

A banda de Miguel te contratou para ajudá-los na criação de uma instância EC2 para organizar a documentação e os arquivos importantes da banda. Recentemente, a banda se interessou pelo mundo da computação em nuvem e decidiu explorar o Amazon EC2, um serviço popular de infraestrutura como serviço (IaaS) oferecido pela Amazon Web Services (AWS). Eles também conheceram o Amazon Linux, que é uma distribuição otimizada para a nuvem, sendo uma excelente opção para as instâncias EC2. Os membros da banda estão empolgados para testar essa tecnologia e começar a armazenar e gerenciar os seus documentos e arquivos na nuvem. Neste exercício, iremos ajudá-los com isso.

Exercício:

**1. Configuração da instância EC2**

- acesse o Console da AWS e navegue até o serviço EC2;
- crie uma nova instância EC2 usando a imagem Amazon Linux 2;
- escolha o tipo de instância com base em suas necessidades de recursos.

**2. Conexão via SSH**

- após a instância ser criada, use a chave privada para conectar via SSH;
- Execute os comandos necessários para acessar o terminal da instância.

**3. Gerenciando o armazenamento**

- explore as opções de armazenamento oferecidas pelo Amazon EC2;
- crie um novo volume Elastic Block Store (EBS) com um tamanho de sua escolha;
- anexe o volume à sua instância EC2.

**4. Formatando e montando o volume**

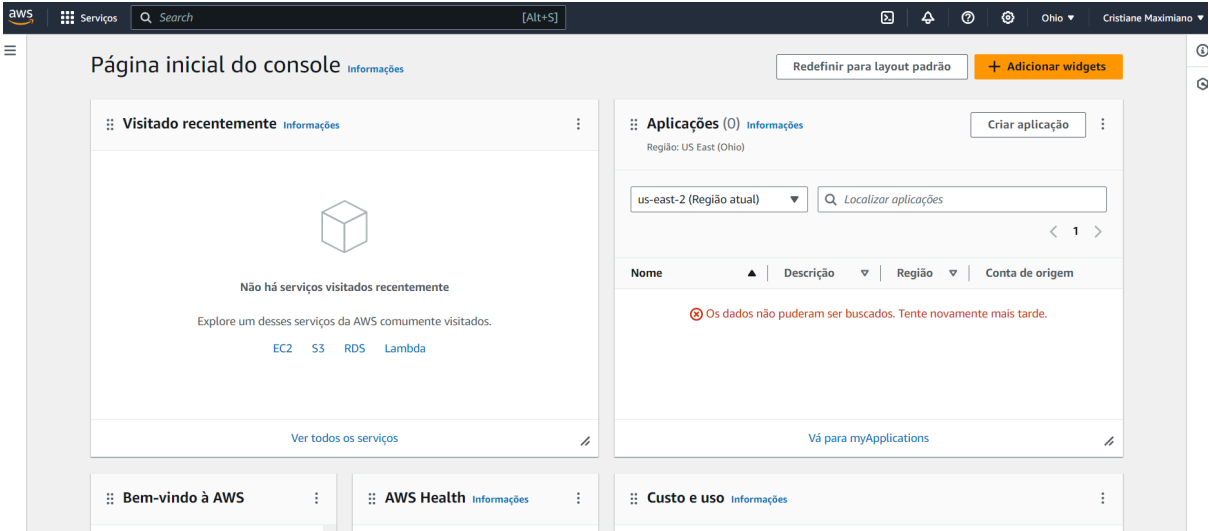
- formate o volume recém-criado usando um sistema de arquivos de sua escolha;
- monte o volume em um diretório específico em sua instância.

**5. Criação de arquivos**

- crie um arquivo de texto simples usando o editor de sua preferência;
- salve esse arquivo no volume montado.

**6. Explorando recursos:**

- use comandos, como ls, df -h, mount e cat, para verificar o status do volume montado, o espaço em disco disponível e o conteúdo do arquivo criado;
- por fim, tire um print deste último passo e envie para avaliação.



