Guía No. C4 – Recuperación de archivos para MV sin llave en EC2

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Nomenclatura de la guía:

En esta guía se ha utilizado el siguiente formato:

- Texto en rojo para la información importante a considerar, ejemplo: Para iniciar sesión gráfica utilice el siguiente comando **startx**
- Comandos con fuente courrier en negrita, (además se indica que usuario que debe realizarlos).
 root@front-end:~# ls -la
- Texto con resaltado en amarillo para la información que debe visualizar cuando realice algún procedimimiento o comando. root@front-end:~# mcedit /etc/resolv.conf search empresay.com.sv nameserver 192.168.2.1

I. Indicaciones generales

Objetivos de la guía

- Acceder a MV si se han perdido las llaves pem de dicha instancia
- Hacer respaldo de archivos de instancia sin llave hacia instancia temporal

1.1Recursos requeridos

Recursos requeridos:

- Tarjeta de crédito o débito
- Acceso a una línea telefónica.
- Un equipo de confianza (sin keyloggers, etc.) con una conexión segura (se utilizará tarjeta de crédito)
- Conexión a Internet sin restricción para descarga de paquetes.
- Cliente SSH: PuTTY o KiTTY
- Convertidor de claves pem: PuTTYGen

1.2 Descripción del escenario

En esta guía sólo se utilizará una instancia de Windows 2012 para extraer los datos de una instancia que o tiene llaves porque se han perdido.

IV. Recuperar datos de instancia si llaves pem

Para esta sección se necesita lo siguiente:

- Crear otra instancia igual a la MV de la cual se ha perdido las llaves.
- Salida a Internet

4.1 Detener la instancia de la cual se han perdido las llaves

Paso 1 – Ingresar a la ficha Instances

Paso 2 – Copiar datos de la instancia detenida

- 1. Name: win2012_core_dom01
- 2. Instance ID: i-04ba87931440c9f69
- 3. Instance Type: t2.micro
- 4. Availability Zone: us-west-2a
- 5. Security Groups: gpo_dom_balance
- 6. VPC ID: vpc-7e72f51a
- 7. Subnet ID: **subnet-2844c74c**
- 8. AMI ID: Windows_Server-2012-R2_RTM-English-64Bit-Base-2016.06.15 (ami-8d0acfed)
- 9. Platform: windows

Paso 3 – Crear Instancia nueva

- 3.1 Dar Clic e menú Instances
- 3.2 Dar clic en el botó Launch Instance

🏹 AWS 🗸 Ser	vices 🗸 Edit 🗸			
EC2 Dashboard Events Tags Reports Limits	Launch Instance Connect Q Filter by tags and attributes Name •	Actions 👻 or search by keyword	Instance Type 👻	Availability Zoo
INSTANCES	win2012_core_dom01	i-04ba87931440c9f69	t2.micro	us-west-2a
Instances	ser02_win2012	i-076f547ad2054b597	t2.micro	us-west-2a
Spot Requests	ubuguia	i-0c0fc2b021c73b33e	t1.micro	us-west-2b
Reserved Instances				
Scheduled Instances				
Dedicated Hosts				

Paso 4 – Completar asistente par creación de nueva instancia

4.1 Escoger la misma AMI de la MV que no tiene llaves

Seleccione el AMI de la Instancia a recuperar.

AMI ID: Windows_Server-2012-R2_RTM-English-64Bit-Base-2016.06.15 (ami-8d0acfed)



4.2 Definir el tipo de instancia

Acorde a la máquina a recuperar, Instance Type: t2.micro

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🎁 AWS 🗸 Ser	T AWS - Services - Edit - Oregon - Sur										
1. Choose AMI 2. Choose	Instance Type 3. C	onfigure Instance	4. Add Storage	5. Tag Instance	6. Conf	figure Securit	y Group)			
Step 2: Choose	an Instance	Гуре					5		^		
Filter by: All instance t	types 👻 Curr	ent generation	✓ Show/Hid	e Columns							
Currently selected: t2.m	icro (Variable ECUs, [,]	I vCPUs, 2.5 GHz	, Intel Xeon Famil	y, 1 GiB memory, Ef	3S only)					
Family	- Туре -	vCPUs (i) -	Memory (GiB)	(GB) (i)	e 🗸	EBS-Optin Available	nized (i)	÷ P	еґ		
General purpose	t2.nano	1	0.5	EBS only		-		L	.0\		
General purpose	t2.micro Free tier eligible	1	1	EBS only		-		L	.0\		
General purpose	t2.small	1	2	EBS only		-		L	.0\		
General purpose	t2.medium	2	4	EBS ONLY				L	.0\ v		
	Cancel Previous Review and Launch Next: Configure Instance Details										
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4.3 Definir las opciones de Red Acorde a la máquina virtual a recuperar: VPC ID: **vpc-7e72f51a** Availability Zone: **us-west-2a**

