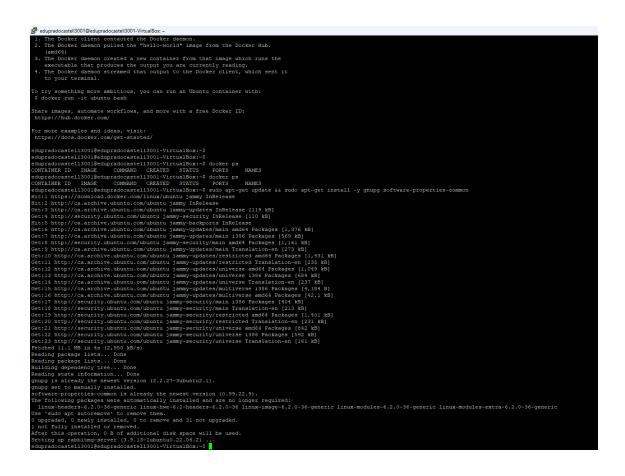
## Terraform

### Ubuntu 22.04 Run my VirtualBox.

🚰 Ubuntu_LAb [Executando] - Oracle VM VirtualBox				- 0 ×
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		edupradocastell3001@edupradocastell3001-VirtualBox: ~	Q = • ×	
	Client: Docker AFI version: AFI version: AFI version: AFI version: Context: Context: Context: Context: Context: Context: Context: Context: Context: Context: Context: Context: Context: Context: Context: Context: Context: Context: Context: Context: Context: Context: Context: Context: Context: Context: Context: Context: Context: Context: Context: Context: Context: Context: Context: Context: Context: Context: Context: Context: Context: Context: Context: Context: Context: Context: Context: Context: Context: Context: Context: Context: Context: Context: Context: Context: Context: Context: Context: Context: Context: Context: Context: Context: Context: Context: Context: Context: Context: Context: Context: Context: Context: Context: Context: Context: Context: Context: Context: Context: Context: Context: Context: Context: Context: Context: Context: Context: Context: Context: Context: Context: Context: Context: Context: Context: Context: Context: Context: Context: Context: Context: Context: Context: Context: Context: Context: Context: Context: Context: Context: Context: Context: Context: Context: Context: Context: Context: Context: Context: Context: Context: Context: Context: Context: Context: Context: Context: Context: Context: Context: Context: Context: Context: Context: Context: Context: Context: Context: Context: Context: Context: Context: Context: Context: Context: Context: Context: Context: Context: Context: Context: Context: Context: Context: Context: Context: Context: Context: Context: Context: Context: Context: Context: Context: Context: Context: Context: Context: Context: Context: Context: Context: Context: Context: Context: Context: Context: Context: Context: Context: Context: Context: Context: Context: Context: Context: Context: Context: Context: Context: Context: Context: Context: Context: Context: Context: Cont	Hotseproducestell3001-VirtualBox:-\$ docker version Taylor = Community 1.44 90.12.16 4.4571 1.101/2005 effaults 1.44 (initium version 1.24) 91.24.5 1.4575 1.4575 1.4575 1.4575 1.4575 1.4575 1.4575 1.4575 1.4575 1.4575 1.4575 1.4575 1.4575 1.4575 1.4575 1.4575 1.4575 1.4575 1.4575 1.4575 1.4575 1.4575 1.4575 1.4575 1.4575 1.4575 1.4575 1.4575 1.4575 1.4575 1.4575 1.4575 1.4575 1.4575 1.4575 1.4575 1.4575 1.4575 1.4575 1.4575 1.4575 1.4575 1.4575 1.4575 1.4575 1.4575 1.4575 1.4575 1.4575 1.4575 1.4575 1.4575 1.4575 1.4575 1.4575 1.4575 1.4575 1.4575 1.4575 1.4575 1.4575 1.4575 1.4575 1.4575 1.4575 1.4575 1.4575 1.4575 1.4575 1.4575 1.4575 1.4575 1.4575 1.4575 1.4575 1.4575 1.4575 1.4575 1.4575 1.4575 1.4575 1.4575 1.4575 1.4575 1.4575 1.4575 1.4575 1.4575 1.4575 1.4575 1.4575 1.4575 1.4575 1.4575 1.4575 1.4575 1.4575 1.4575 1.4575 1.4575 1.4575 1.4575 1.4575 1.4575 1.4575 1.4575 1.4575 1.4575 1.4575 1.4575 1.4575 1.4575 1.4575 1.4575 1.4575 1.4575 1.4575 1.4575 1.4575 1.4575 1.4575 1.4575 1.4575 1.4575 1.4575 1.4575 1.4575 1.4575 1.4575 1.4575 1.4575 1.4575 1.4575 1.4575 1.4575 1.4575 1.4575 1.4575 1.4575 1.4575 1.4575 1.4575 1.4575 1.4575 1.4575 1.4575 1.4575 1.4575 1.4575 1.4575 1.4575 1.4575 1.4575 1.4575 1.4575 1.4575 1.4575 1.4575 1.4575 1.4575 1.4575 1.4575 1.4575 1.4575 1.4575 1.4575 1.4575 1.4575 1.4575 1.4575 1.4575 1.4575 1.4575 1.4575 1.4575 1.4575 1.4575 1.4575 1.4575 1.4575 1.4575 1.4575 1.4575 1.4575 1.4575 1.4575 1.4575 1.4575 1.4575 1.4575 1.4575 1.4575 1.4575 1.4575 1.4575 1.4575 1.4575 1.4575 1.4575 1.4575 1.4575 1.4575 1.4575 1.4575 1.4575 1.4575 1.4575 1.4575 1.4575 1.4575 1.4575 1.4575 1.4575 1.4575 1.4575 1.4575 1.4575 1.4575 1.4575 1.4575 1.4575 1.4575 1.4575 1.4575 1.4575 1.4575 1.4575 1.4575 1.4575 1.4575 1.4575 1.4575 1.4575 1.4575 1.4575 1.4575 1.		
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Frist steps for installation Terraform.



🚰 edupradocastell3001@edupradocastell3001-VirtualBox: ~
$\frac{1}{2}$ edupradocastell3001 $\frac{1}{2}$ edupradocastell3001-VirtualBox:~ $\hat{s}$ PuTTYPuTTYPuTTYPuTTYPuTTYPuTTYPuTTYPuTT
edupradocastell3001@edupradocastell3001-VirtualBox:-\$ sudo apt update
sudo apt upgrade
sudo apt install gnupg software-properties-common curl
Hit:1 http://ca.archive.ubuntu.com/ubuntu jammy InRelease
Hit:2 https://download.docker.com/linux/ubuntu jammy InRelease
Hit:3 http://ca.archive.ubuntu.com/ubuntu jammy-updates InRelease
Hit:4 http://ca.archive.ubuntu.com/ubuntu jammy-backports InRelease
Hit:5 http://security.ubuntu.com/ubuntu jammy-security InRelease
Reading package lists Done
Building dependency tree Done
Reading state information Done
31 packages can be upgraded. Run 'apt listupgradable' to see them.
Reading package lists Done
Building dependency tree Done
Reading state information Done
Calculating upgrade Done
The following packages were automatically installed and are no longer required:
linux-headers-6.2.0-36-generic linux-hwe-6.2-headers-6.2.0-36 linux-image-6.2.0-36-generic linux-modules-6.2.0-36-generic linux-modules-extra-6.2.0-36-generic
Use 'sudo apt autoremove' to remove them.
The following NEW packages will be installed:
linux-headers-6.5.0-18-generic linux-hwe-6.5-headers-6.5.0-18 linux-image-6.5.0-18-generic linux-modules-6.5.0-18-generic linux-modules-extra-6.5.0-18-generic
The following packages have been kept back:
base-files language-pack-en language-pack-en-base language-pack-gnome-en language-pack-gnome-en-base libglmesa0 libgbml libgll-mesa-dri libglapi-mesa libglx-mesa0 libxatracker2 mesa-vulkan-
python3-distupgrade qemu-block-extra qemu-system-common qemu-system-data qemu-system-gui qemu-system-x86 qemu-utils ubuntu-release-upgrader-core ubuntu-release-upgrader-gtk unzip
The following packages will be upgraded:
dns-root-data linux-generic-hwe-22.04 linux-headers-generic-hwe-22.04 linux-image-generic-hwe-22.04 login ovmf passwd
7 upgraded, 5 newly installed, 0 to remove and 24 not upgraded.
6 standard LTS security updates
Need to get 142 MB of archives.
After this operation, 723 MB of additional disk space will be used.
Do you want to continue? [Y/n] y
Get:1 http://ca.archive.ubuntu.com/ubuntu jammy-updates/main amd64 login amd64 1:4.8.1-2ubuntu2.2 [188 kB]
Get:2 http://ca.archive.ubuntu.com/ubuntu jammy-updates/main amd64 passwd amd64 1:4.8.1-2ubuntu2.2 [768 kB]
Get:3 http://ca.archive.ubuntu.com/ubuntu jammy-updates/main amd64 dns-root-data all 2023112702~ubuntu0.22.04.1 [5,136 B]
Get:4 http://ca.archive.ubuntu.com/ubuntu jammy-updates/main amd64 linux-modules-6.5.0-18-generic amd64 6.5.0-18.18~22.04.1 [25.5 MB]
Get:S http://ca.archive.ubuntu.com/ubuntu jammy-updates/main amd64 linux-image-6.5.0-18-generic amd64 6.5.0-18.18-22.04.1 [14.0 MB]
28% [5 linux-image-6.5.0-18-generic 10.5 MB/14.0 MB 75%]