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Missing filename (less -help" for help)
[ec2-user@ip-172-31-22-56 pastal]$ arquivo2 less
-bash: arquivo2: command not found
[ec2-user@ip-172-31-22-56 pastal]$ less arquivo2
[ec2-user@ip-172-31-22-56 pastal]$ df -h
-bash: df-h: command not found
[ec2-user@ip-172-31-22-56 pastal]$ df -h
Filesystem      Size  Used Avail Use% Mounted on
devtmpfs        4.0M  0  4.0M  0% /dev
tmpfs            475M  0  475M  0% /dev/shm
tmpfs           190M  2.9M  188M  2% /run
/dev/xvda1       8.0G  1.6G   6.4G 20% /
tmpfs            475M  0  475M  0% /tmp
/dev/xvda128     10M  1.3M   8.7M 13% /boot/efi
tmpfs            95M  0   95M  0% /run/user/1000
[ec2-user@ip-172-31-22-56 pastal]$ free -h
             total        used         free       shared    buff/cache   available
Mem:          949Mi        129Mi        521Mi        2.0Mi        298Mi        674Mi
Swap:          0B           0B
[ec2-user@ip-172-31-22-56 pastal]$ top
top - 11:49:57 up 15 min,  2 users,  load average: 0.00, 0.02, 0.04
Tasks: 100 total,   1 running, 99 sleeping,   0 stopped,   0 zombie
%Cpu(s):  0.0 us,   0.0 sy,   0.0 ni,100.0 id,   0.0 wa,   0.0 hi,   0.0 si,   0.0 st
MiB Mem :   949.6 total,    521.4 free,    129.5 used,    298.6 buff/cache
MiB Swap:    0.0 total,    0.0 free,    0.0 used,    674.2 avail Mem

  PID USER      PR  NI    VIRT    RES    SHR   S  %CPU  %MEM    TIME+  COMMAND
  1 root        20   0 105168 16452 10844  S   0.0   1.7   0:00.87 systemd
  2 root        20   0      0      0      0  S   0.0   0.0   0:00.00 kthreadd
  3 root        20  -20      0      0      0  S   0.0   0.0   0:00.00 rcu_gp
  4 root        20  -20      0      0      0  S   0.0   0.0   0:00.00 rcu_par_gp
  5 root        20  -20      0      0      0  S   0.0   0.0   0:00.00 slab_flushmq
  6 root        20  -20      0      0      0  S   0.0   0.0   0:00.00 netns
  7 root        20   0      0      0      0  S   0.0   0.0   0:00.00 kworker/0:0-mm_percpu_wq
  8 root        20  -20      0      0      0  S   0.0   0.0   0:00.00 kworker/0:0H-events_highpri
  9 root        20   0      0      0      0  S   0.0   0.0   0:00.11 kworker/u30:0-events_unbound
10 root        20  -20      0      0      0  S   0.0   0.0   0:00.00 mm_percpu_wq
11 root        20   0      0      0      0  S   0.0   0.0   0:00.00 rcu_tasks_kthread
12 root        20   0      0      0      0  S   0.0   0.0   0:00.00 rcu_tasks_rude_kthread
13 root        20   0      0      0      0  S   0.0   0.0   0:00.00 rcu_tasks_trace_kthread
14 root        20   0      0      0      0  S   0.0   0.0   0:00.11 ksoftirqd/0
15 root        20   0      0      0      0  S   0.0   0.0   0:00.06 rcu_preempt
16 root        20   0      0      0      0  S   0.0   0.0   0:00.00 migration/0
18 root        20   0      0      0      0  S   0.0   0.0   0:00.00 cpulp/0
20 root        20   0      0      0      0  S   0.0   0.0   0:00.00 kdevtmpfs
21 root        20  -20      0      0      0  S   0.0   0.0   0:00.00 inet_frag_wq
22 root        20   0      0      0      0  S   0.0   0.0   0:00.00 kauditd
23 root        20   0      0      0      0  S   0.0   0.0   0:00.00 khungtaskd
24 root        20   0      0      0      0  S   0.0   0.0   0:00.00 com_reaper
27 root        20  -20      0      0      0  S   0.0   0.0   0:00.00 writeback
[ec2-user@ip-172-31-22-56 pastal]$ info
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[ec2-user@ip-172-31-22-96:~]$ cat /proc/meminfo | grep -v MemTotal|grep -E '^0x'|sed -e 's/^0x//g'
13 root      20   0    0     0 I  0.0 0.0 0:00.00 rcu_kalls_trace kthread
14 root      20   0    0     0 S  0.0 0.0 0:00.11 hsofirqd/o
15 root      20   0    0     0 I  0.0 0.0 0:00.06 rcu_prempt
16 root      rt   0    0     0 S  0.0 0.0 0:00.00 migration/0
18 root      20   0    0     0 S  0.0 0.0 0:00.00 cpmhp/0
20 root      20   0    0     0 S  0.0 0.0 0:00.00 kdevtaps
21 root      20  -20   0    0     0 I  0.0 0.0 0:00.00 inet_frag_wq
22 root      20   0    0     0 S  0.0 0.0 0:00.00 khungltd
23 root      20   0    0     0 S  0.0 0.0 0:00.00 kauditd
24 root      20   0    0     0 S  0.0 0.0 0:00.00 nosm_reaper
27 root      20  -20   0    0     0 I  0.0 0.0 0:00.00 writeback

