

# Relatório – LAB 1

## Sistemas Operacionais

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Link repositório no GitHub: <https://github.com/ViniciusExtremXD/Sistemas-Operacionais---04N/tree/main>

### Procedimentos realizados:

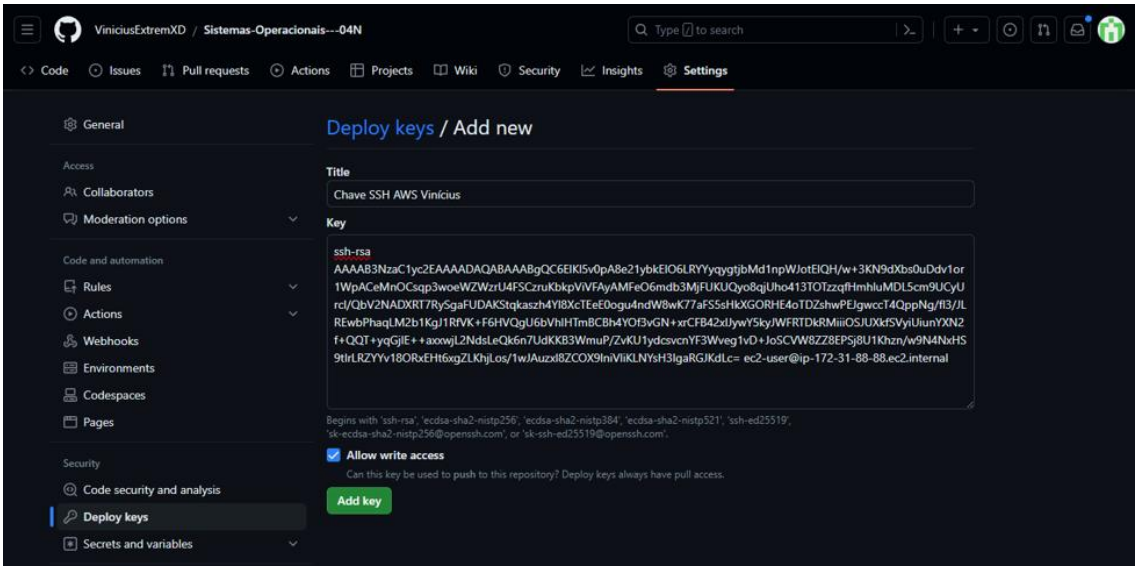
- Conexão via SSH à instância EC2 do AWS

Realizando a conexão + Gerando senha para colocar no GitHub

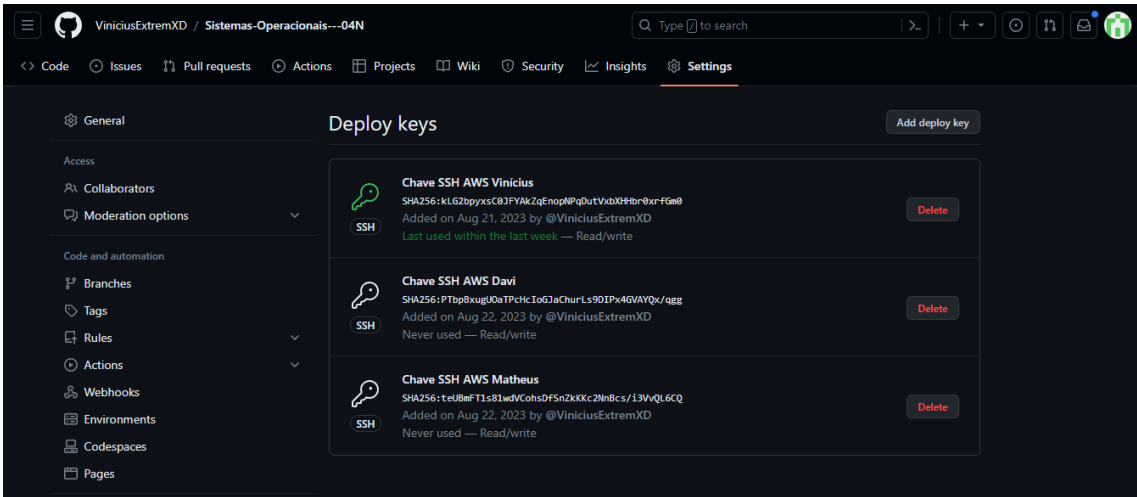
```
eee_W_2308308@runweb89827:~$ ssh -i ~/.ssh/labsuser.pem ec2-user@44.210.123.235
Register this system with Red Hat Insights: insights-client --register
Create an account or view all your systems at https://red.ht/insights-dashboard
Last login: Mon Aug 21 12:41:24 2023 from 18.237.234.78
[ec2-user@ip-172-31-88-88 ~]$ ssh-keygen
Generating public/private rsa key pair.
Enter file in which to save the key (/home/ec2-user/.ssh/id_rsa):
/home/ec2-user/.ssh/id_rsa already exists.
Overwrite (y/n)? y
Enter passphrase (empty for no passphrase):
Enter same passphrase again:
Your identification has been saved in /home/ec2-user/.ssh/id_rsa
Your public key has been saved in /home/ec2-user/.ssh/id_rsa.pub
The key fingerprint is:
SHA256:++Vlz1V5WZH1ppG1ViQtXWcUPYsuZYIoimjzsDONyFM ec2-user@ip-172-31-88-88.ec2.internal
The key's randomart image is:
+----[RSA 3072]-----+
|          . =OX|
|          . oBB|
|         . .  ++*|
|        . . . . +. =+|
|       . . . . S  = .oo|
|      . = E    . . . o|
|     + O      . o o .|
|    .B o      . o o o.|
|   +         . .  o|
+-----[SHA256]-----+
```

```
[ec2-user@ip-172-31-88-88 ~]$ cat /home/ec2-user/.ssh/id_rsa.pub
ssh-rsa AAAAB3NzaC1yc2EAAAADAQABAAQGC6E1K15v0pA8e21ybKEIO6LRYyqyg
tjbMd1npWJotE1QH/w+3KN9dXbs0uDdv1or1WpACeMnOCsqp3woeWZwzrU4FSCzruKbk
pViVFAYAMFeO6mdb3MjFUKUQyo8qjUho413TOTzzqfHmhluMDL5cm9UCyUrc1/QbV2NA
DXRT7RySgaFUDAKStqkaszh4Y18XcTEeE0ogu4ndW8wK77aF5SsHkXGORHE4oTDZshwP
EJgwccT4QppNg/f13/JLEwbPhaqLM2b1KgJ1RfVK+F6HVQgU6bVhIHTmBCBh4YOf3vG
N+XrCFB42x1JyWY5kyJWFRDkRMiiOSJUXkfSVyiUiunYXN2f+QQT+yqGj1E++axxwJ
L2NdsLeQk6n7UdKKB3WmuP/ZvKU1ydcsvcnYF3Wveg1vD+JoSCVW8ZZ8EPSj8U1Khzn/
w9N4NxHS9t1rLRZYv18ORxEHt6xgZLKhlLos/1wJAuzx18ZCOX9lniVliKLNysH3Iga
RGJKdLc= ec2-user@ip-172-31-88-88.ec2.internal
[ec2-user@ip-172-31-88-88 ~]$
```