## This step Creates a directory and a file main.tf

-	
🚰 edupradocasteli3001@edup	adocateSSON VitualBox -Amon Hundows docate container
	processes an update or no-op action for this instance, Ferraform will pain to replace instance. You can use this option multiple times to replace more than doe object.
	Limit the planning operation to only the given module, resource, or resource intrance and all of its dependencies. To so can use this option multiple times to include more than one object. This is for exceptional use cally.
	Set a value for one of the input warlables in the root models of the configuration. Use this option more than models of the configuration. Use this options more than once to set more than one variable.
	Lad warkable values from the given file, in solition to the offeth [files creation: https://www.and.wature.org/ The file option more than conce to include more than one warkable file.
	If Tertaform produces any warnings that are not accompanied by recors, shows them in a more compact form that includes only the summary manages.
	<pre>Beturn detailed exit codes when the command exits. This will change the meaning of exit codes to: 0 - succeeds, diff is are(y non changes) 1 - Errored 2 - Succeeds, there is a diff</pre>
	crpath Experimental) If import Blocks are granted in continueton, instructor interactors to pursues this continueton, instructors inclusive present. The continueton is written at BAR, which must not already waist. Terraform may still actempt to write continuention in the plane rectors.
	Don't hold a state look during the operation. This is dangerous if others angle concurrently run commands adjuint the age votragade.
	Write a plan file to the given path. This can be used as input to the "apply" command.
	Limit the number of concurrent operations. Defaults to 10.
	A legacy option used for the local backend only. Bee the local backend's documentation for more information.
dupradocastel13001@e	bgrædocastill30]-VirralBoxi-E Vouch /, kæhnc myradocastill30]-VirralBoxi-E versform -insmil-sutocomplete myradocastill300-VirralBoxi-E mkdir learn-tersform-docker-container
	bpradocastell3001-VirtualBoxi-5 od Jearn-terraform-docket-oontainer Burgadocastell3001-VirtualBoxi-1/earn-terraform-docket-container5 sudo vi main.tf]

### Run command ->> Terraform init



#### **Confirmations YES**

🗬 edupradocastell3001@edupradocastell3001-VirtualBox: ~/learn-terrafor	m-docker-container
+ create	
Terraform will perform the following actions:	
# docker_container.nginx will be created	
resource "docker_container" "nginx" [	
+ attach	
+ bridge - command	<ul> <li>(known after apply)</li> <li>(known after apply)</li> </ul>
+ container logs	<ul> <li>(known after apply)</li> <li>(known after apply)</li> </ul>
+ container read refresh timeout milliseconds	
+ entrypoint	= (known after apply)
+ env	= (known after apply)
+ exit_code	= (known after apply)
+ hostname	
- 1d	= (known after apply)
+ image + init	<pre>= (known after apply) = (known after apply)</pre>
+ ipc mode	<ul> <li>(known matter apply)</li> </ul>
+ log driver	= (known after apply)
+ logs	
+ must_run	
+ name	
<ul> <li>network_data</li> </ul>	= (known after apply)
+ read_only + remove volumes	= false = true
+ restart	= *no*
+ IR	false
+ runtime	(known after apply)
+ security_opts	= (known after apply)
+ shm_size	
+ start	= true
+ stdin_open	<pre>= false (Holen after apply)</pre>
+ stop_signal + stop_timeout	<ul> <li>(known store deplay)</li> <li>(known store deplay)</li> </ul>
+ EEA	= false
+ wait	
<pre>+ wait_timeout</pre>	
+ ports (	
+ external = 8000	
+ internal = 80	
+ 1p = "0, 0, 0, 0"	
+ protocol = "tcp"	
) · · ·	
# docker image.nginx will be created	
+ resource "docker image" "nginx" {	
+ id = (known after apply)	
+ image_id = (known after apply)	
+ keep_locally = false	
+ name = "nginx"	
+ repo_digest = (known after apply)	
Plan: 2 to add, 0 to change, 0 to destroy.	
199) 9780 - 1997 - 9780 Store - Martin Barris (1892) - 694 - 624 (1925)	
Do you want to perform these actions? Terraform will perform the actions described above	
Only 'yes' will be accepted to approve.	
Enter a value:	

edupradocastell3001@edupradocastell3001-VirtualBox: ~/learn-terraform	m-docker-container
<pre># docker_container.nginx will be created + resource "docker container" "nginx" {</pre>	
+ attach	= false
+ bridge	= (known after apply)
+ command	= (known after apply)
+ container_logs	<pre>= (known after apply)</pre>
+ container_read_refresh_timeout_milliseconds	
+ entrypoint + env	= (known after apply) = (known after apply)
+ exit code	= (known after apply)
+ hostname	= (known after apply)
+ id	= (known after apply)
+ image	<pre>= (known after apply)</pre>
+ init	= (known after apply)
+ ipc_mode + log driver	= (known after apply) = (known after apply)
+ logs	= false
+ must run	= true
+ name	= "tutorial"
+ network_data	<pre>= (known after apply)</pre>
+ read_only	= false
+ remove_volumes + restart	= true = "no"
+ rm	= false
+ runtime	= (known after apply)
+ security_opts	= (known after apply)
+ shm_size	= (known after apply)
+ start	= true
+ stdin_open + stop signal	= false = (known after apply)
+ stop_signal + stop_timeout	= (known after apply) = (known after apply)
+ tty	= false
+ wait	= false
+ wait_timeout	
+ ports {	
+ external = 8000	
+ internal = 80	
+ ip = "0.0.0.0"	
+ protocol = "tcp"	
}	
1	
<pre># docker image.nginx will be created</pre>	
<pre>+ resource "docker_image" "nginx" {</pre>	
+ id = (known after apply)	
+ image_id = (known after apply)	
+ keep_locally = false + name = "nginx"	
+ repo digest = (known after apply)	
}	
Plan: 2 to add, 0 to change, 0 to destroy.	
Do you want to perform these actions? Terraform will perform the actions described abov	79
Only 'yes' will be accepted to approve.	
Enter a value: yes	
docker_image.nginx: Creating	

Now Nginx is working in my localhost;

🚰 Ubuntu LAb (Executando) - Oracle VM VirtualBox													- 0 ×
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	Activities	🙂 Firefa	x Web Browse	r		Feb 15 17:46					î.		
		) Welcom	e to nginx!	×	+				~		×		
	· 🤍 🗧	> C		0 10 100	alhost:8000			☆	Ø	<u>۵</u>	=		
					Welcome	to nginx!							
	· A				If you see this page working. Further co	e, the nginx web server is su onfiguration is required.	ccessfully installed and						
	?				For online documer	ntation and support please r rt is available at <u>nginx.com</u> .							
					Thank you for using	g nginx.							
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Docker Ps show the container was created.

<ul> <li>hostname</li> </ul>		= (known after apply			
		- iknown after apply			
+ ipc mode					
< must_run					
		= true			
+ restart + rm		= false			
<ul> <li>runtime</li> </ul>		= isise = (known after apply			
		= (known after apply = (known after apply			
<ul> <li>security_opts</li> <li>shm size</li> </ul>		= [known after apply			
+ start		<ul> <li>true</li> </ul>			
+ stdin open		= false			
+ stop signal		= (known after apply			
+ stop timeout		- iknown after apply			
+ 15V		- false			
		= 60			
	"top"				
# docker image.nging	1111 he seemed				
· resource "docker in					
	(known after apply)				
	(known after apply)				
+ keep locally =					
+ bace =					
	(known after apply)				
lan: 2 to add, 0 to c	ange, 0 to destroy.				
o you want to perform	these actions?				
	a the actions described above				
Only 'yes' will be a	cepted to approve.				
Enter a value: yes					
locker_image.nginx: Cr					
	11 creating [10s elapsed]				
	11 creating [20s elapsed]				
	ation complete after 21s [id-	aha256:e4720093a3c13	101245b53a5a51b417963	b3c4472d3f47fc301930	a4f3b17666anginx
ocker_container.nginx					
ocker_container.nginx	Creation complete after 3s	id=4b136669c2774acft	d90bfebd369af4219905	348b11645c50671f3088	SPP8(P21
	es: 2 added, 0 changed, 0 de:				
	predocastel13001-VirtuelBos: predocastel13001-VirtualBos:				
OUTAINER ID IMAGE	COMMAND	CREATED	STATUS	PORTS	NAMES
h1166666-222 =473000	a3cl */docker-entrypoint				

## Stop container

edupradocastell3001@edupradocastell3001-VirtualBox: ~/l	earn-terraform-docker-container
<ul> <li>global ipv6 address</li> </ul>	= ""
- global_ipv6_prefix_length	- 0
ip_address	= "172.17.0.2"
	- 16
	= ""
	= "02:42:ac:11:00:02"
	= "bridge"
},	
] -> null - network mode	= "default" -> null
- privileged	= false -> null
- publish all ports	= false -> null
- read only	= false -> null
- remove volumes	= true -> null
- restart	= "no" -> null
- rm	= false -> null
- runtime	= "runc" -> null
<ul> <li>security_opts</li> </ul>	- [] -> null
- shm_size	= 64 -> null
- start	= true -> null
- stdin_open	= false -> null
- stop_signal	= "SIGQUIT" -> null
- stop_timeout	= 0 -> null = {} -> null
<pre>- storage_opts - sysctls</pre>	$= \{\} \rightarrow hull$
- tmpfs	$= \{ \} \rightarrow \text{null}$
- tty	= false -> null
- wait	= false -> null
- wait timeout	= 60 -> null
<pre>- posts {     - posts {         - external = 8000 -&gt; null         -internal = 80 -&gt; null         -internal = 80 -&gt; null         -protocol = "top" -&gt; null         ;         ;         ;</pre>	
<pre># docker image.nginx will be destroyed</pre>	
- resource "docker image" "nginx" {	
	:1381245b53a5a51b417963b3c4472d3f47fc301930a4f3b17666anginx" -> null
	1381245b53a5a51b417963b3c4472d3f47fc301930a4f3b17666a" -> null
<pre>- keep_locally = false -&gt; null</pre>	
- name = "nginx" -> null	
- repo_digest - "nginx@sna256:25ff	78171a2fd27d61a1774d97672bb7c13e888749fc70c711e207be34d370a" -> null
3	
Plan: 0 to add, 0 to change, 2 to destroy.	
Do you really want to destroy all resource Terraform will destroy all your managed There is no undo. Only 'yes' will be acc	infrastructure, as shown above.
CONTAINER ID IMAGE COMMAND 4b136669277 e4720093a3c1 "/docker-ent edupradocastell3001@edupradocastell3001-V5 4b13	rtualBox:-/learn-terraform-docker-container\$ docker ps CREATED STATUS FORTS NAMES rypoint" 3 minutes ago Up 3 minutes 0.00.0.0:8000->80/tcp tutorial rtualBox:-/learn-terraform-docker-container\$ docker stop 4b13
CONTAINER ID IMAGE COMMAND CREATER	irtualBox:~/learn-terraform-docker-container\$ docker ps ) STATUS PORTS NAMES irtualBox:~/learn-terraform-docker-container\$

