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AWS GDPR Readiness

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Automated GDPR Assessment for AWS.

For additional reference:

https://d1.awsstatic.com/whitepapers/compliance/GDPR_Compliance_on_AWS.pdf
(https://d1.awsstatic.com/whitepapers/compliance/GDPR_Compliance_on_AWS.pdf
)

Cloud Account

AWS Stage (726853184812) , All Regions

EXECUTIVE SUMMARY

SUMMARY OF TESTS PERFORMED

Tests Performed **498** Passed **33.73%** (168) Failed **66.27%** (330)

FAILED TESTS BY SEVERITY

Critical **High** **Medium** **Low** **Informational**
0 **261** **66** **3** **3**

SUMMARY OF RULES TESTED

Rules Performed **140** Passed **52.14%** (73) Failed **47.86%** (67)

Entities by type, Pass Vs Fail		
Entity Type	Passed	Failed
ELB (3)	0	3
List<CloudTrail> (1)	0	1
Instance (28)	0	28
Kinesis (0)	0	0
S3Bucket (20)	0	20
NetworkLoadBalancer (0)	0	0
IamUser (17)	1	16
Iam (1)	0	1
ApplicationLoadBalancer (1)	0	1
CloudTrail (1)	0	1
Region (16)	0	16
Lambda (7)	3	4
RDS (2)	0	2
IamPolicy (680)	679	1
KMS (4)	4	0
EFS (1)	0	1
EcsCluster (2)	2	0

Regions								
Name	Passed Tests	Failed Tests	Failed Entities	Failed Critical	Failed High	Failed Medium	Failed Low	Failed Informational
N. Virginia	460	38	14	0	36	2	0	0
Ohio	488	10	3	0	9	1	0	0
Oregon	479	19	9	0	16	3	0	0
N. California	491	7	2	0	6	1	0	0
Ireland	497	1	1	0	1	0	0	0
Frankfurt	497	1	1	0	1	0	0	0
Singapore	497	1	1	0	1	0	0	0
Sydney	497	1	1	0	1	0	0	0

Name	Passed Tests	Failed Tests	Failed Entities	Failed Critical	Failed High	Failed Medium	Failed Low	Failed Informational
Tokyo	497	1	1	0	1	0	0	0
Seoul	497	1	1	0	1	0	0	0
São Paulo	497	1	1	0	1	0	0	0
Mumbai	497	1	1	0	1	0	0	0
Canada Central	497	1	1	0	1	0	0	0
London	497	1	1	0	1	0	0	0
Paris	497	1	1	0	1	0	0	0
Stockholm	496	2	1	0	2	0	0	0

Failed Tests Summary

Rule Name	Severity	Tested	Relevant	Non Compliant
Instances without Inspector runs in the last 30 days	High	28	28	28
Instances outside of Europe	High	28	28	28
Use encryption for S3 Bucket write actions	High	20	20	20
S3 Buckets Secure Transport (SSL)	High	20	20	20
S3 Buckets outside of Europe	High	20	20	20
S3 bucket should have versioning MFA delete enabled	High	20	20	20
S3 Buckets Server Side Encryption At Rest	High	20	20	17
Ensure AWS Config is enabled in all regions	High	16	16	16
Ensure multi-factor authentication (MFA) is enabled for all IAM users that have a console password	High	17	15	15
Ensure S3 bucket access logging is enabled on the CloudTrail S3 bucket	High	20	7	7
Instance with unencrypted Oracle DB (TCP:2483) is potentially exposed to the public internet	High	28	8	4
Instance with unencrypted Mongo (TCP:27017) is potentially exposed to the public internet	High	28	8	4
Use encrypted storage for instances that might host a database.	High	28	4	4
Lambda Functions with Admin Privileges are not created	High	7	7	4
EC2 Instance - there shouldn't be any High level findings in Inspector Scans	High	28	28	4
Instance with administrative service: Remote Desktop (TCP:3389) is too exposed to the public internet	High	28	13	4
Instance with administrative service: SSH (TCP:22) is too exposed to the public internet	High	28	16	3
ELB is setup with SSL for secure communication	High	3	3	3
Instance with unencrypted Oracle DB (TCP:1521) is potentially exposed to the public internet	High	28	5	2
Instance with unencrypted Oracle DB (UDP:2483) is potentially exposed to the public internet	High	28	5	2
Instance with unencrypted Cassandra Thrift (TCP:9160) is potentially exposed to the public internet	High	28	5	2
Use Encrypted RDS storage	High	2	2	2
Instance with unencrypted Cassandra Monitoring (TCP:7199) is potentially exposed to the public internet	High	28	5	2
Instance with unencrypted Cassandra Client (TCP:9042) is potentially exposed to the public internet	High	28	5	2
Instance with unencrypted Cassandra OpsCenter Monitoring (TCP:61620) is potentially exposed to the public internet	High	28	5	2