[ec2-user@ip-172-31-22-56 ~]$ ps aux --no-heading
[ec2-user@ip-172-31-22-56 ~]$ ls -la
total 28
drwxr-xr-x 1 ec2-user ec2-user 4096 Jan 26 10:32 .
drwxr-xr-x 1 ec2-user ec2-user 4096 Jan 26 10:32 ..
-rw-r--r-- 1 ec2-user ec2-user  220 Jan 26 10:32 .bashrc
-rw-r--r-- 1 ec2-user ec2-user  161 Jan 26 10:32 .profile

[ec2-user@ip-172-31-22-56 ~]$ df -h
Filesystem          Size Used Avail Use% Mounted on
devtmpfs            475M  0  475M   0% /dev
tmpfs               190M  2.9M  188M   2% /run
/dev/xvdal         8.0G  1.6G  6.4G   20% /
tmpfs              475M  0  475M   0% /tmp
/dev/xvdal28       10M  1.3M  8.7M  13% /boot/efi
                       95M  0   95M   0% /run/user/1000

[ec2-user@ip-172-31-22-56 ~]$ mount
proc on /proc type proc (rw,nosuid,nodev,noexec,relatime)
sysfs on /sys type sysfs (rw,nosuid,nodev,noexec,relatime,label)
devpts on /dev type devpts (rw,nosuid,seclabel,size=4096k,nr_inodes=118842,mode=755)
securityfs on /sys/kernel/security type securityfs (rw,nosuid,nodev,noexec,relatime)
tmpfs on /tmp type tmpfs (rw,nosuid,nodev,seclabel)
devpts on /dev/pts type devpts (rw,nosuid,noexec,relatime,seclabel,pid=620,ptmxmode=000)
tmpfs on /run type tmpfs (rw,nosuid,nodev,seclabel,size=194472K,nr_inodes=192900,mode=755)
cgroup on /sys/fs/cgroup type cgroup (rw,nosuid,nodev,noexec,relatime,seclabel,memory_recursiveprot)
pstore on /sys/fs/pstore type pstore (rw,nosuid,nodev,noexec,relatime,seclabel)
bpfb on /sys/fs/bpf type bpf (rw,nosuid,nodev,noexec,relatime,mode=700)
/dev/xvdal on / type xfs (rw,nosuid,seclabel,attr2,inode64,logbufs=8,logbsize=32k,sunit=1024,swidth=1024,noquota)
extlinux on /sys/firmware/extlinux type extlinux (rw,nosuid,nodev,relatime)
systemd-1 on /proc/sys/fs/binfmt_misc type autofs (rw,nosuid,nodev,relatime,timeout=10,minprprots=5,maxprprocs=2,direct,pipe_ino=12961)
traefics on /sys/kernel/tracing type traefics (rw,nosuid,nodev,noexec,relatime,seclabel)
queueue on /dev/queue type queueue (rw,nosuid,nodev,noexec,relatime,seclabel)
hugetlbfs on /dev/hugepages type hugetlbfs (rw,relatime,seclabel,pagesize=20)
debugfs on /sys/kernel/debug type debugfs (rw,nosuid,nodev,noexec,relatime,seclabel)
tmpfs on /tmp type tmpfs (rw,nosuid,nodev,seclabel,nr_inodes=1048576)
ramfs on /run/credentials/systemd-yacct.service type ramfs (ro,nosuid,nodev,noexec,relatime,seclabel,mode=700)
configfs on /sys/module/configfs/type configfs (rw,nosuid,nodev,noexec,relatime)
ramfs on /run/credentials/systemd-tmpfiles-setup-dev service type ramfs (ro,nosuid,nodev,noexec,relatime,seclabel,mode=700)
systemd-1 on /boot/efi/.type autofs (rw,relatime,fd=40,pgrp=1,timeout=0,minproto=5,maxproto=5,direct,pipe_ino=14026)
fusectl on /sys/fs/fuse/connections type fusectl (rw,nosuid,nodev,noexec,relatime)
ramfs on /var/lib/misc/docker-mpisetup service type ramfs (ro,nosuid,nodev,noexec,relatime,seclabel,mode=700)
sunrpc on /var/lib/nfs/rpc-pipefs type rpc_pipefs (rw,relatime)
/dev/xvdal28 on / type xfs (rw,nosuid,fmask=0077,dmask=0077,codepage=ASCII,iocache=asccii,shortname=wint,error=recount-ro,x-systemd.autounmount)
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