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Create User EB3001 (it is my initials and last digit number of Conestoga)

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~	Create user   IAM   Global × +				- 0	×
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aws	Q Search		0	Global	• ewhite	.007 +
=	IAM > Users > Create user					6
	inter y uses y create use					Θ
	Step 1	Specify user details				G
	Specify user details					
	Step 2 Set permissions	User details				
	Step 3	Username				
	Review and create	eb3001				
		The username can be up to 64 characters long. Valid characters: AZ, az, 0-9, and + + , . (p(hyphen)				
		Provide users with access to the AWS Management Console - optional				
		If you are providing console access to one person, the best practice 🛃 to manage her access in the LAM Identity Center.				
		🔕 If you are creating programmatic access through access keys or service-specific credentials for AWS Code/Commit or Amazon Keyspaces, you can generate them after you create this IAM user. Income 😢				
			Can	cel 📕	Next	

## Give permissions

•	📴 Criar usuário   IAM   Global 🛛 🗙 🕂													p :
~	→ O ts us-east-1.console.aws.a	mazon.com	/iam/home?region=ca-central-1#/u	sers/create						Q	. ☆	Ď =		٩
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aws	Serviços Q. Search			[Alt+S]						D 4	0 0	Global	ebri	anco007
≡	IAM > Usuários > Criar usuário													
	Etapa 1 Especificar detalhes do usuário		nir permissões usuário a um grupo existente ou crie u	im novo. Usar grupos é uma	a prática recomer	ndada para gerenciar as permissões do	usuário por fu	inções de trabalho. Saiba mais 🔀						
	Etapa 2 Definir permissões	Opçi	ões de permissões											
	Etapa 3 Revisar e criar									etamente enciada diretamente a um usuário políticas a um grupo. Em seguida,				
			pos de usuários (1/2) Pesquisar								C	Criar gn	po ()	
			Nome do grupo 🛃	•	Usuários		v Po	olíticas anexadas 🛃	~	Criado			v	
			admin		2		Ad	dministratorAccess	`	2023-05-04 (9 meses atrás)				
			<u>so</u>		1		<u>s3</u>	-tag-code e SupportUser		2023-05-05 (9 meses atrás)				
		► De	efinir limite de permissões - (	opcional										
										Cancelar	Anter	ior Pr	iximo	

## Another method for auth.

aws	Serviços Q. Search	(AR+5)	D 4	Ø	۲	Global 👻	ebranco0	07 •
=	IAM > Usuários > eb3001 > Cria	r chave de acesso						٢
	Etapa 1 Práticas recomendadas e alternativas para chaves de acesso	Práticas recomendadas e alternativas para chaves de acesso internações Evite usar credenciais de longo prazo, como chaves de acesso, para melhorar sua segurança. Considere os seguranças canos de uno e alternativas.						0
	Etapa 2 - opcionol	Caso de uso						
	Definir etiqueta de descrição	Command Line Interface (CU) Você plansja scar esas chave de acesso para permitêr que a AVIS CLI acesse sua conta da AVIS.						
	Etapa 3 Recuperar chaves de acesso	C Código Iocal Ved paneja nar esas chere de aceso para prevetir que e código da aplicação em um ambiente de deservolvimento local acesos a tua conta da AMS.						
		Aplicação em seexução dom em serviço comparadavani da 2015.     Wel angle em em tente de a serviça promitir que e videga de aplicação executado em um serviço compatacional da ARIS, como a Amazon ECL o Amazon ECL no e altis Lantida, exerca a sua conta da ARIS.						
		Serviço de terceiros Ved plança sur esas chare de aceso gara permitir a aceso de uma aplicação eu um serviça de tensitiva que monitars ou prencia en seos recursos da AIRS.						
		Aplicação executada fora da AMS Ved plunção que reacitave de acessa para autoreticar workloade em execção em sou distanter su em suito infraestrutura fora da AMS que precise acessar sous rescensor adrezá para da acessa para autoreticar workloade em execção em sou distanter su em suito infraestrutura fora da AMS que precise acessar sous rescensor adrezá para da acessa para autoreticar workloade em execção em sou distanter su em suito infraestrutura fora da AMS que precise acessar sous rescensor adrezá para autoreticar workloade em execção em sou distanter su em suito infraestrutura fora da AMS que precise acessar sous rescensor adrezá para a da em sous da acessar sous acessar sous acessar adrezá para da acessar sous rescensor adrezá para adrezá para adrezá para adrezá para da acessar sous acessar rescensor adrezá para acessar sous acessar sous acessar sous acessar sous acessar rescensor adrezá para adrezá para adrezá para adrezá para da acessar sous acessar rescensor adrezá para adrezá para adrezá para adrezá para da acessar rescensor adrezá para adrezá para adrezá para da acessar sous acessar rescensor adrezá para adrezá para adrezá para da acessar sous acessar rescensor adrezá para adrezá para adrezá para adrezá para da adrezá para da acessar rescensor adrezá para da acessar adrezá para da adrezá para da adrezá para da adrezá para da adrezá para rescensor adrezá para da adrezá para rescensor adrezá para da adrezá para rescensor adrezá para da adrezá para rescensor adrezá para da adrezá para rescensor adrezá para da adrezá para rescensor adrezá para da adrezá padrezá						
		Cutors     Ser care der son value exalt listande aug.k.						
		Klo hå problema em var ums chave de zersto para esse caso de sato. Porém, skga as práticas recomendadas:     Narca armateme sua chave de zersto am testo tem formatzijka, em um repositario de cidigos ou em cidigo.     Desatibilita e restand utento de zersto quanto no la forem nais necessárias.     Habite permitadose de memo privilégio.     Alterne recondemente as chaves de sersto.						
		Para obter mais detaibles sobre o gerenciamento de chaves, consulte as <u>Publicas recomendadas para o gerenciamento de chaves</u> da ANS.						

## Create key

aws	Serviços Q Search	[Alt+5]				D	\$ Ø	•	Global 👻 🛛	ebranco007 +	
=	IAM > Usuários > eb3001 > Criar	chave de acesso								0	Ð
	Etapa 1 Práticas recomendadas e alternativas para chaves de acesso	Definir etiqueta de descrição - opcional utomades A descrição desta chave de acesso será anexada a este vaudino como uma etiqueta e será enibida junto com a chave de acesso.								6	9
	Etapa 2 - opcional Definir etiqueta de descrição	Volor de eliqueta de descrição Deserva a finalidad desta chane de acesso e onde da será usada. Uma bea descrição ajudará a alternar essa chave de acesso com conflunça posteriormente. Device:									
	Etapa 3 Recuperar chaves de acesso	Verwey Minima de 256 caracteres. Os caracteres permitidos são letras, números, espaços que podem ser representados em UTI-8 e _ ::/=++ @									
	Recuperar chaves de acesso		Cancelar	Anterior	Criar chave de acesso						

# ACESSkey and Secrect key

Serviços Q. Search	[Alt+S]	] [ [ [ [ [ [ [ [ [ [ [ [ [ [ [ [ [ [ [	D 4	Ø	۲	Global 🔻	ebranco00
nave de acesso criada ta é a única vez que a chave de acess	o secreta pode ser visualizada ou baixada. Você nilo pode reci	uperà-la posteriormente. No entanto, você pode criar uma nova chave de acesso a qualquer momento.					
IAM > Usuários > eb3001 > Cri							
Etapa 1 Práticas recomendadas e alternativas para chaves de	Recuperar chaves de acesso	Infernaçãos					
sso	Chave de acesso Se vecê perder ou esquecer sua chave de acesso secreta, não	poderá recuperá la. Em vez disas, crite uma nove chave de acesso e turne a chave antiga institua.					
	Chave de acesso	Chave de acesso secreta					
a 3	AKIA42LRRLGV466IHGPQ	Tg76CallkNOI8P0Fh+J/Wm6nk2WOI3PUEk+tPHR8     Ocultar					
erar chaves de acesso	Acesse as principais práticas recomend	adas					
	Nunca armazene sua chave de acesso em texto s     Desabilite ou exclua a chave de acesso quando n     Habilite permissões de menor privilégio.     Alterne regularmente as chaves de acesso.	en formatação, em um repositióno de códigos ou em código. Jo for mais necessária.					
	Para obter mais detalhes sobre o gerenciamento de	chaves, consulte as Práticas recomendadas para o gerenciamento de chaves da AWS.					
		Baixar arquivo .csv Concluido					

# Login in aws configure and just LS in my buckets

Se edupradocastell0001@edupradocastell0001-VirtualBox: -//earn-terraform-docker-container	-	0
edupradocastel13001§edupradocastel13001-VirtualBox:-/learn-terraform-docker-container\$ aws configure		
AMS Access Key ID [None]: AMIA421RRLGV466IHGPQ		
AKS Secret Access Key [None]: Tg76CallkN018P0Fh+JvWm6nkIW013PUEk+tPHR8		
Default region name [None]: ap-southeast-2		
Default output format [None]:		
edupradocastel13001@edupradocastel13001-VirtualBox:-/learn-terraform-docker-container\$ aws s3 1s		
2024-02-05 20:44:42 dddddddddddddddddd		
2023-12-06 15:41:31 ebranco.link		
2024-01-18 14:33:58 sys8161-web		
2024-01-18 13:57:35 sys8181-s1-eb3001-web		
2024-01-15 09:25:16 syst8181-edopradocastel13001		
edupradocastel13001@edupradocastel13001-VirtualBox:-/learn-terraform-docker-container#		