Rule Name	Severity	Tested	Relevant	Non Compliant
Instance with unencrypted LDAP (UDP:389) is potentially exposed to the public internet	High	28	5	2
Instance with unencrypted Elastic search (TCP:9300) is potentially exposed to the public internet	High	28	5	2
Instance with unencrypted Elastic search (TCP:9200) is potentially exposed to the public internet	High	28	5	2
Instance with unencrypted Memcached (UDP:11211) is potentially exposed to the public internet	High	28	5	2
Instance with unencrypted Cassandra OpsCenter Website (TCP:8888) is potentially exposed to the public internet	High	28	5	2
Instance with unencrypted LDAP (TCP:389) is potentially exposed to the public internet	High	28	5	2
Instance with unencrypted Memcached (TCP:11211) is potentially exposed to the public internet	High	28	5	2
Instance with unencrypted Cassandra Internode Communication (TCP:7000) is potentially exposed to the public internet	High	28	5	2
Instance with unencrypted Redis (TCP:6379) is potentially exposed to the public internet	High	28	5	2
Ensure CloudTrail logs are encrypted at rest using KMS CMKs	High	1	1	1
ELB with unencrypted Oracle DB (TCP:2483) is potentially exposed to the public internet	High	3	1	1
Ensure VPC Flow Logging is Enabled in all Applicable Regions	High	16	16	1
Ensure HARDWARE MFA is enabled for the 'root' account	High	17	1	1
Ensure the S3 bucket used to store CloudTrail logs is not publicly accessible	High	20	7	1
ApplicationLoadBalancer with administrative service: Remote Desktop (TCP:3389) is too exposed to the public internet	High	1	1	1
Ensure that your Amazon EFS file systems are encrypted	High	1	1	1
Ensure VIRTUAL MFA is enabled for the "root" account	High	17	1	1
S3 bucket should have server access logging enabled	Medium	20	20	17
Credentials (with password enabled) unused for 90 days or more should be disabled	Medium	17	15	14
Ensure IAM policies are attached only to groups or roles	Medium	17	16	8
Credentials (with first activated accessKey) unused for 90 days or more should be disabled	Medium	17	4	4
Ensure first access key is rotated every 90 days or less	Medium	17	4	4
ELB is created with Access logs enabled	Medium	3	3	3
Ensure a log metric filter and alarm exist for AWS Config configuration changes	Medium	1	1	1
Ensure a log metric filter and alarm exist for changes to network gateways	Medium	1	1	1
Ensure a log metric filter and alarm exist for AWS Management Console authentication failures	Medium	1	1	1
Ensure a log metric filter and alarm exist for IAM policy changes	Medium	1	1	1
Ensure a log metric filter and alarm exist for disabling or scheduled deletion of customer created CMKs	Medium	1	1	1
Ensure CloudTrail trails are integrated with CloudWatch	Medium	1	1	1
Ensure a log metric filter and alarm exist for Management Console sign-in without MFA	Medium	1	1	1
Ensure a log metric filter and alarm exist for route table changes	Medium	1	1	1

Rule Name	Severity	Tested	Relevant	Non Compliant
Ensure second access key is rotated every 90 days or less	Medium	17	1	1
Ensure a log metric filter and alarm exist for unauthorized API calls	Medium	1	1	1
Ensure a log metric filter and alarm exist for VPC changes	Medium	1	1	1
Ensure a log metric filter and alarm exist for security group changes	Medium	1	1	1
Ensure a log metric filter and alarm exist for usage of 'root' account	Medium	1	1	1
Ensure a log metric filter and alarm exist for S3 bucket policy changes	Medium	1	1	1
Credentials (with second activated accessKey) unused for 90 days or more should be disabled	Medium	17	1	1
Ensure a log metric filter and alarm exist for changes to Network Access Control Lists (NACL)	Medium	1	1	1
Ensure IAM password policy expires passwords within 90 days or less	Low	1	1	1
Ensure a support role has been created to manage incidents with AWS Support	Low	680	1	1
Ensure a log metric filter and alarm exist for CloudTrail configuration changes	Low	1	1	1

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