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T AWS - Services - Edit - prueba1 -	Oregon 🕶	Supp					
1. Choose AMI 2. Choose Instance Type 3. Configure Instance 4. Add Storage 5. Tag Instance 6. Configure Securit	y Group						
Step 3: Configure Instance Details Configure the instance to suit your requirements. You can launch multiple instances from the same AMI, request Spot instances to take advantage of the lower pricing, assign an access management role to the instance, and more. Number of instances () Launch into Auto Scaling Group () Purchasing option ()							
Network i vpc-7e72f51a (172.31.0.0/16) (default) Create new VPC							
Subnet Image: Control of the subnet in any Availability Zon in any Availability Zon in any Availability Zon in any Availability Zon is subnet-da474782(172.31.0.0/20) Default in us-west-2a subnet-284474(472 31.46.0/20) Default in us-west-2a subnet-3aff5a4c(172.31.32.0/20) Default in us-west-2a ancel Create new subnet Subnet-3aff5a4c(172.31.32.0/20) Default in us-west-2a subnet-3aff5a4c(172.31.32.0/20) Default in us-west-2a Ancel Previous Review and Launch Network in any Availability Zon in any Zon in a	xt: Add Stor;	vage					
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4.4 Definir las opciones de almacenamiento

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T AWS - Services - Edit - prueb	a1 • Ore	egon 👻 Su
1. Choose AMI 2. Choose Instance Type 3. Configure Instance 4. Add Storage 5. Tag Instance 6. Configure Storage	ecurity Group)
Step 4: Add Storage Your instance will be launched with the following storage device settings. You can attach additional EBS volumes and volumes to your instance, or edit the settings of the root volume. You can also attach additional EBS volumes after lau but not instance store volumes. Learn more about storage options in Amazon EC2.	instance st unching an	ore ^ instance,
Volume Type (i) Device (i) Snapshot (i) Size (GiB) (i) Volume Type (i) IOPS (i) Throughput (MB/s) (i)	Delete on Termination	on Enci
Root /dev/sda1 snap-1baab85d 30 General Purpose 5 V 100 / 3000 N/A	\checkmark	Not E
Add New Volume		
Free tier eligible customers can get up to 30 GB of EBS General Purpose (SSD) or Magnetic storage. Les nord	e about fre	e v
Cancel Previous Review and Launch	Next: Tag	Instance
Feedback Senglish © 2008 - 2016, Amazon Web Services, Inc. or its affiliates. All rights reserved. Privacy	Policy Te	erms of Use

4.5 Definir el nombre de la instancia

Para este caso MV para recuperación

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🎁 AWS 🗸 Services 🗸 I	Edit 🗸				prueba1 🕶	Oregon 🕶	Supp
1. Choose AMI 2. Choose Instance Type	3. Configure Instance	4. Add Storage	5. Tag Instance	6. Confi	gure Security	Group	
Step 5: Tag Instance A tag consists of a case-sensitive key-valu about tagging your Amazon EC2 resource Key (127 characters maximum)	ue pair. For example, you o s.	could define a ta Value (255	ag with key = Nam i characters maxin	e and valu num)	e = Webser	ver. Learn n	nore
Name		MV para recue	eración				⊗
Create Tag (Up to 10 tags maximum	m)						
	Cancel Previ	ous Revie	w and Launch	Next: C	onfigure S	ecurity Gro	oup
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4.6 Definir las opciones de seguridad De la MV a recuperar: Security Groups: **gpo_dom_balance**

