**Mateo Salcedo Rodriguez**

**Reporte**

**\*La configuración de los Monkeys se encuentra en el archivo Config.txt adjunto**

2020-11-14 21:41:50.641 - INFO MonkeyRunner - [MonkeyRunner.java:56] Starting CHAOS Monkey

2020-11-14 21:41:50.860 - INFO MonkeyRunner - [MonkeyRunner.java:56] Starting VOLUME\_TAGGING Monkey

2020-11-14 21:41:50.860 - INFO Monkey - [Monkey.java:132] CHAOS Monkey Running ...

2020-11-14 21:41:50.863 - INFO AWSClient - [AWSClient.java:344] Getting all auto-scaling groups in region us-west-2.

2020-11-14 21:41:51.083 - INFO MonkeyRunner - [MonkeyRunner.java:56] Starting JANITOR Monkey

2020-11-14 21:41:51.084 - INFO Monkey - [Monkey.java:132] VOLUME\_TAGGING Monkey Running ...

2020-11-14 21:41:51.085 - INFO AWSClient - [AWSClient.java:658] Getting all EBS volumes in region us-west-2.

2020-11-14 21:41:51.314 - INFO Monkey - [Monkey.java:132] JANITOR Monkey Running ...

2020-11-14 21:41:51.314 - INFO MonkeyRunner - [MonkeyRunner.java:56] Starting CONFORMITY Monkey

2020-11-14 21:41:51.314 - INFO BasicJanitorMonkey - [BasicJanitorMonkey.java:102] Marking resources with 5 janitors.

2020-11-14 21:41:51.315 - INFO BasicJanitorMonkey - [BasicJanitorMonkey.java:112] Running ASG janitor for region us-west-2

2020-11-14 21:41:51.506 - INFO Monkey - [Monkey.java:132] CONFORMITY Monkey Running ...

2020-11-14 21:41:51.506 - INFO AWSClusterCrawler - [AWSClusterCrawler.java:83] Crawling clusters in region us-west-2

2020-11-14 21:41:51.506 - INFO AWSClient - [AWSClient.java:344] Getting all auto-scaling groups in region us-west-2.

2020-11-14 21:41:51.632 - INFO AWSClient - [AWSClient.java:365] Got 1 auto-scaling groups in region us-west-2.

2020-11-14 21:41:51.781 - INFO AWSClient - [AWSClient.java:671] Got 1 EBS volumes in region us-west-2.

2020-11-14 21:41:51.781 - INFO VolumeTaggingMonkey - [VolumeTaggingMonkey.java:146] Trying to tag 1 volumes for Janitor Monkey meta data.

2020-11-14 21:41:51.781 - INFO VolumeTaggingMonkey - [VolumeTaggingMonkey.java:265] Setting tag JANITOR\_META to 'instance=i-0236c0fc6717bf3c2;owner=;detachTime=' for volume vol-0b3c1c31fae4294c3

2020-11-14 21:41:51.781 - INFO VolumeTaggingMonkey - [VolumeTaggingMonkey.java:270] Volume tagging monkey is leashed. No real change is made to the volume.

2020-11-14 21:41:51.782 - INFO Monkey - [Monkey.java:138] Reporting what I did...

2020-11-14 21:41:51.835 - INFO BasicChaosMonkey - [BasicChaosMonkey.java:276] Group monkey-target [type ASG] enabled [prob 1.0]

2020-11-14 21:41:51.835 - INFO BasicChaosInstanceSelector - [BasicChaosInstanceSelector.java:65] Randomly selecting 0 from 1 instances, excluding i-0236c0fc6717bf3c2

2020-11-14 21:41:51.973 - INFO SimpleDBJanitorResourceTracker - [SimpleDBJanitorResourceTracker.java:117] Retrieved 0 resources from SimpleDB in domain SIMIAN\_ARMY for resource type ASG and state MARKED and region us-west-2

2020-11-14 21:41:51.973 - INFO AWSClient - [AWSClient.java:492] Getting all launch configurations in region us-west-2.

2020-11-14 21:41:52.160 - INFO AWSClient - [AWSClient.java:365] Got 1 auto-scaling groups in region us-west-2.

