acm: certificates_expiry

Are certificates expiring soon?

Expired certificates can make services inaccessible for your customers.

Recommended to enable AutoRenew option or renew manually before certificates expiry

Region	Certificate	Message	Action
us-east-	somecompany.co ce79be85-8f98-4809-9632-f5500fbc7bc6	Certicate is valid for more than 3 months	All good
us-east-	somecompany.com ce79be85-8f98-4809-9632-f5500fbc7bc6	Certicate is valid for more than 3 months	All good
us-east-	somecompany.com ce79be85-8f98-4809-9632-f5500fbc7bc6	Certicate is valid for more than 3 months	All good
us-east-	somecompany.com ce79be85-8f98-4809-9632-f5500fbc7bc6	Certicate is valid for more than 3 months	All good

ebs: volumes_encrypted_at_rest

Are EBS	volumes encr	ypted at rest?
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Data at rest should always be encrypted

Recommended to enable encryption for EBS volumes

7 1				
Region	Volume	Message	Action	
	Unassigned I vol- 1234567890abcd	Encryption not enabled	Enable encryption at rest	

ec2: security_groups_open_to_world

Are there any security groups open to world?

Security group open to world posses serious security threat so we need to allow only intended parties to access

Recommended to configure security groups as tight as needed

Region	SecurityGroup	Message	Action
us- east-1		Security group is restricted to few IP ranges	All good
			Remove rule containing IP range: 0.0.0.0/0.

ec2: security_groups_wide_port_range

Are there any security groups with wide range of ports?

Security group should not expose wide range of port as it will be valuerable for port scan attacks

Recommended to expose only port used by application

Region	SecurityGroup	Message	Action
us-east-1	somecompany-migration sg- 12345acbde	Exposes only specific ports	All good
us-east-1	launch-wizard-1 sg- 12345acbde	Exposes only specific ports	All good

iam: admin count

Are there too many admins for the account?

It is hard to manage security goals when there too many admins as chances of mistakes increases

Recommended to have 2-3 admins per account

AdminUsers	Message	Action
user, user_somecompany	Account has 3 admins	All good

iam: password_policy

Is account password policy following best practices?

It is important to have secure password policy as leaked or weak passwords can give direct access to attackers

Recommended to have secure password policy

Option	Message	Action
Minimum Password Length	This has a recommended value	All good
Require Symbols	Already Enabled	All good
Require Numbers	Already Enabled	All good
Require Uppercase Characters	Already Enabled	All good
Require Lowercase Characters	Already Enabled	All good
Expire Passwords	Already Enabled	All good
Max Password Age	This has a recommended value	All good
Password Reuse Prevention	This has a recommended value	All good
Hard Expiry	This has a recommended value	All good

iam: root_user_access_keys_active

Are there any root user access keys active?

Root user access keys are unrestrictable hence shouldn't be used as damage will be determental if they gets leaked

Recommended to delete and never user root user access keys

User	Message	Action
<root_account></root_account>	Root user access keys are not active	All good

iam: cross_accounts_without_external_id

iam: cross_accounts_without_	_externar_ru		
Are there accounts without ExternalId?			
It is important to associate ExternalId for cross account role access			
Recommended to use ExternalI	d for third party accounts		
Roles	Message	Action	
somecompanyCMS_lambda_fu	Paticou nt undefined does not have ExternalId	Add an ExternalId	
somecompanyCMS_StreamLog	Alaa Alaa Alaa Alaa Alaa Alaa Alaa Alaa	Add an ExternalId	
somecompanyMigration	Account 393618672836 has ExternalId	All good	
somecompanyWebsite_lambda	Acceptant undefined does not have ExternalId	Add an ExternalId	
AWSServiceRoleForAmazonE	lasticseantchesternived does not have ExternalId	Add an ExternalId	
AWSServiceRoleForLambdaRo	Alocaton t undefined does not have ExternalId	Add an ExternalId	
AWS_Events_Invoke_Step_Fu	n Ationu<u>n</u>l 6&729545 3does not have ExternalId	Add an ExternalId	
basic-lambda-role-only-for- testing	Account undefined does not have ExternalId	Add an ExternalId	
CloudwatchLogsToS3Exporter	Account undefined does not have ExternalId	Add an ExternalId	
someappCloudwatchAPIGatew	aARodent undefined does not have ExternalId	Add an ExternalId	
someappDynamoDBAndESLar	n adaRole undefined does not have ExternalId	Add an ExternalId	
someappDynamoDBLambdaRo	Account undefined does not have ExternalId	Add an ExternalId	