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1. Choose AMI 2. Choose Instance Type 3. Configure Instance 4. Add Storage 5. Tag Instance 6. Configure Security Group Step 6: Configure Security group: Ocreate a new security group:								
	●Select	an existing security group						
Security Group ID	Name	Description		Actions				
sg-b43eb3d2	acceso_via_red	launch-wizard-1 created 2016-06-26T08:	10:55.185-06:00	Copy to new				
sg-8b6103ed	default	default VPC security group		Copy to new				
sg-807b14e6	gpo_dom_balance	launch-wizard-5 created 2016-07-10T15:	35:06.237+02:00	Copy to new				
sg-a9a67ecf	gpo_empresay	Encargado de ejecutar la MV		Copy to new				
sg-60c14d06	launch-wizard-1	launch-wizard-1 created 2016-06-26T09:	18:19.393-06:00	Copy to new				
sg-99dd51ff	launch-wizard-2	launch-wizard-2 created 2016-06-26T09:	29:09.132-06:00	Copy to new				
Туре ()	Protocol (i)	Port Range (j)	Source ()				
HTTP	TCP	80	0.0.0/0					
RDP	TCP	3389	0.0.0.0					
		Cance	Previous	Review and La	aunch			
🗨 Feedback 🔇 Engl	lish _{com/ec2/v2} © 2008 - 2016	, Amazon Web Services, Inc. or its affiliates. All righ	ts reserved. Privac	y Policy Terms	ofUse			

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4.7 Resumen de opciones para la nueva instancia



4.8 Crear nuevo par de llaves.

Utilice el valor: nueva_llave

A key pair consists of a public key that AWS stores, and a private key file that you store. Together, they allow you to connect to your instance securely. For Windows AMIs, the private key file is required to obtain the password used to log into your instance. For Linux AMIs, the private key file allows you to securely SSH into your instance. Sor Linux AMIs, the private key file allows you to securely SSH into your instance. Sor Linux AMIs, the private key file allows you to securely SSH into your instance. Sor Linux AMIs, the private key file allows you to securely SSH into your instance. Sor Linux AMIs, the private key file allows you to securely SSH into your instance. Learn more about removing existing key pairs from a public AMI. Create a new key pair Rey pair name nueva_llave You have to download the private key file (*.pem file) before you can continue. Store it in a secure and accessible location. You will not be able to download the file again after it's created. Cancel Launch Instances	Select	an existing key pair or create a new key pair	×
Note: The selected key pair will be added to the set of keys authorized for this instance. Learn more about removing existing key pairs from a public AMI. Create a new key pair New pair name nueva_llave Download Key Pair Vou have to download the private key file (*.pem file) before you can continue. Store it in a secure and accessible location. You will not be able to download the file again after it's created. Cancel Launch Instances	A key pair they allow to obtain securely \$	r consists of a public key that AWS stores, and a private key file that you store. Tog y you to connect to your instance securely. For Windows AMIs, the private key file is re the password used to log into your instance. For Linux AMIs, the private key file allows SSH into your instance.	gether, equired s you to
Create a new key pair Create a new key pair Key pair name nueva_llave Download Key Pair Vou have to download the private key file (*.pem file) before you can continue. Store it in a secure and accessible location. You will not be able to download the file again after it's created. Cancel Launch Instances	Note: The	e selected key pair will be added to the set of keys authorized for this instance. Learn	more
Create a new key pair Key pair name	about ren		
Interve_llave Download Key Pair Image: Store it in a secure and accessible location. You will not be able to download the file again after it's created. Cancel Launch Instances	Crea		~
Download Key Pair Image: Store it in a secure and accessible location. You will not be able to download the file again after it's created. Cancel Launch Instances		a llavel	
You have to download the private key file (*.pem file) before you can continue. Store it in a secure and accessible location. You will not be able to download the file again after it's created. Cancel Launch Instances		Download Key Pa	air
Store it in a secure and accessible location. You will not be able to download the file again after it's created. Cancel Launch Instances		You have to download the private key file (* pem file) before you can continue	
Tile again after it's created. Cancel Launch Instances		Store it in a secure and accessible location. You will not be able to download to	he
Cancel Launch Instances		file again after it's created.	
Cancel Launch Instances			
Cancer		Canada Laurah Insta	
		Cancel	lices

4.9 Definir la ruta de almacenamiento

No olvidar la ruta ni perder la llave.