2020-11-14 21:41:52.161 - INFO AWSClusterCrawler - [AWSClusterCrawler.java:162] No owner email is found for cluster monkey-target in configuration simianarmy.conformity.cluster.monkey-target.ownerEmail or tag owner.

2020-11-14 21:41:52.162 - INFO AWSClient - [AWSClient.java:463] Getting all EC2 instances in region us-west-2.

2020-11-14 21:41:52.269 - INFO AWSClient - [AWSClient.java:622] Terminating instance i-0236c0fc6717bf3c2 in region us-west-2.

2020-11-14 21:41:52.580 - INFO AWSClient - [AWSClient.java:512] Got 1 launch configurations in region us-west-2.

2020-11-14 21:41:52.580 - INFO AWSClient - [AWSClient.java:344] Getting all auto-scaling groups in region us-west-2.

2020-11-14 21:41:52.816 - INFO AWSClient - [AWSClient.java:480] Got 1 EC2 instances in region us-west-2.

2020-11-14 21:41:52.817 - INFO SimpleDBConformityClusterTracker - [SimpleDBConformityClusterTracker.java:168] Query to retrieve clusters for regions us-west-2 is 'select \* from `SIMIAN\_ARMY` where cluster is not null and region in ('us-west-2') '

2020-11-14 21:41:53.059 - INFO BasicChaosMonkey - [BasicChaosMonkey.java:378] Terminated i-0236c0fc6717bf3c2 from group monkey-target [ASG] with ShutdownInstance

2020-11-14 21:41:53.060 - INFO Monkey - [Monkey.java:138] Reporting what I did...

CHAOS\_TERMINATION i-0236c0fc6717bf3c2 (groupType:ASG, groupName:monkey-target)

2020-11-14 21:41:53.310 - INFO AWSClient - [AWSClient.java:365] Got 1 auto-scaling groups in region us-west-2.

2020-11-14 21:41:53.313 - INFO AbstractJanitor - [AbstractJanitor.java:246] Looking for cleanup candidate in 1 crawled resources. LeashMode=false

2020-11-14 21:41:53.314 - INFO OldEmptyASGRule - [OldEmptyASGRule.java:112] ASG monkey-target has active instance.

2020-11-14 21:41:53.314 - INFO BasicJanitorRuleEngine - [BasicJanitorRuleEngine.java:101] Resource monkey-target is not marked as a cleanup candidate.

2020-11-14 21:41:53.314 - INFO BasicJanitorMonkey - [BasicJanitorMonkey.java:119] Marked 0 resources of type ASG in the last run.

2020-11-14 21:41:53.315 - INFO BasicJanitorMonkey - [BasicJanitorMonkey.java:121] Unmarked 0 resources of type ASG in the last run.

2020-11-14 21:41:53.315 - INFO BasicJanitorMonkey - [BasicJanitorMonkey.java:112] Running INSTANCE janitor for region us-west-2

2020-11-14 21:41:53.475 - INFO SimpleDBConformityClusterTracker - [SimpleDBConformityClusterTracker.java:180] Retrieved 1 clusters from SimpleDB in domain SIMIAN\_ARMY and regions us-west-2

2020-11-14 21:41:53.475 - INFO BasicConformityMonkey - [BasicConformityMonkey.java:141] Performing conformity check for 1 crawled clusters.

2020-11-14 21:41:53.475 - INFO ConformityRuleEngine - [ConformityRuleEngine.java:49] Running conformity rule InstanceInSecurityGroup on cluster monkey-target

2020-11-14 21:41:53.475 - INFO AWSClient - [AWSClient.java:465] Getting EC2 instances for 1 ids in region us-west-2.

2020-11-14 21:41:53.499 - INFO SimpleDBJanitorResourceTracker - [SimpleDBJanitorResourceTracker.java:117] Retrieved 0 resources from SimpleDB in domain SIMIAN\_ARMY for resource type INSTANCE and state MARKED and region us-west-2

2020-11-14 21:41:53.500 - INFO AWSClient - [AWSClient.java:429] Getting all auto-scaling instances in region us-west-2.

2020-11-14 21:41:54.146 - INFO AWSClient - [AWSClient.java:480] Got 1 EC2 instances in region us-west-2.