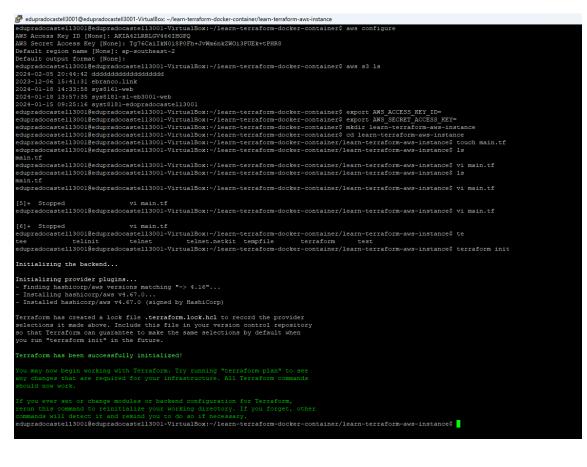
#### Create Directory, and file main.tf;

🧬 edupradocastell3001@edupradocas	tell3001-VirtualBox: ~/learn-terraform-docker-container/learn-terraform-aws-instance
edupradocastell3001@eduprad	locastell3001-VirtualBox:~/learn-terraform-docker-container\$ aws configure
AWS Access Key ID [None]: A	KIA42LRRLGV466IHGPQ
AWS Secret Access Key [None	e]: Tg76CailkN0i8P0Fh+JvWm6nkZWOi3PUEk+tPHR8
Default region name [None]	ap-southeast-2
Default output format [None	
edupradocastel13001@eduprad	iocastell3001-VirtualBox:~/learn-terraform-docker-container\$ aws s3 ls
2024-02-05 20:44:42 dddddd	ddddddddd
2023-12-06 15:41:31 ebrance	.link
2024-01-18 14:33:58 sys816	-web
2024-01-18 13:57:35 sys818	-sl-eb3001-web
2024-01-15 09:25:16 syst818	1-edopradocastel13001
edupradocastel13001@eduprad	locastell3001-VirtualBox:~/learn-terraform-docker-container\$ export AWS_ACCESS_KEY_ID=
edupradocastel13001@eduprad	iocastell3001-VirtualBox:~/learn-terraform-docker-container\$ export AWS_SECRET_ACCESS_KEY=
	locastell3001-VirtualBox:~/learn-terraform-docker-container\$ mkdir learn-terraform-aws-instance
edupradocastel13001@eduprad	locastell3001-VirtualBox:~/learn-terraform-docker-container\$ cd learn-terraform-aws-instance
	locastell3001-VirtualBox:~/learn-terraform-docker-container/learn-terraform-aws-instance\$ touch main.tf
	locastell3001-VirtualBox:~/learn-terraform-docker-container/learn-terraform-aws-instance\$ ls
main.tf	
	locastell3001-VirtualBox:~/learn-terraform-docker-container/learn-terraform-aws-instance\$ vi main.tf
	locastell3001-VirtualBox:~/learn-terraform-docker-container/learn-terraform-aws-instance\$ ls
main.tf	
edupradocastel13001@eduprad	locastell3001-VirtualBox:~/learn-terraform-docker-container/learn-terraform-aws-instance\$ vi main.tf
[5]+ Stopped	vi main.tf
edupradocastel13001@eduprad	Nocastell3001-VirtualBox:~/learn-terraform-docker-container/learn-terraform-aws-instance\$ vi main.tf
[6]+ Stopped	vi main.rf
edupradocastel13001@eduprad	locastell3001-VirtualBox:~/learn-terraform-docker-container/learn-terraform-aws-instance\$

#### Just copy and past.

	-	0
erraform (		
required providers (		
aws = 1 source = "hashicorp/aws"		
wraido = ">4.6"		
required_version = ">= 1,2.0"		
provider "aws" (		
region = "us-west-2"		
ersource "way instance" "app_server" ( ani = "ani-300"Ha3"		
ami = *ami-300¢fe3* instance;ype *t2.micro*		
instance_type - taining		
tags = {		
Name = "ExampleAppServerInstance"		

#### Terraform init



## Validating..

🧬 edupradocastell3001@edupradocastell3001-VirtualBox: ~/learn-terraform-docker-container/learn-terraform-aws-instance
edupradocastell3001@edupradocastell3001-VirtualBox:~/learn-terraform-docker-container\$ aws configure
AWS Access Key ID [None]: AKIA42LRRLGV4661HGPQ
AWS Secret Access Key [None]: Tg76CailkN0i8P0Fh+JvWm6nkZW0i3PUEk+tPHR8
Default region name [None]: ap-southeast-2
Default output format [None]: edupradocestell3001@edupradoceatell3001-VirtualBox:~/learn-terraform-docker-container% avs s3 ls
2024-02-05 20:44:12 ddddddddddddddddddd
2023-12-06 IS:41:13 ebranco.link
2024-01-18 14:33:58 sys8161-web
2024-01-18 13:57:35 sys8181-s1-eb3001-web
2024-01-15 09:25:16 syst8181-edopradocaste113001
edupradocastell3001@edupradocastell3001-VirtualBox:~/learn-terraform-docker-container\$ export AWS_ACCESS_KEY_ID=
edupradocastell3001@edupradocastell3001-VirtualBox:~/learn-terraform-docker-container\$ export AWS_SECRET_ACCESS_KEY=
edupradocastell3001@edupradocastell3001-VirtualBox:~/learn-terraform-docker-container\$ mkdir learn-terraform-aws-instance
edupradocastell3001@edupradocastell3001-VirtualBox:-/learn-terraform-docker-container% od learn-terraform-avs-instance edupradocastell3001@edupradocastell3001-VirtualBox:-/learn-terraform-docker-container/learn-terraform-avs-instance
edupradocastelisonjeedupradocastelison-virudabox:v/earn-terraform-docker-containe/rearn-terraform-aws-instance? local main ti edupradocastelisonjeedupradocastelison-virudabox:v/earn-terraform-docker-container/earn-terraform-aws-instance? ls
adin ti Main ti
edupradocastell3001@edupradocastell3001-VirtualBox:~/learn-terraform-docker-container/learn-terraform-aws-instance\$ vi main.tf
edupradocastell3001@edupradocastell3001-VirtualBox:~/learn-terraform-docker-container/learn-terraform-aws-instance% ls
main.tf
edupradocastell3001@edupradocastell3001-VirtualBox:~/learn-terraform-docker-container/learn-terraform-aws-instance\$ vi main.tf
[5]+ Stopped vi main.tf
edupradocastell3001@edupradocastell3001-VirtualBox:~/learn-terraform-docker-container/learn-terraform-aws-instance% vi main.tf
[6]+ Stopped vi main.tf
lojy Scopped edupradocastell3001@edupradocastell3001-VirtualBox:~/learn-terraform-docker-container/learn-terraform-aws-instance\$ te
tee telinit telnet telnet.netkit tempfile terraform test
edupradocastell3001@edupradocastell3001-VirtualBox:~/learn-terraform-docker-container/learn-terraform-aws-instance% terraform init
Initializing the backend
Initializing provider plugins
- Finding provide program
- Installing hashcorp/aws v4.67.0
Installed hashicorp/aws v4.67.0 (signed by HashiCorp)
Terraform has created a lock file .terraform.lock.hcl to record the provider
selections it made above. Include this file in your version control repository
so that Terraform can guarantee to make the same selections by default when
you run "terraform init" in the future.
Terraform has been successfully initialized!
Reference and a second se
You may now begin working with Terraform. Try running "terraform plan" to see
any changes that are required for your infrastructure. All Terraform commands
should now work.
If you ever set or change modules or backend configuration for Terraform,
rerun this command to reinitialize your working directory. If you forget, other
commands will detect it and remind you to do so if necessary. edupradocastell3001eyteul3001-ytrualBox://learn-terraform-docker-container/learn-terraform-aws-instance? terraform fmt
edupradocasteli3001gedupradocasteli3001-virtualbox:~/learn-terratorm-docker-container/learn-terratorm-aws-instances terratorm imt main.tf
mani.ul edupradocastell3001@edupradocastell3001-VirtualBox:~/learn-terraform-docker-container/learn-terraform-aws-instance\$ terraform validate
Success! The configuration is valid.
edupradocastell3001@edupradocastell3001-VirtualBox:~/learn-terraform-docker-container/learn-terraform-aws-instance\$

## Run and confirmations

edupradocastell3001@edupradocastell3001-VirtualBox: ~/lea	rn-terraform-docker-container/learn-terraform-aws-instance
+ create	
Terraform will perform the following action:	3:
# aws instance.app server will be created	
+ resource "aws instance" "app server" {	
+ ami	= "ami-830c94e3"
+ arn	= (known after apply)
+ associate_public_ip_address	= (known after apply)
	<pre>= (known after apply) </pre>
+ cpu_core_count + cpu threads per core	<pre>= (known after apply) = (known after apply)</pre>
	= (known after apply) = (known after apply)
+ disable api termination	= (known after apply)
+ ebs optimized	(known after apply)
	= false
+ host_id	= (known after apply)
+ host_resource_group_arn	= (known after apply)
+ iam_instance_profile	= (known after apply)
	= (known after apply)
+ instance_initiated_shutdown_behavio	
+ instance_state + instance type	<pre>= (known after apply) = "t2.micro"</pre>
	<pre>- "t2.micro" = (known after apply)</pre>
	(known after apply)
	(known after apply)
	= (known after apply)
+ outpost_arn	= (known after apply)
+ password_data	= (known after apply)
+ placement_group	= (known after apply)
	= (known after apply)
+ primary_network_interface_id	<pre>= (known after apply) = (known after apply)</pre>
+ private_ons + private_ip	<pre>= (known after apply) = (known after apply)</pre>
	(known after apply)
	(known after apply)
	= (known after apply)
	= (known after apply)
	= true
+ subnet_id	= (known after apply)
+ tags	
<pre>+ "Name" = "ExampleAppServerInsta: }</pre>	nce"
; + tags all	= {
+ "Name" = "ExampleAppServerInsta:	
}	
+ tenancy	= (known after apply)
+ user_data	= (known after apply)
	= (known after apply)
+ user_data_replace_on_change	= false
+ vpc_security_group_ids	= (known after apply)
<pre> Plan: 1 to add, 0 to change, 0 to destroy. </pre>	
Do you want to perform these actions?	
Terraform will perform the actions describ Only 'yes' will be accepted to approve.	bed above.
Enter a value: yes	
ave instance and correct. Creating	
aws_instance.app_server: Creating П	