4.10 Ejecutar la instancia

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🎁 AWS 🗸 Services 🛩 Edit 🗸				prue	ba1 🕶	Oreg	on 👻 S	upport
Launch Status								
Your instances are launching, and it may take a few hours on your new instances will start immediately a	minutes until they an ind continue to accru	e in the running state, wi e until you stop or termina	hen they wi ate your ins	ll be re tances	ady for	you to	use. Usaj	ge Î
Click View Instances to monitor your instances' sta Instances screen. Find out how to connect to your	atus. Once your insta instances.	nces are in the running s	state, you c	an cor	nnect t	o them f	rom the	
 Here are some helpful resources to 	get you started							
	Amazon EC2:	User Guide						
How to connect to your Windows instance	Amazon EC2:	Microsoft Windows Guide						
Learn about AWS Free Usage Tier	Amazon EC2:	Discussion Forum						
While your instances are launching you can also								
Create status check alarms to be notified when t	hese instances fail st	atus checks. (Additional c	harges ma	y apply	()			
Create and attach additional EBS volumes (Add	itional charges may a	ipply)						
Manage security groups						View Ir	istances	5 V
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Paso 5 – Asignar el disco duro de la instancia a recuperar a la nueva instancia creada

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🎁 AWS 🗸 Servio	es v Edit v pruebal v Oregon v Su	ipport 🕶
Dedicated Hosts	Create Volume Actions 👻 😋 🔂	* Ø
IMAGES AMIs	Q Filter by tags and attributes or search by keyword	4 > >
Bundle Tasks	Volume ID v Size v Availability Zone V Attachment Information	- Monitor
	vol-941b9e1d 30 GiB us-west-2a i-0e58450683e067c8a (MV para recueración) :/dev/sda1 (attached	
Volumes	vol-93d7781a 30 GiB us-west-2a i-076f547ad2054b597 (ser02 win2012):/dev/sda1 (attached)	
Snapshots	vol-59ee41d0 30 GiB us-west-2a i-04ba87931440c9f69 (win2012_core_dom01):/dev/sda1 (attached	
	vol-f7aaad45 8 GiB us-west-2b i-0c0fc2b021c73b33e (ubuguia):/dev/sda1 (attached)	
NETWORK & SECURITY		
Security Groups		
Elastic IPs		
Placement Groups	<	>
Key Pairs	Volumes: vol-941b9e1d	
Network Interfaces		
I OAD BALANCING	Description Status Checks Monitoring Tags	
Load Balancers	Volume ID vol-941b9e1d Alarm status None	
	Size 30 GiB Snapshot snap-0f68a7931	99a1450d
aunch	Created July 17, 2016 at Availability Zone us-west-2a	~
		>
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5.1 Identificar los ID del disco duro de la instancia a recuperar y de la nueva instancia

Instancia a recuperar: vol-941 b9e1d 30 GiB us-west-2a

i-0e58450683e067c8a (MV para recueración):/dev/sda1 (attached)

Instancia a anexar disco duro de la instancia a recuperar: vol-59ee41d0 30 GiB us-west-2a i-04ba87931440c9f69 (win2012_core_dom01):/dev/sda1 (attached)

5.2 Definir alias a los ID de los volúmenes (discos duros virtuales)

Definir para cada volumen un alias descriptivo

- Para el volumen de la instancia a recuperar: HDD a recuperar
- Para el volumen de la instancia temporal: HDD temporal

Q	Filter by tags and att				
	Name -	Volume ID 👻	Size 👻	Availabilit -	Attachment Information -
	HHD temporal	vol-941b9e1d	30 GiB	us-west-2a	i-0e58450683e067c8a (MV para recueración):/dev/sda1 (attached)
		vol-93d7781a	30 GiB	us-west-2a	i-076f547ad2054b597 (ser02_win2012):/dev/sda1 (attached)
	HDD a recuperar	vol-59ee41d0	30 GiB	us-west-2a	i-04ba87931440c9f69 (win2012_core_dom01):/dev/sda1 (attached)
		vol-f7aaad45	8 GiB	us-west-2b	i-0c0fc2b021c73b33e (ubuguia):/dev/sda1 (attached)

5.3 Desasociar volumen de la instancia a recuperar

Seleccione el volumen de la instancia a recuperar. Dar clic en botó "**Actios**" Seleccionar opción **Deteach Volumen**

Create Volume	Actions		e 6	• •	2
Q , Filter by tags an	Delete Volume Attach Volume		② K < 1 to 4 of	f 4 🔿	>
Name	Detach Volume	Availabilit	Attachment Information		
HHD temporal	Create Snapshot	us-west-2a	i-0e58450683e067c8a (MV para recueración):/dev/sda	1 (attach	red)
	Change Auto-Enable IO Sett	ting us-west-2a	i-076f547ad2054b597 (ser02_win2012):/dev/sda1 (atta	ched)	
HDD a recupe	Add/Edit Tags	us-west-2a	i-04ba87931440c9f69 (win2012_core_dom01):/dev/sda	1 (attach	ned)
	vol-f7aaad45 8 GiE	3 us-west-2b	i-0c0fc2b021c73b33e (ubuguia):/dev/sda1 (attached)		