someappElasticsearchLambdaR	Ae count undefined does not have ExternalId	Add an ExternalId
someappS3LambdRole	Account undefined does not have ExternalId	Add an ExternalId
CMSPreviewIdentityAuthCogn	i Accole nt undefined does not have ExternalId	Add an ExternalId
CognitoAccessForAmazonES	Account undefined does not have ExternalId	Add an ExternalId
Cognito_somecompanyWebsite	Prochustru Aduthin Roldoes not have ExternalId	Add an ExternalId
Cognito_somecompanyWebsite	ProchustruhdafütledRddes not have ExternalId	Add an ExternalId
Cognito_someappBackendteam	AuthorRobendefined does not have ExternalId	Add an ExternalId
Cognito_someappBackendteam	AccountRold efined does not have ExternalId	Add an ExternalId
Cognito_CMSProdPoolAuth_R	Account undefined does not have ExternalId	Add an ExternalId
Cognito_CMSProdPoolUnauth_	Rcde unt undefined does not have ExternalId	Add an ExternalId
Cognito_KibanaUserAuth_Role	Account undefined does not have ExternalId	Add an ExternalId
Cognito_KibanaUserUnauth_R	Account undefined does not have ExternalId	Add an ExternalId
PreviewsomeappAPILambdaRo	Account undefined does not have ExternalId	Add an ExternalId
PreviewsomeappBrightcoveVid	And plantdendefined does not have ExternalId	Add an ExternalId
PreviewWebsiteAPILambdaRo	Account undefined does not have ExternalId	Add an ExternalId
ProdsomecompanyCMS_lam	Adac functind efined does not have Externalld	Add an ExternalId
StepFunctionsRole	Account undefined does not have ExternalId	Add an ExternalId
Website-Preview-SMS-Role	Account undefined does not have ExternalId	Add an ExternalId
Website-Staging-SMS-Role	Account undefined does not have ExternalId	Add an ExternalId

	AnicoRnl aindefined does not have ExternalId	Add an ExternalId		
iam: users_access_keys_unused				

Are there	Are there any user access keys unused?			
It is important to delete unused or unneeded access keys as it reduces risk of misusing them				
Recomm	ended to delete unused user access keys regularly			
User	User Message Action			
user	User access key 1 is actively used	All good		
user	User access key 1 is actively used	All good		
user	User access key 1 is actively used	All good		
user	User access key 1 is actively used	All good		
user	User access key 1 is actively used	All good		
user	User access key 1 is actively used	All good		
user	User access key 1 is actively used	All good		
user	User access key 1 is actively used	All good		
user	User access key 1 is actively used	All good		

iam: users_access_keys_old

ann users_uecess_neys_ord					
Are user access keys are too old?					
It is important to rotate access keys regularly as it will reduce improper use					
Reco	mmended to rotate user access keys regularly				
User	ser Message Action				
user	User access key 1 is not rotated from last 180 days	Rotate user access key 1			
user	User access key 1 is not rotated from last 180 days	Rotate user access key 1			
user	User access key 1 is not rotated from last 180 days	Rotate user access key 1			
user	User access key 1 is not rotated from last 180 days	Rotate user access key 1			
user	User access key 1 is rotated within last 180 days	All good			
user	User access key 1 is rotated within last 180 days	All good			
user	User access key 1 is rotated within last 180 days	All good			
user	User access key 1 is rotated within last 180 days	All good			
user	User access key 1 is rotated within last 180 days	All good			

iam: user_accounts_mfa_enabled

iam. user_uceounts_imu_enubieu				
Are there any user ac	ccess keys unused?			
It is important to delemisusing them	ete unused or unneeded access keys	as it reduces risk of		
Recommended to del	lete unused user access keys regularl	y		
User Message Action		Action		
user	User account is MFA enabled	All good		
user	User account is not MFA enabled	Enable MFA for the user		
user_somecompany	User account is MFA enabled	All good		
user	User account is not MFA enabled	Enable MFA for the user		
user	User account is MFA enabled	All good		
user	User account is not MFA enabled	Enable MFA for the user		
user	User account is not MFA enabled	Enable MFA for the user		
user	User account is not MFA enabled	Enable MFA for the user		
user_tensult	User account is MFA enabled	All good		
user	User account is MFA enabled	All good		
user	User account is not MFA enabled	Enable MFA for the user		
user	User account is not MFA enabled	Enable MFA for the user		
s3_somecompany	User account is not MFA enabled	Enable MFA for the user		
user	User account is not MFA enabled	Enable MFA for the user		
user-someapp	User account is MFA enabled	All good		

trails: cloud_trails_bucket_access_logs			
Are access logs enabled for buckets containing Cloud Trails?			
Cloud trails contains important security information so we need to limit access to them and also enable access logs for such buckets			
Recommended to enable access logs for buckets containing Cloud Trails			
Bucket	Message	Action	
somecompany-logs	Access logs are not enabled	Enabled access logs	

trails: cloud_trails_bucket_deletes_mfa_enabled

Is deleting cloud trails protected by MFA?

Cloud trails deletes should be MFA enabled so that attacker won't able to delete them

Recommended to enable MFA for deleting Cloud Trails

Bucket Message Action

somecompany-logs Deletes are not MFA enabled Enable MFADelete

trails: cloud_trails_enabled

Is cloud trails enabled for account?