# Create EC2 instance by terraform

🛃 edupradocastell3001@edupradocastell3001-VirtualBox: ~/lea	arn-terraform-docker-container/learn-terraform-aws-instance
+ associate_public_ip_address	<pre>= (known after apply)</pre>
+ availability_zone	= (known after apply)
+ cpu_core_count	= (known after apply)
+ cpu_threads_per_core + disable_api_stop	= (known after apply) = (known after apply)
	= (known after apply)
+ ebs optimized	= (known after apply)
+ get_password_data	= false
boat id	= (known after apply)
<pre>+ host_resource_group_arn + iam_instance_profile + id</pre>	<pre>= (known after apply)</pre>
+ iam_instance_profile	= (known after apply)
+ 1ú	= (known after apply)
+ instance_initiated_shutdown_behavio + instance state	= (known after apply) = (known after apply)
+ instance type	= "t2.micro"
+ ipv6 address count	= (known after apply)
+ ipv6 addresses	= (known after apply)
+ key_name	= (known after apply)
+ monitoring	<pre>= (known after apply)</pre>
	= (known after apply)
+ password_data	<pre>= (known after apply) = (known after apply)</pre>
	= (known after apply) = (known after apply)
<pre>+ placement_partition_number + primary_network_interface_id</pre>	= (known after apply) = (known after apply)
+ private dns	= (known after apply) = (known after apply)
+ private ip	= (known after apply)
+ public_dns	= (known after apply)
+ public_ip	= (known after apply)
+ secondary_private_ips	<pre>= (known after apply)</pre>
+ security_groups	<pre>= (known after apply)</pre>
+ source_dest_check	= true
+ subnet_id + tags	<pre>= (known after apply) = {</pre>
+ "Name" = "ExampleAppServerInsta	
}	
+ tags_all	
+ "Name" = "ExampleAppServerInsta	ance"
}	
+ tenancy + user data	= (known after apply) = (known after apply)
+ user_data_base64	<pre>- (known alter apply) = (known after apply)</pre>
+ user_data_replace_on_change	= false
+ vpc security group ids	= (known after apply)
}	
Plan: 1 to add, 0 to change, 0 to destroy.	
Do you want to perform these actions?	
Terraform will perform the actions descri	ibed above.
Only 'yes' will be accepted to approve.	
Enter a value: yes	
<pre>aws_instance.app_server: Creating aws instance.app server: Still creating</pre>	[]Os elansed]
aws instance.app server: Still creating	
aws_instance.app_server: Still creating	
aws_instance.app_server: Still creating	[40s elapsed]
aws_instance.app_server: Still creating	
aws_instance.app_server: Creation complete	after 54s [id=i-0120a5e743913da45]
Apply completel Recourses 1 added 0 above	and O destroyed
Apply complete! Resources: 1 added, 0 change edupradocastell30010edupradocastell3001-Viz	ged, O destroyed. rtualBox:~/learn-terraform-docker-container/learn-terraform-aws-instance\$
cuupradocasterrootteedupradocasterroott-vir	Container/Tearn-terratorm-docker-container/Tearn-terratorm-aws-instances

# Cheking

💌 🔯 Instâncias   EC2   us-west-2	x + - 0 :	ĸ
← → C ts us-west-2.c	consoleaws.amazon.com/e02/home?region=us-west-2#instancesv=3.5csse=tagstrue%5Cclientfalse. 🔶 🛛 🖬 🔲 🤹	:
🖿 Barra de favoritos 🛛 💶 (6) TUDO (	0 QUF V. 🗁 connetoga Callege 🕘 Superbid Basil - Lei. 📓 Leills Oficial Online. 🔹 LDTOMANIA 60 NU. 🔗 Freitsa Leilles Onlin. 🗰 Consulta Processual. 👆 Processual N Carthre. 👆 Processo N° Carthre. 🖏 Doomlaad pfilense. 🔹 🗎	85
aws Serviços Q Sea	arch (Alt+5) D ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( )	ļ.
Painel EC2 X	Instâncias (1) Internações C Conectar Estado da Instância 🔻 Ações 🔻 Escontarimitimitin 💌	0
Visualização Global do	Q. Localizar Instancia por atributo ou tog (case-sensitive) Qualquer e 🔻	
EC2	🗋 Name 🦯 🔻 V ID da instância Estado da inst 🔻 Tipo de inst 👻 Verificação de stat Status do alam Zona de dispon V DNS IPv4 público 🔍 Endereço IP 🔍 IP	
Eventos	ExampleAppServerInstance i-0120a5e743913da45 ② Executando 🔍 Q t2.micro ③ 2/2 verificações aj Exibir alarmis + us-west-2b ec2-52-42-63-75.us-we 52.42-63.75	
▼ Instâncias		
Instâncias		
Tipos de instância		
Modelos de execução		
Solicitações spot		
Savings Plans		
Instâncias reservadas		
Hosts dedicados		
Reservas de capacidade		
Novo		
▼ Imagens		
AMIs		
Catálogo de AMIs	Selecionar uma instância	
▼ Elastic Block Store		
Volumes		
Snapshots		
Lifecycle Manager		
▼ Rede e segurança		
Security groups		

## Show detail about instance

🔮 edupradocastell3001@edupradocastell3001-VirtualBoic ~/learn-terraform-docker-container/learn-terraform-aws-instance					
Apply complete! Resources: 1 added, 0 changed, 0 destroyed.					
ppry compreve. Resources : added, o changed, o destroyed. dupradocastell3001@edupradocastell3001-VitualBox://learn-terraform-docker-container/learn-terraform-aws-instance\$ terraform show					
<pre># aws_instance.app_server:</pre>					
resource "aws_instance" "app_server" {					
ami	= "ami-830c94e3"				
arn associate_public_ip_address	<pre>= "arn:aws:ec2:us-west-2:881243281835:instance/i-0120a5e743913da45" = true</pre>				
	- clue = "us-west-2b"				
cnu core count					
cpu_threads_per_core	= 1				
	= false				
disable_api_termination	= false				
eps_optimized	= false				
	= false = false				
	= "1-0120a5e743913da45"				
instance initiated shutdown behavior					
	= "running"				
	= "t2.micro"				
	= 0				
	- 0				
	= false = 0				
primary network interface id	= "eni-06b592acb65219037"				
	= "ip-172-31-31-108.us-west-2.compute.internal"				
private_ip	= "172.31.31.108"				
	= "ec2-52-42-63-75.us-west-2.compute.amazonaws.com"				
	= "52.42.63.75"				
	= ()				
security_groups "default",	- C				
1					
source dest check	= true				
subnet_id	= "subnet-0134381clef68d63d"				
	= {				
"Name" = "ExampleAppServerInstan	ce"				
} tags all	= {				
"Name" = "ExampleAppServerInstan					
}					
tenancy	= "default"				
user_data_replace_on_change	= false				
vpc_security_group_ids	- [				
"sg-081a10c7894809d5b",					
]					
capacity reservation specification {					
capacity reservation preference					
}					
cpu_options { core count = 1					
threads per core = 1					
}					
credit_specification {					
cpu_credits = "standard"					
}					
enclave options {					
enabled = false					

#### Details about instance;

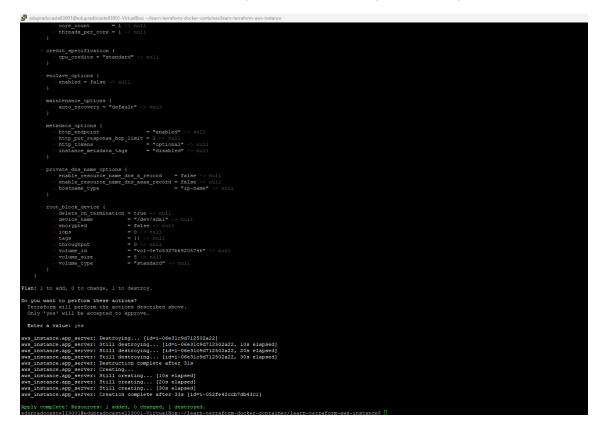
# Destroying

🧬 edupradocastell3001@edupradocastell3001-VirtualBox: ~/learn-terraform-docker-container/learn-terraform-aws-instance
<pre>+ user_data_base64 = (known after apply) ~ vpc_security_group_ids = [     - "sg-051alloc7894809d5b", ] -&gt; (known after apply) # (5 unchanged attributes hidden)</pre>
<pre>- capacity_reservation_specification {</pre>
<pre>- cpu_options {     - core_count = 1 -&gt; null     - threads_per_core = 1 -&gt; null }</pre>
<pre>- credit_specification {     - cpu_credits = "standard" -&gt; null }</pre>
<pre>- enclave_options {     - enabled = false -&gt; null }</pre>
<pre>- maintenance_options {     - auto_recovery = "default" -&gt; null }</pre>
<pre>- metadata_options (     - http_endpoint = "enabled" -&gt; null     - http_putresponse_hop_limit = 1 -&gt; null     - http_tokens = "optional" -&gt; null     - instance_metadata_tags = "disabled" -&gt; null }</pre>
<pre>- private dns name_options {     - enable_resource_name_dns_a_record = false -&gt; null     - enable_resource_name_dns_aaaa_record = false -&gt; null     - hostname_type = "ip-name" -&gt; null }</pre>
<pre>- root_block device {     - delete_on_termination = true -&gt; null     - device_name = "/dev/sdal" -&gt; null     - encrypted = false -&gt; null     - iops = 0 -&gt; null     - tags = (} -&gt; null     - throughput = 0 -&gt; null     - throughput = 0 -&gt; null     - volume_size = 8 -&gt; null     - volume_size = 8 -&gt; null     - volume_type = "standard" -&gt; null     } }</pre>
} Flan: 1 to add, 0 to change, 1 to destroy.
Do you want to be form the actions? Terraform will perform the actions described above. Only 'yes' will be accepted to approve.
Enter a value: yes
aws_instance.app_server: Destroying [id≒i-0120a5e743913da45] ∏