5.4 Confirme pantalla de desasociación



Nota la instancia a Recuperar debe estar detenida (stop)

5.5 Asociar volumen a recuperar en la instancia temporal

Seleccionar el volumen de la instancia a recuperar. Dar clic en botó "Actios" Seleccionar opción Attach Volumen



5.6 Definir el ID de la instancia temporal

Escriba el ID de la instancia temporal o seleccione el ID de la lista

Attach Volu	ne	×
Volume Instance	 vol-59ee41d0 (HDD a recuperar) in us-west-2a i-0e58450683e067c8a 	in us-west-2a
Device	(i) xvdf Windows Devices: xvdf through xvdp	Cancel Attach

Dar un clic en el botón" Attach"

5.6 Verificar que se haya agregado a la ID de instancia temporal

Q Filter by tags and a	ttributes or search by	keyword	I< ≤ 1 to 4 of 4
Name	• Volume ID •	Attachment Information	- Monitoring
HHD temporal	vol-941b9e1d	i-0e58450683e067c8a (MV para recueración):/dev/sda1 (attach	ed)
	vol-93d7781a	i-076f547ad2054b597 (ser02_win2012):/dev/sda1 (attached)	
HDD a recuperar	vol-59ee41d0	i-0e58450683e067c8a (MV para recueración):xvdf (attached)	
	vol-f7aaad45	i-0c0fc2b021c73b33e (ubuguia):/dev/sda1 (attached)	

Paso 6 – Ingresar a la instancia temporal

6.1 Conectarse a la instancia virtual temporal

🎁 AWS 🗸 Ser	vices 🗸 Edit 🗸	prueba1 👻 Or
EC2 Dashboard A Events Tags	Launch Instance Connect Q. Filter by tags and attributes or se Connect Get Windows Password	9 K <
Limits	□ Name Instance ID Launch More Like This	▼ Availability Zone ▼ Instance State ▼
	win2012_cor i-04ba87931	us-west-2a 🥥 stopped
Instances	ser02_win2012 i-076f547ad2 Image	us-west-2a 🥚 stopped
Spot Requests	ubuguia i-0c0fc2b02 Networking	us-west-2b 🥥 stopped
Reserved Instances	MV para rec i-0e5845068 CloudWatch Monitoring	▶ us-west-2a 🥥 running
Scheduled Instances		-
Dedicated Hosts	<	

6.2 Abra el Administrador de discos

6.3 Active el disco duro de la instancia a recuperar.

Dar clic derecho en Disk1 Seleccionar la opción Online

_ 🗆 🗙 **Disk Management** File Action View Help (~ ~ 10) 📅 🚺 👔 🕼 Volume File System % Free Layout Туре Status Capacity Free Spa... Simple Basic NTFS Healthy (S... 350 MB 74 MB 21 % Healthy (B... 29.66 GB NTFS 11.04 GB 🗀 (C:) Simple Basic 37 % Disk 0 Basic (C:) 30.00 GB 350 MB NTFS 29.66 GB NTFS Online Healthy (System, Active, Primary Parti Healthy (Boot, Page File, Crash Dump, Primary Partition) 🐨 Disk 1 Basic 30. Online 29.66 GB Of Properties Help Unallocated Primary partition

Disk 0 Basic 30.00 GB Online	350 MB NTFS Healthy (System, Active, Primary Partř	(C:) 29.66 GB NTFS Healthy (Boot, Page File, Crash Dump, Primary Partition)
Disk 1 Basic 30.00 GB Online	(D:) 350 MB NTFS Healthy (Active, Primary Partition)	(E:) 29.66 GB NTFS Healthy (Primary Partition)

6.4 Copiar los archivos de la instancia a recuperar a la instancia temporal

Public DNS	ec2-54-201-254-70.us-west-2.compute.amazonaws.com
User name	Administrator
Password	zaxZW;nfqN11

Nota: Para cambiar la contrase; a se puede modificar la base de datos SAM ubicada en C:/Windows/sysrte32/config