2020-11-14 21:41:54.147 - INFO InstanceInSecurityGroup - [InstanceInSecurityGroup.java:153] Instance i-0236c0fc6717bf3c2 is in VPC and is ignored.

2020-11-14 21:41:54.147 - INFO ConformityRuleEngine - [ConformityRuleEngine.java:49] Running conformity rule InstanceTooOld on cluster monkey-target

2020-11-14 21:41:54.147 - INFO AWSClient - [AWSClient.java:465] Getting EC2 instances for 1 ids in region us-west-2.

2020-11-14 21:41:54.151 - INFO AWSClient - [AWSClient.java:451] Got 1 auto-scaling instances.

2020-11-14 21:41:54.151 - INFO AWSClient - [AWSClient.java:463] Getting all EC2 instances in region us-west-2.

2020-11-14 21:41:54.815 - INFO AWSClient - [AWSClient.java:480] Got 1 EC2 instances in region us-west-2.

2020-11-14 21:41:54.816 - INFO ConformityRuleEngine - [ConformityRuleEngine.java:49] Running conformity rule SameZonesInElbAndAsg on cluster monkey-target

2020-11-14 21:41:54.816 - INFO AWSClient - [AWSClient.java:346] Getting auto-scaling groups for 1 names in region us-west-2.

2020-11-14 21:41:54.833 - INFO AWSClient - [AWSClient.java:480] Got 1 EC2 instances in region us-west-2.

2020-11-14 21:41:54.834 - INFO InstanceJanitorCrawler - [InstanceJanitorCrawler.java:105] instance i-0236c0fc6717bf3c2 has a ASG tag name monkey-target.

2020-11-14 21:41:54.834 - INFO AbstractJanitor - [AbstractJanitor.java:246] Looking for cleanup candidate in 1 crawled resources. LeashMode=false

2020-11-14 21:41:54.834 - INFO BasicJanitorRuleEngine - [BasicJanitorRuleEngine.java:101] Resource i-0236c0fc6717bf3c2 is not marked as a cleanup candidate.

2020-11-14 21:41:54.834 - INFO BasicJanitorMonkey - [BasicJanitorMonkey.java:119] Marked 0 resources of type INSTANCE in the last run.

2020-11-14 21:41:54.834 - INFO BasicJanitorMonkey - [BasicJanitorMonkey.java:121] Unmarked 0 resources of type INSTANCE in the last run.

2020-11-14 21:41:54.834 - INFO BasicJanitorMonkey - [BasicJanitorMonkey.java:112] Running EBS\_VOLUME janitor for region us-west-2

2020-11-14 21:41:55.025 - INFO SimpleDBJanitorResourceTracker - [SimpleDBJanitorResourceTracker.java:117] Retrieved 0 resources from SimpleDB in domain SIMIAN\_ARMY for resource type EBS\_VOLUME and state MARKED and region us-west-2

2020-11-14 21:41:55.025 - INFO AWSClient - [AWSClient.java:658] Getting all EBS volumes in region us-west-2.

2020-11-14 21:41:55.485 - INFO AWSClient - [AWSClient.java:365] Got 1 auto-scaling groups in region us-west-2.

2020-11-14 21:41:55.485 - INFO AWSClient - [AWSClient.java:346] Getting auto-scaling groups for 1 names in region us-west-2.

2020-11-14 21:41:55.686 - INFO AWSClient - [AWSClient.java:671] Got 1 EBS volumes in region us-west-2.

2020-11-14 21:41:55.686 - INFO AbstractJanitor - [AbstractJanitor.java:246] Looking for cleanup candidate in 1 crawled resources. LeashMode=false

2020-11-14 21:41:55.686 - INFO BasicJanitorRuleEngine - [BasicJanitorRuleEngine.java:101] Resource vol-0b3c1c31fae4294c3 is not marked as a cleanup candidate.

2020-11-14 21:41:55.687 - INFO BasicJanitorMonkey - [BasicJanitorMonkey.java:119] Marked 0 resources of type EBS\_VOLUME in the last run.