## Just confirmation

💌 🔯 Instâncias   EC2   us-west-2	x + - 0	×
← → ♂ t us-west-2.com	consolicavisamazon.com/ec2/home?region=us-west-2#instancesv=35case=tagstrue%SC.cientifaliesErgsex=tagsfale%SC.cientifaliesErgsex=tagsfale%SC.cientifaliesErgsex=tagsfale%SC.cientifaliesErgsex=tagsfale%SC.cientifaliesErgsex=tagsfale%SC.cientifaliesErgsex=tagsfale%SC.cientifaliesErgsex=tagsfale%SC.cientifaliesErgsex=tagsfale%SC.cientifaliesErgsex=tagsfale%SC.cientifaliesErgsex=tagsfale%SC.cientifaliesErgsex=tagsfale%SC.cientifaliesErgsex=tagsfale%SC.cientifaliesErgsex=tagsfale%SC.cientifaliesErgsex=tagsfale%SC.cientifaliesErgsex=tagsfale%SC.cientifaliesErgsex=tagsfale%SC.cientifaliesErgsex=tagsfale%SC.cientifaliesErgsex=tagsfale%SC.cientifaliesErgsex=tagsfale%SC.cientifaliesErgsex=tagsfale%SC.cientifaliesErgsex=tagsfale%SC.cientifaliesErgsex=tagsfale%SC.cientifaliesErgsex=tagsfale%SC.cientifaliesErgsex=tagsfale%SC.cientifaliesErgsex=tagsfale%SC.cientifaliesErgsex=tagsfale%SC.cientifaliesErgsex=tagsfale%SC.cientifaliesErgsex=tagsfale%SC.cientifaliesErgsex=tagsfale%SC.cientifaliesErgsex=tagsfale%SC.cientifaliesErgsex=tagsfale%SC.cientifaliesErgsex=tagsfale%SC.cientifaliesErgsex=tagsfale%SC.cientifaliesErgsex=tagsfale%SC.cientifaliesErgsex=tagsfale%SC.cientifaliesErgsex=tagsfale%SC.cientifaliesErgsex=tagsfale%SC.cientifaliesErgsex=tagsfale%SC.cientifaliesErgsex=tagsfale%SC.cientifaliesErgsex=tagsfale%SC.cientifaliesErgsex=tagsfale%SC.cientifaliesErgsex=tagsfale%SC.cientifaliesErgsex=tagsfale%SC.cientifaliesErgsex=tagsfale%SC.cientifaliesErgsex=tagsfale%SC.cientifaliesErgsex=tagsfale%SC.cientifaliesErgsex=tagsfale%SC.cientifaliesErgsex=tagsfale%SC.cientifaliesErgsex=tagsfale%SC.cientifaliesErgsex=tagsfale%SC.cientifaliesErgsex=tagsfale%SC.cientifaliesErgsex=tagsfale%SC.cientifaliesErgsex=tagsfale%SC.cientifaliesErgsex=tagsfale%SC.cientifaliesErgsex=tagsfale%SC.cientifaliesErgsex=tagsfale%SC.cientifaliesErgsex=tagsfale%SC.cientifaliesErgsex=tagsfale%SC.cientifaliesErgsex=tagsfale%SC.cientifaliesErgsex=tagsfale%SC.cientifaliesErgsex=tagsfale%SC.cientifaliesErgsex=tagsfale%SC.cientifaliesErgsex=tagsfale%SC.cientifaliesEr	<u>ا</u> ا
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Eventos	Name Z     V     ID da instância     Estado da inst     V     Tipo de inst     V     Verificação de stat     Status do alarn     Zona de dispon     V     DNS IPV4 público     V     Endereço IP     V	IF
▼ Instâncias	CampleAppServerInstance i+0120x5e7A5913da45 OEncerrado Q. Q. 12.micro - Exbin alarmes + us-west-2b	•
Instâncias		
Tipos de instância		
Modelos de execução		
Solicitações spot		
Savings Plans		
Instâncias reservadas		
Hosts dedicados		
Reservas de capacidade Novo		
▼ Imagens		
AMIs		
Catálogo de AMIs	Selecionar uma instância	
▼ Elastic Block Store		
Volumes		
Snapshots		
Lifecycle Manager		
Rede e segurança		
Security groups		
IPs elásticos		
Placement groups		
Pares de chaves		

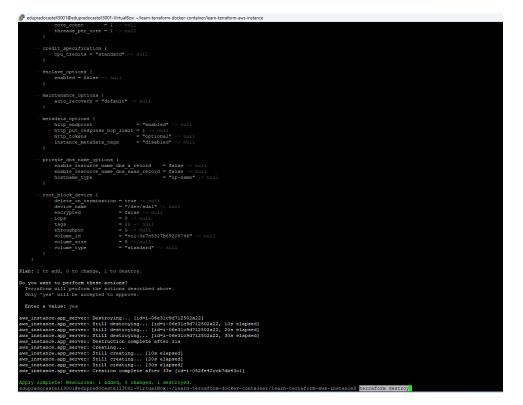
Now, after edit file, as can see change AMI. So, destroying and creating a new instance.



Show another AMI - CODE

V Salational   EC2   us-west-2	X 🐼 Novo separador X   +			-	0 )
← → C = us-west-2.c	onsole.aws.amazon.com/ec2/home?region=us-west-2#Instances:instanceState=running		☆ ⊅	w 🛛	٩
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Painet EC2 X Vusualização Global do EC2 Eventos Instâncias Tipos de Instância Modelos de execução Solicitações spot Solicitações spot Solicitações spot Solicitações spot Solicitações spot Solicitações de execução Neserva de capacidade Nese: Neserva de capacidade Nese:			∧ Zona de dispon ▼   DNS IPv4 público ▼   Ender	(1>	
		=			
Catálogo de AMIs	Instância: i-052fe42ccb7db43c1 (ExampleAppServerInstance)			Θ×	
▼ Elastic Block Store	Plataforma Ø Amazon Linux (inferido)	ID da AMI	Monitoramento desativado		
Volumes Snapshots Lifecycle Manager	Detalhes da plataforma O Linux/UNIX	Image: Control into the control intothe control intothe control into the control into the control into	Proteção contra encerramento Desabilitado		ł.
<ul> <li>Rede e segurança</li> <li>Security groups</li> </ul>	Interromper proteção Desabilitado	Data de lançamento D Thu Feb 15 2024 19:11:13 GMT-0500 (Hora padrão oriental norte- americana) (2 minutes)	Local da AMI amazon/al2023-ami-2023.3.20240205.2-kernel-6.1-x86_64		1
IPs elásticos Placement groups Pares de chaves	Recuperação automática de instância Padrão	Ciclo de vida normal	Interromper - Comportamento de hibernação Desabilitado		
Pares de chaves	<ul> <li>Índice de execução de AMIs</li> </ul>	Par de chaves atribuído na execução	Motivo de transição de estado		*

### **Destroy instance**



### Was destroyed

🧬 edupradocastell3001@edupradocastell3001-VirtualBox: -/learn-terraform-docker-container/learn-terraform-aws-instance
<pre>- capacity_reservation_preference = "open" -&gt; null }</pre>
- cpu options (
- cpt_options t - core_count = 1 -> null
- threads_per_core = 1 -> null
<pre>- credit gpecification (</pre>
)
- enclave options {
- enabled = false -> null
- maintenance_options {
}
- metadata options {
- http=endpoint = "enabled" -> null
- http_put_response_hop_limit = 2 -> null - http_tokens = "required" -> null
- instance_metadata_tags = "disabled" -> null
- private dns name options ( - enable resource name dns a record = false -> null
- enable_resource_name_dns_aaaa_record = false -> null
<pre>- hostname_type = "ip-name" -&gt; null }</pre>
- root block device (
- delete_on_termination = true -> null
<pre>- device_name = "/dev/xvda" -&gt; null - encrypted = false -&gt; null</pre>
- iops = 3000 -> hull - tags = () -> null - throughput = 125 -> null - volume_id = "vol-0d0521d940e2e9f6" -> null - volume_id = 0 -> null
- volume_id = "vol-0d0521d3940e2e9f6" -> null
- volume_size = 8 -> null - volume type = "qp3" -> null
Flan: 0 to add, 0 to change, 1 to destroy.
Do you really want to destroy all resources?
Terraform will destroy all your managed infrastructure, as shown above. There is no undo. Only 'yes' will be accepted to confirm.
Enter a value: yes
aws_instance.app_server: Destroying [id=1-052fe42ccb7db43c1] aws_instance.app_server: Still destroying [id=1-052fe42ccb7db43c1, 10s_elapsed]
aws_instance.app_server: Still destroying [id=i-052fe42ccb7db43c1, 20s_elapsed]
aws_instance.app_server: Still destroying [id=i-052fe42ccb7db43cl, 30s elapsed] aws_instance.app_server: Still destroying [id=i-052fe42ccb7db43cl, 40s elapsed]
aws_instance.app_server: Destruction complete after 41s
Destroy complete! Resources: 1 destroyed.
edupradocastell3001@edupradocastell3001-VirtualBox:-/learn-terraform-docker-container/learn-terraform-aws-instance\$