Esta (selecionada) é a chave SSH, que em seguida, é adicionada no repositório.



Todos os integrantes do grupo já criaram e adicionaram as chaves no repositório, conforme o print abaixo:



Após ter criado o repositório no GitHub, vinculado a chave SSH, clonamos o repositório na instância para poder o manipular:

```
[ec2-user@ip-172-31-88-88 ~]$ echo "# Sistemas-Operacionais---04N" > README.md
[ec2-user@ip-172-31-88-88 ~]$ git init
[ec2-user@ip-172-31-88-88 ~]$ git add README.md
[ec2-user@ip-172-31-88-88 ~]$ git commit -m "first commit"
[ec2-user@ip-172-31-88-88 ~]$ git branch -M main
[ec2-user@ip-172-31-88-88 ~]$ git remote add origin git@github.com:ViniciusExtremXD/Sistemas-Operacionais---04N.git
[ec2-user@ip-172-31-88-88 ~]$ git push -u origin main
Reinitialized existing Git repository in /home/ec2-user/.git/
[main 22d6e8f] first commit
  Committer: Cloud User <ec2-user@ip-172-31-88-88.ec2.internal>
  Your name and email address were configured automatically based
  on your username and hostname. Please check that they are accurate.
  You can suppress this message by setting them explicitly. Run the
  following command and follow the instructions in your editor to edit
  your configuration file:

    git config --global --edit

  After doing this, you may fix the identity used for this commit with
  :

    git commit --amend --reset-author

1 file changed, 1 insertion(+)
error: remote origin already exists.
Enumerating objects: 28, done.
Counting objects: 100% (28/28), done.
Compressing objects: 100% (22/22), done.
Writing objects: 100% (28/28), 2.68 KiB | 915.00 KiB/s, done.
Total 28 (delta 5), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (5/5), done.
To github.com:ViniciusExtremXD/Sistemas-Operacionais---04N.git
 * [new branch]      main -> main
branch 'main' set up to track 'origin/main'.
```

## Desenvolvimento de um “Hello World” em C:

Desenvolvendo, compilando e testando:

```
[ec2-user@ip-172-31-88-88 ~]$ cat teste.c
#include <stdio.h>

int main(){
    printf("\n hello world! \n");
    return 0;
}
[ec2-user@ip-172-31-88-88 ~]$ gcc teste.c -o teste
[ec2-user@ip-172-31-88-88 ~]$ ./teste

hello world!
```

## Envio de Arquivos (Commits) para o repositório do GitHub via SSH:

Preparando os arquivos para fazer o Commit.

```
[ec2-user@ip-172-31-88-88 ~]$ git add teste.c
[ec2-user@ip-172-31-88-88 ~]$ git add teste
[ec2-user@ip-172-31-88-88 ~]$ git status
On branch main
Your branch is ahead of 'origin/main' by 1 commit.
(use "git push" to publish your local commits)

Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
        new file:   teste
        modified:   teste.c

Untracked files:
  (use "git add <file>..." to include in what will be committed)
        .bash_history
        .bash_logout
        .bash_profile
        .bashrc
        .ssh/
        Sistemas-Operacionais---04N/
        [Command Line]
```

Em seguida, é realizado o push para finalmente enviar o arquivo para o GitHub.