Cloud trails helps understand who did what and this is utmost important when a security breach happens

Recommended to enable cloud trails for all regions

Region	CloudTrails	Message	Action
us-east-2	someappTrails	Cloud trails are enabled	All good
us-east-1	someappTrails	Cloud trails are enabled	All good
us-west-1	someappTrails	Cloud trails are enabled	All good
us-west-2	someappTrails	Cloud trails are enabled	All good
ca-central-1	someappTrails	Cloud trails are enabled	All good
ap-south-1	someappTrails	Cloud trails are enabled	All good
ap-northeast-2	someappTrails	Cloud trails are enabled	All good
ap-southeast-1	someappTrails	Cloud trails are enabled	All good
ap-southeast-2	someappTrails	Cloud trails are enabled	All good
ap-northeast-1	someappTrails	Cloud trails are enabled	All good
eu-central-1	someappTrails	Cloud trails are enabled	All good
eu-west-1	someappTrails	Cloud trails are enabled	All good
eu-west-2	someappTrails	Cloud trails are enabled	All good
sa-east-1	someappTrails	Cloud trails are enabled	All good

trails: cloud_trails_encryption_at_rest

trails: cloud_trails_encryption_at_rest				
Are Cloud trails	s encrypted at re	st?		
Critical data she	ould always be e	ncrypted at rest		
Recommended	to enable encryp	tion at rest for CloudTrai	ls	
Region CloudTrail Message Action		Action		
us-east-2	someappTrails	Encryption not enabled	Enable encryption at rest	
us-east-1	someappTrails	Encryption not enabled	Enable encryption at rest	
us-west-1	someappTrails	Encryption not enabled	Enable encryption at rest	
us-west-2	someappTrails	Encryption not enabled	Enable encryption at rest	
ca-central-1	someappTrails	Encryption not enabled	Enable encryption at rest	
ap-south-1	someappTrails	Encryption not enabled	Enable encryption at rest	
ap-northeast-2	someappTrails	Encryption not enabled	Enable encryption at rest	
ap-southeast-1	someappTrails	Encryption not enabled	Enable encryption at rest	
ap-southeast-2	someappTrails	Encryption not enabled	Enable encryption at rest	
ap-northeast-1	someappTrails	Encryption not enabled	Enable encryption at rest	
eu-central-1	someappTrails	Encryption not enabled	Enable encryption at rest	
eu-west-1	someappTrails	Encryption not enabled	Enable encryption at rest	
eu-west-2	someappTrails	Encryption not enabled	Enable encryption at rest	
sa-east-1	someappTrails	Encryption not enabled	Enable encryption at rest	

trails: cloud_trails_global_service_events

Are global service events included in CloudTrails?

We need to enable this option to keep track of events from global service like IAM

Recommended to enable IncludeGlobalServiceEvents for CloudTrails

Region	CloudTrail	Message	Action
us-east-2	someappTrails	Global service events are included	All good
us-east-1	someappTrails	Global service events are included	All good
us-west-1	someappTrails	Global service events are included	All good
us-west-2	someappTrails	Global service events are included	All good
ca-central-1	someappTrails	Global service events are included	All good
ap-south-1	someappTrails	Global service events are included	All good
ap-northeast-2	someappTrails	Global service events are included	All good
ap-southeast-1	someappTrails	Global service events are included	All good
ap-southeast-2	someappTrails	Global service events are included	All good
ap-northeast-1	someappTrails	Global service events are included	All good
eu-central-1	someappTrails	Global service events are included	All good
eu-west-1	someappTrails	Global service events are included	All good
eu-west-2	someappTrails	Global service events are included	All good
sa-east-1	someappTrails	Global service events are included	All good

trails: cloud_trails_log_validation

Is log file validation enabled for cloud trails?

Cloud trails helps understand who did what so enabling log file validation keep their integrity intact

Recommended to enable log file validation for all cloud trails

Region	CloudTrail	Message	Action
us-east-2	someappTrails	Log validation is enabled for the cloud trail	All good
us-east-1	someappTrails	Log validation is enabled for the cloud trail	All good
us-west-1	someappTrails	Log validation is enabled for the cloud trail	All good
us-west-2	someappTrails	Log validation is enabled for the cloud trail	All good
ca-central-1	someappTrails	Log validation is enabled for the cloud trail	All good
ap-south-1	someappTrails	Log validation is enabled for the cloud trail	All good
ap-northeast-2	someappTrails	Log validation is enabled for the cloud trail	All good
ap-southeast-	someappTrails	Log validation is enabled for the cloud trail	All good
ap-southeast-2	someappTrails	Log validation is enabled for the cloud trail	All good
ap-northeast-1	someappTrails	Log validation is enabled for the cloud trail	All good
eu-central-1	someappTrails	Log validation is enabled for the cloud trail	All good
eu-west-1	someappTrails	Log validation is enabled for the cloud trail	All good
eu-west-2	someappTrails	Log validation is enabled for the cloud trail	All good
sa-east-1	someappTrails	Log validation is enabled for the cloud trail	All good