2020-11-14 21:41:55.687 - INFO BasicJanitorMonkey - [BasicJanitorMonkey.java:121] Unmarked 0 resources of type EBS\_VOLUME in the last run.

2020-11-14 21:41:55.687 - INFO BasicJanitorMonkey - [BasicJanitorMonkey.java:112] Running EBS\_SNAPSHOT janitor for region us-west-2

2020-11-14 21:41:55.894 - INFO SimpleDBJanitorResourceTracker - [SimpleDBJanitorResourceTracker.java:117] Retrieved 0 resources from SimpleDB in domain SIMIAN\_ARMY for resource type EBS\_SNAPSHOT and state MARKED and region us-west-2

2020-11-14 21:41:55.894 - INFO AWSClient - [AWSClient.java:725] Getting all AMIs in region us-west-2.

2020-11-14 21:41:56.158 - INFO AWSClient - [AWSClient.java:365] Got 1 auto-scaling groups in region us-west-2.

2020-11-14 21:41:56.158 - INFO BasicConformityMonkey - [BasicConformityMonkey.java:156] Cluster monkey-target is conforming

2020-11-14 21:41:56.158 - INFO BasicConformityMonkey - [BasicConformityMonkey.java:163] Saving cluster monkey-target

2020-11-14 21:41:56.365 - INFO SimpleDBConformityClusterTracker - [SimpleDBConformityClusterTracker.java:168] Query to retrieve clusters for regions us-west-2 is 'select \* from `SIMIAN\_ARMY` where cluster is not null and region in ('us-west-2') and isConforming = 'false''

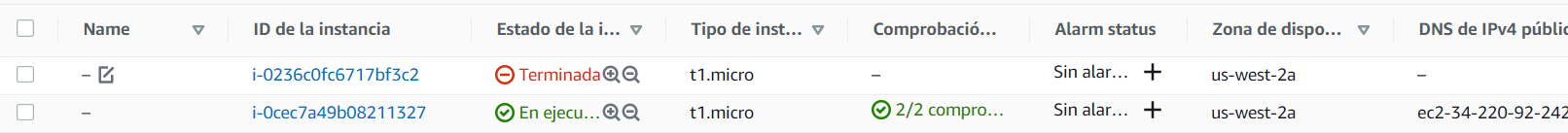
2020-11-14 21:41:56.575 - INFO SimpleDBConformityClusterTracker - [SimpleDBConformityClusterTracker.java:180] Retrieved 0 clusters from SimpleDB in domain SIMIAN\_ARMY and regions us-west-2

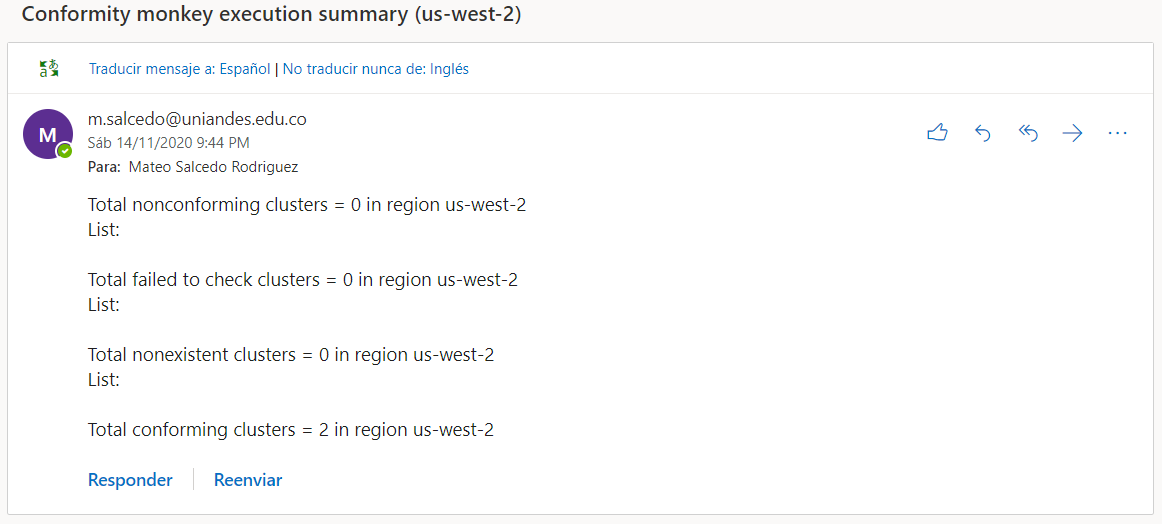
2020-11-14 21:41:57.358 - INFO AWSEmailNotifier - [AWSEmailNotifier.java:88] Email to m.salcedo@uniandes.edu.co, result id is 01010175c9c7d15b-0e241448-2640-444f-83f9-1bbc05736cf7-000000, subject is Conformity monkey execution summary (us-west-2)