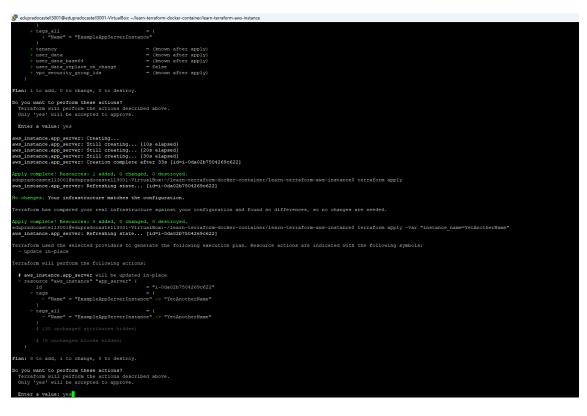
Create file variables.tf



### Creating..

🧬 edupradocastell3001@edupradocastell3001-VirtualBox: ~//e	arn-terraform-docker-container/learn-terraform-aws-instance
+ ebs_optimized	<pre>= (known after apply)</pre>
+ get_password_data	= false
+ host_id	= (known affrer apply)
+ host_resource_group_arn + iam instance profile	<pre>= (known after apply) = (known after apply)</pre>
	- (known atter apply) = (known atter apply)
+ instance initiated shutdown behavio	
	= (known after apply)
	= "t2.micro"
+ ipv6_address_count	= (known after apply)
+ ipv6_addresses	= (known after apply)
+ key_name + monitoring	<pre>= (known after apply) = (known after apply)</pre>
	(known after apply)
	= (known after apply)
<pre>+ placement_group + placement_partition_number + primary_network_interface_id + primary_network_interface_id</pre>	= (known after apply)
+ primary_network_interface_id	= (known after apply)
+ private_dns + private ip	<pre>= (known after apply) = (known after apply)</pre>
+ private_ip + public dns	- (known after apply) = (known after apply)
	(known after apply)
	= (known after apply)
+ security_groups	= (known after apply)
+ source_dest_check	= true
+ subnet_id	= (known after apply)
<pre>+ tags + "Name" = "ExampleAppServerInst;</pre>	
+ Name - ExampleAppSelvelinst.	ance
+ tags all	= {
+ "Name" = "ExampleAppServerInst	ance"
}	
+ tenancy	= (known after apply)
+ user_data	= (known after apply)
	<pre>= (known after apply) = false</pre>
+ vpc security group ids	= (known after apply)
}	
<pre>Plan: 1 to add, 0 to change, 0 to destroy.</pre>	
Do you want to perform these actions? Terraform will perform the actions descr.	thed above
Only 'yes' will be accepted to approve.	above.
onij jeb wili be abbeptea to appiotet	
Enter a value: yes	
aws_instance.app_server: Creating	
aws_instance.app_server: Still creating	
<pre>aws_instance.app_server: Still creating aws instance.app server: Still creating</pre>	
aws instance.app server: Creation complete	
Apply complete! Resources: 1 added, 0 chan	
	rtualBox:~/learn-terraform-docker-container/learn-terraform-aws-instance\$ terraform apply
aws_instance.app_server: Refreshing state.	[1d=1-0da02D/5042692622]
No changes. Your infrastructure matches the	<pre>&gt; configuration.</pre>
to onangeo. Tour influotidebuic matches th	
Terraform has compared your real infrastru	cture against your configuration and found no differences, so no changes are needed.
Apply complete! Resources: 0 added, 0 chan edupradocastell3001@edupradocastell3001-Vi:	ged, 0 destroyed. rtualBox:-/learn-terraform-docker-container/learn-terraform-aws-instance0

### Just confirmations Yes



#### Just change Name

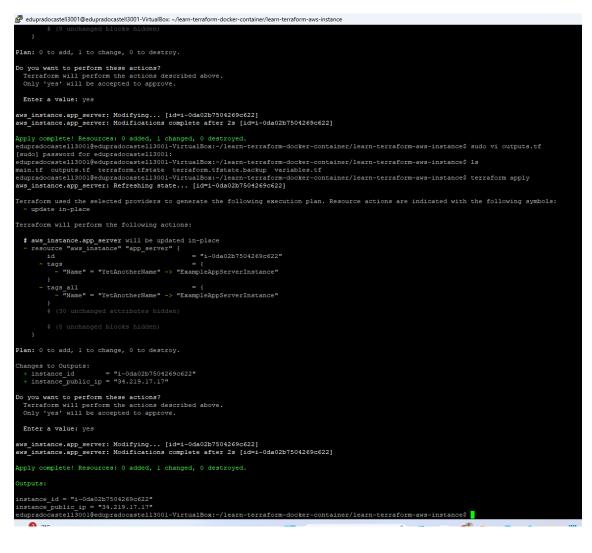


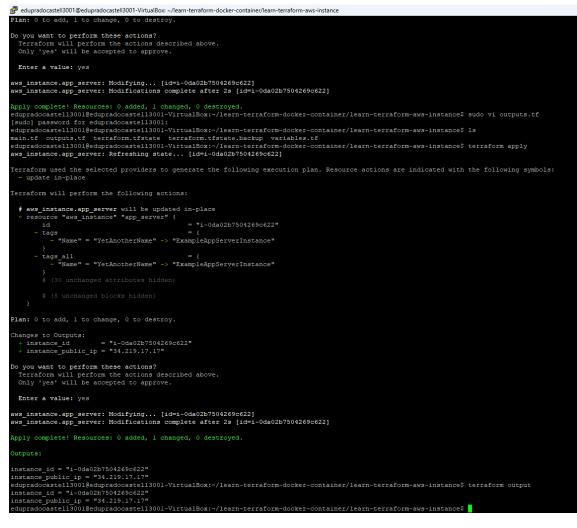
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Serviços 🔍 Search		[Alt+S]						D 4 (	0	Oregon 🔻	ebranco
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sualização Global do	Instâncias (4/5) Informações					Conectar	Estado da instânc	ia ▼ Ações ▼	Executa	ar instâncias	
2	Q. Localizar Instância por atributo o	ı taa (case-sensitive)		Qualquer e 🔻						$\langle 1 \rangle$	0
entos	Name Z	V ID da instância	Estado da inst V	Tipo de inst V	Verificação de stat	Status do alarn	Zona de dispon 🔻	DNS IPv4 público	V F	ndereco IP	~
tâncias	ExampleAppServerInstance	i-052fe42ccb7db43c1	⊖ Encerrado ⊕. ⊖.	t2.micro	-	Exibir alarmes +	us-west-2b	-		idereço il in	
tâncias	VetAnotherName	i-0da02b7504269c622		t2.micro	Ø 2/2 verificações au		us-west-2b	ec2-34-219-17-17	us-w 34	4.219.17.17	
os de instância	ExampleAppServerInstance	i-0120a5e743913da45	⊖ Encerrado @, Q	t2.micro	-	Exibir alarmes +	us-west-2b	-	-		
elos de execução	ExampleAppServerInstance     ExampleAppServerInstance	i-06e31c9d712502a22	⊖ Encerrado @ @	t2.micro	-	Exibir alarmes +		_			
citações spot	ExampleAppServerInstance	i-Obadba2c627008d8c	Θ Encerrado @ Q	t2.micro	-	Exibir alarmes +					
	(		O Data in the other				05 11057 2.0				
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tálogo de AMIs	Instâncias: i-052fe42ccb7db4	43c1 (ExampleAppServerIns	stance), i-0120a5e74	3913da45 (Examp	= leAppServerInstar	nce), i-06e31c9d	1712502a22 (Exam	pleAppServerInst	ance), i-	0	×
tic Block Store	Obadba2c627008d8c (Examp	leAppServerInstance)									
umes	Monitoramento										
apshots											
cycle Manager	Recomendações de alarme Q			1h 3h 12	h 1d 3d 1w	Custom 🗉 🛛	TC timezone 🔻 🖸	🕈 🔻 🖸 Adio	ione ao paine	et 🛛 E 🌰	0

### Outputs

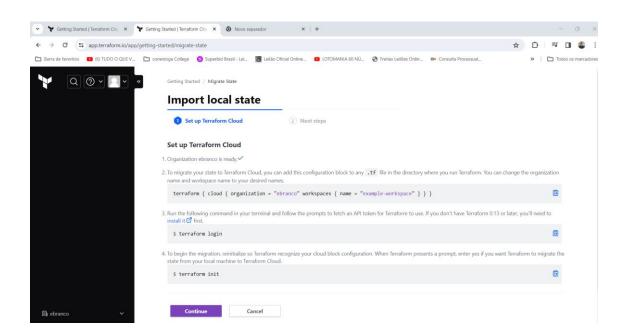


#### Show instance Id / Ip-address





#### Accessing my account



# Edit file with my account details

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												_	Integr	ação de mouse 😒 🔳	
Activit	1000	Text Editor		Feb 15 20:12							41 8				
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	~	1 terraform {						17		۲	£) ≡				
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•		4 workspaces { 5 name = "learn-	the sur "					×							
		6 ]	CTC-dHS												
A		7 }													
		9 required_providers {													
		10 aws = { 11 source = "has	htcorp/aws"												
		12 version = "-> 13 }	4.16"												
		14 }													
• (***)		15 16 required version =	">= 1.2.8"												
		17 }													
		18 19 provider "aws" {													
		<pre>20 region = "us-west- 21 }</pre>	2."												
8		22													
•		23 resource "aws_instan 24 ami = "a	ce" "app_server" {												
		25 instance_type = "t	2.micro"												
0		26 27 tags = {													
		<pre>28 Name = var.insta 29 }</pre>	nce_name												
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### Step to complete access;

