SQS: Amazon Simple Queue Service (SQS) offers a reliable, highly scalable, hosted queue for storing messages.

SWF: Amazon Simple Workflow (SWF) coordinates all of the processing steps within an application.

S3: Amazon Simple Storage Service (S3) can be used to store and retrieve any amount of data.

VPC: Amazon Virtual Private Cloud (VPC) lets you launch AWS resources in a private, isolated cloud.

REFERENCE:

https://www.northeastern.edu/graduate/blog/aws-terminology/

A

AWS_Tricks				
	ALL	MISC	CLOUD	_

SUBNETS

Creating A Subnet

aws ec2 create-subnet --vpc-id <vpc_id> --cidr-block <cidr_block> -availability-zone <availability_zone> --region <region>

Auto Assigning Public IPs To Instances In A Public Subnet

aws ec2 modify-subnet-attribute --subnet-id <subnet_id> --mappublic-ip-on-launch --region <region>

VPC

Creating A VPC

aws ec2 create-vpc --cidr-block <cidr block> --regiosn <region>

Allowing DNS hostnames

aws ec2 modify-vpc-attribute --vpc-id <vpc_id> --enable-dnshostnames "{\"Value\":true}" --region <region>

NAT

Setting Up A NAT Gateway

#Allocate Elastic IP

aws ec2 allocate-address --domain vpc --region <region>

#AllocationId to create the NAT Gateway for the public zone

aws ec2 create-nat-gateway --subnet-id <subnet_id> --allocation-id
<allocation_id> --region <region>

S3 API

Listing Only Bucket Names

aws s3api list-buckets --query 'Buckets[].Name'

Getting a Bucket Region

aws s3api get-bucket-location --bucket <bucket_name>

Syncing a Local Folder with a Bucket

aws s3 sync <local_path> s3://<bucket_name>

Copying Folders

aws s3 cp <folder_name>/ s3://<bucket_name>/ --recursive

To exclude files from copying

aws s3 cp <folder_name>/ s3://<bucket_name>/ --recursive --exclude
"<file_name_or_a_wildcard_extension>"

To exclude a folder from copying

aws s3 cp example.com/ s3://example-backup/ --recursive --exclude
".git/*"

Removing a File from a Bucket

aws s3 rm s3://<bucket_name>/<file_name>

Deleting a Bucket

aws s3 rb s3://<bucket name> --force

Emptying a Bucket

aws s3 rm s3://<bucket name>/<key name> --recursive

EC2 Instance

Creating AMI Without Rebooting the Machine

aws ec2 create-image --instance-id <instance_id> --name "image-\$(date +'%Y-%m-%d_%H-%M-%S')" --description "image-\$(date +'%Y-%m-%d %H-%M-%S')" --no-reboot

LAMBDA

Using AWS Lambda with Scheduled Events

sid=Sid\$(date +%Y%m%d%H%M%S); aws lambda add-permission -statement-id \$sid --action 'lambda:InvokeFunction' --principal
events.amazonaws.com --source-arn
arn:aws:events:<region>:<arn>:rule/AWSLambdaBasicExecutionRole -function-name function:<awsents> --region <region>

Deleting Unused Volumes

for x in \$(aws ec2 describe-volumes --filters
Name=status, Values=available --profile <your_profile_name>|grep
VolumeId|awk '{print \$2}' | tr ', |"' ' '); do aws ec2 delete-volume
--region <region> --volume-id \$x; done

With "profile":

for x in \$(aws ec2 describe-volumes --filters
Name=status,Values=available --profile <your_profile_name>|grep
VolumeId|awk '{print \$2}' | tr ',|"' ' '); do aws ec2 delete-volume
--region <region> --volume-id \$x --profile <your_profile_name>;
done

REFERENCE:

https://github.com/eon01/AWS-CheatSheet

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AZURE CLI

RED/BLUE TEAM RECON/ADMIN CLOUD

Azure command-line interface (Azure CLI) is an environment to create and manage Azure resources.

Login in CLI

az login -u myemail@address.com

List accounts

az account list

Set subscription

az account set --subscription "xxx"

List all locations

az account list-locations

List all resource groups

az resource list