2020-11-14 21:41:57.359 - INFO Monkey - [Monkey.java:138] Reporting what I did...

**API REST**

[{"monkeyType":"CHAOS","eventId":"i-0236c0fc6717bf3c2","eventType":"CHAOS\_TERMINATION","eventTime":1605408112078,"region":"us-west-2","groupName":"monkey-target","groupType":"ASG","chaosType":"ShutdownInstance"}]

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**Estrategias de ataque del Chaos Monkey**

* **simianarmy.chaos.shutdowninstance.enabled:** Indica si debe terminar la instancia que se encuentran en el Cluster.
* **simianarmy.chaos.blockallnetworktraffic.enabled:** Indica si debe simular que la instancia no recibe ningún tráfico proveniente de la web.
* **simianarmy.chaos.burncpu.enabled:** Indica si debe simular que la instancia esta usando toda la memoria disponible.
* **simianarmy.chaos.killprocesses.enabled:** Indica si debe matar todos los procesos que se encuentran en ejecución en la instancia.
* **simianarmy.chaos.networklatency.enabled:** Indica si debe simular que hay variaciones en la conexión a la web.
* **simianarmy.chaos.networkloss.enabled:** Indica si debe simular que hay perdida de conexión a la web.

**Reglas del Janitor Monkey**

* **simianarmy.janitor.rule.orphanedInstanceRule.enabled:** Indica si debe marcar a una instancia para ser eliminada posteriormente ya que esta no pertenece a un cluster (Instancias que no están en un auto scaling group).
* **simianarmy.janitor.rule.orphanedInstanceRule.instanceAgeThreshold:** Indica si una instancia debe ser eliminada posteriormente si esta ha estado activa durante el número de días definida en esta propiedad.
* **simianarmy.janitor.rule.orphanedInstanceRule.opsworks.parentage:** Indica si una instancia puede ser marcada para ser eliminada si esta pertenece a un grupo de configuración en AWS.
* **simianarmy.janitor.rule.untaggedRule.enabled:** Indica si una instancia debe ser marcada para ser eliminada si esta no tiene los tags requeridos.
* **simianarmy.janitor.rule.untaggedRule.requiredTags:** Tags requeridos en los recursos de AWS.
* **simianarmy.janitor.rule.untaggedRule.resources:** Recursos donde son necesarios los tags definidos anteriormente.
* **simianarmy.janitor.rule.suspendedASGRule.enabled:** Indica si debe indicar si un ASG debe ser eliminado al no tener instancias activas y/o tráfico en el balanceador de carga..
* **simianarmy.janitor.rule.suspendedASGRule.suspensionAgeThreshold:** Indica la cantidad de días que deben pasar para que ASG sea considerado para ser eliminado al no tener tráfico.

**Reglas del Conformity Monkey**

* **simianarmy.conformity.rule.SameZonesInElbAndAsg.enabled:** Indica si el Monkey puede revisar si no hay concordancia entre un ASG y un balanceador de carga de un Cluster.
* **simianarmy.conformity.rule.InstanceInSecurityGroup.enabled:** Indica si el Moneky puede verificar que todas las instancias dentro de un Cluster tienen el mismo grupo de seguridad.
* **simianarmy.conformity.rule.InstanceTooOld.enabled:** Indica si el Monkey debe revisar si una instancia ha estado activa por cierta cantidad de días.
* **simianarmy.conformity.rule.InstanceTooOld.instanceAgeThreshold:** Cantidad de días en la cual una instancia se considera noconforming.