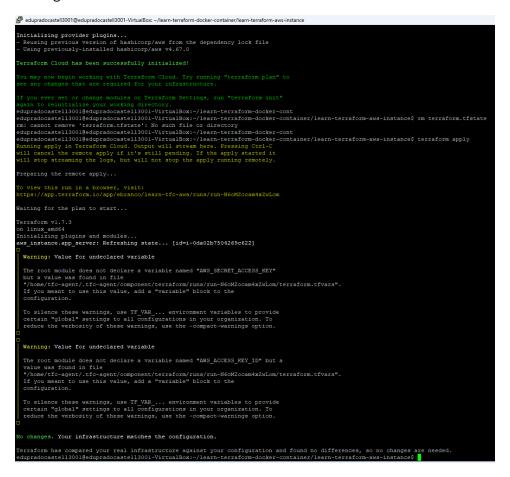
and manufactures 12001 (Parly manufactures 12001 Victors 1944) - Daram tempform darkers

a contrancementation in formation in the second sec		
If login is successful, Terraform will stor the following file for use by subsequent co /home/edupradocastell3001/.terraform.d/	e the token in plain text in memodul : resentuils.tfrc.joon	
Do you want to proceed? Only 'yes' will be accepted to confirm.		
Enter a value: yes		
Terraform must now open a web browser to th		
<pre>If a browser does not open this automatical https://app.terraform.io/app/settings/t</pre>		
Generate a token using your browser, and co		
Terraform will store the token in plain tex for use by subsequent commands: /home/edupradocastell3001/.terraform.d/		
Token for app.terraform.io: Enter a value: Error: no DISPLAY environm		
Retrieved token for user <b>ebranco</b>		
-		
Welcome to Terraform Cloud!		
Documentation: terraform.io/docs/cloud		
New to TFC? Follow these steps to instan		
<pre>\$ git clone https://github.com/hashicorp \$ od tfc-getting-started \$ scripts/setup.sh</pre>		

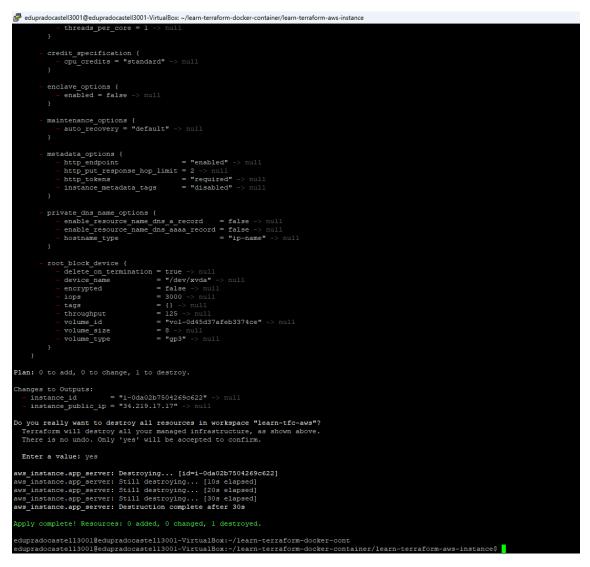
## Configure aws key/secret;

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Y Q @ • [	✓ « Variables			
< Workspaces		variables for all plans and applies in this workspace. Workspaces usi aration. You may want to use the Terraform Cloud Provider or the va		
	Sensitive variables			
Overview		PI, and can't be edited. They may appear in Terraform logs if your co	nfiguration is designed to output them. To chan	ge a
Runs	sensitive variable, delete and replace it.			
States	Wedness with the (2)			
States Variables	Workspace variables (2) Variables defined within a workspace always overwrit	e variables from variable sets that have the same type and the same	key. Learn more about variable set precedence	17
Variables		e variables from variable sets that have the same type and the same	key. Learn more about variable set precedence	₫.
Variables		e variables from variable sets that have the same type and the same Value	key. Learn more about variable set precedence Category	ď.
Variables	Variables defined within a workspace always overwrit			ď.
Variables	Variables defined within a workspace always overwrit Key AWS_ACCESS_KEY_ID	Value	Category	8
	Variables defined within a workspace always overwrit Key AWS_ACCESS_KEY_JD SENSITIVE AWS_SECRET_ACCESS_KEY	Value Sensitive - write only	Category terraform	2.

#### Moving to cloud.



🧬 edupradocastell3001@edupradocastell3001-VirtualBox: ~/learn-terraform-docker-container/learn-terraform-aws-instance certain "global" settings to all configurations in your organization. To reduce the verbosity of these warnings, use the -compact-warnings option. Warning: Value for undeclared variable The root module does not declare a variable named "AWS ACCESS KEY ID" but a ine coor module does not declare a Variable named "AWS\_ACCESS\_KEY\_ID" but a value was found in file "/home/tfc-agent/.tfc-agent/component/terraform/runs/run-N60MZocam4xZwLom/terraform.tfvars". If you meant to use this value, add a "variable" block to the configuration. To silence these warnings, use TF\_VAR\_... environment variables to provide certain "global" settings to all configurations in your organization. To reduce the verbosity of these warnings, use the -compact-warnings option. o changes. Your infrastructure matches the configuration. Terraform has compared your real infrastructure against your configuration and found no differences, so no changes are needed. edupradocastell3001@edupradocastell3001-VirtualBox:-/learn-terraform-docker-container/learn-terraform-aws-instance@ terraform destroy Running apply in Terraform Cloud. Output will stream here. Pressing Ctrl-C will cancel the remote apply if it's still pending. If the apply started it will stop streaming the logs, but will not stop the apply running remotely. Preparing the remote apply... Co view this run in a browser, visit: https://app.terraform.io/app/ebranco/learn-tfc-aws/runs/run-tRXLxaA8V3fV6JsK Naiting for the plan to start... Terraform vl.7.3 on linux amd64 Initializing plugins and modules... aws\_instance.app\_server: Refreshing state... [id⇔i-Oda02b7504269c622] Warning: Value for undeclared variable The root module does not declare a variable named "AWS\_ACCESS\_KEY\_ID" but a value was found in file "/home/tfc-agent/.tfc-agent/.tfc-agent/.tfc-agent/.tfc-agent/.tfc-agent/.tfc-agent/.tfc-agent/.tfc-agent/.tfc-agent/.tfc-agent/.tfc-agent/.tfc-agent/.tfc-agent/.tfc-agent/.tfc-agent/.tfc-agent/.tfc-agent/.tfc-agent/.tfc-agent/.tfc-agent/.tfc-agent/.tfc-agent/.tfc-agent/.tfc-agent/.tfc-agent/.tfc-agent/.tfc-agent/.tfc-agent/.tfc-agent/.tfc-agent/.tfc-agent/.tfc-agent/.tfc-agent/.tfc-agent/.tfc-agent/.tfc-agent/.tfc-agent/.tfc-agent/.tfc-agent/.tfc-agent/.tfc-agent/.tfc-agent/.tfc-agent/.tfc-agent/.tfc-agent/.tfc-agent/.tfc-agent/.tfc-agent/.tfc-agent/.tfc-agent/.tfc-agent/.tfc-agent/.tfc-agent/.tfc-agent/.tfc-agent/.tfc-agent/.tfc-agent/.tfc-agent/.tfc-agent/.tfc-agent/.tfc-agent/.tfc-agent/.tfc-agent/.tfc-agent/.tfc-agent/.tfc-agent/.tfc-agent/.tfc-agent/.tfc-agent/.tfc-agent/.tfc-agent/.tfc-agent/.tfc-agent/.tfc-agent/.tfc-agent/.tfc-agent/.tfc-agent/.tfc-agent/.tfc-agent/.tfc-agent/.tfc-agent/.tfc-agent/.tfc-agent/.tfc-agent/.tfc-agent/.tfc-agent/.tfc-agent/.tfc-agent/.tfc-agent/.tfc-agent/.tfc-agent/.tfc-agent/.tfc-agent/.tfc-agent/.tfc-agent/.tfc-agent/.tfc-agent/.tfc-agent/.tfc-agent/.tfc-agent/.tfc-agent/.tfc-agent/.tfc-agent/.tfc-agent/.tfc-agent/.tfc-agent/.tfc-agent/.tfc-agent/.tfc-agent/.tfc-agent/.tfc-agent/.tfc-agent/.tfc-agent/.tfc-agent/.tfc-agent/.tfc-agent/.tfc-agent/.tfc-agent/.tfc-agent/.tfc-agent/.tfc-agent/.tfc-agent/.tfc-agent/.tfc-agent/.tfc-agent/.tfc-agent/.tfc-agent/.tfc-agent/.tfc-agent/.tfc-agent/.tfc-agent/.tfc-agent/.tfc-agent/.tfc-agent/.tfc-agent/.tfc-agent/.tfc-agent/.tfc-agent/.tfc-agent/.tfc-agent/.tfc-agent/.tfc-agent/.tfc-agent/.tfc-agent/.tfc-agent/.tfc-agent/.tfc-agent/.tfc-agent/.tfc-agent/.tfc-agent/.tfc-agent/.tfc-agent/.tfc-agent/.tfc-agent/.tfc-agent/.tfc-agent/.tfc-agent/.tfc-agent/.tfc-agent/.tfc-agent/.tfc-agent/.tfc-agent/.tfc-agent/.tfc-agent/.tfc-agent/.tfc-agent/.tfc-agent/.tfc-agent/.tfc-agent/.tfc-agent/.tfc-agent/.tfc-agent/.tfc-agent/.tfc-agent/.tfc-agent/.tfc To silence these warnings, use TF\_VAR ... environment variables to provide certain "global" settings to all configurations in your organization. To reduce the verbosity of these warnings, use the -compact-warnings option. Warning: Value for undeclared variable The root module does not declare a variable named "AWS\_SECRET\_ACCESS\_KEY" but a value was found in file "/home/tfc-agent/.tfc-agent/component/terraform/runs/run-tRXLxaA8V3fV6JsK/terraform.tfvars". If you meant to use this value, add a "variable" block to the configuration. To silence these warnings, use TF\_VAR\_... environment variables to provide certain "global" settings to all configurations in your organization. To reduce the verbosity of these warnings, use the -compact-warnings option.



So, this runs from cli, shown in the terraform cloud.

### Amazing Lab.

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