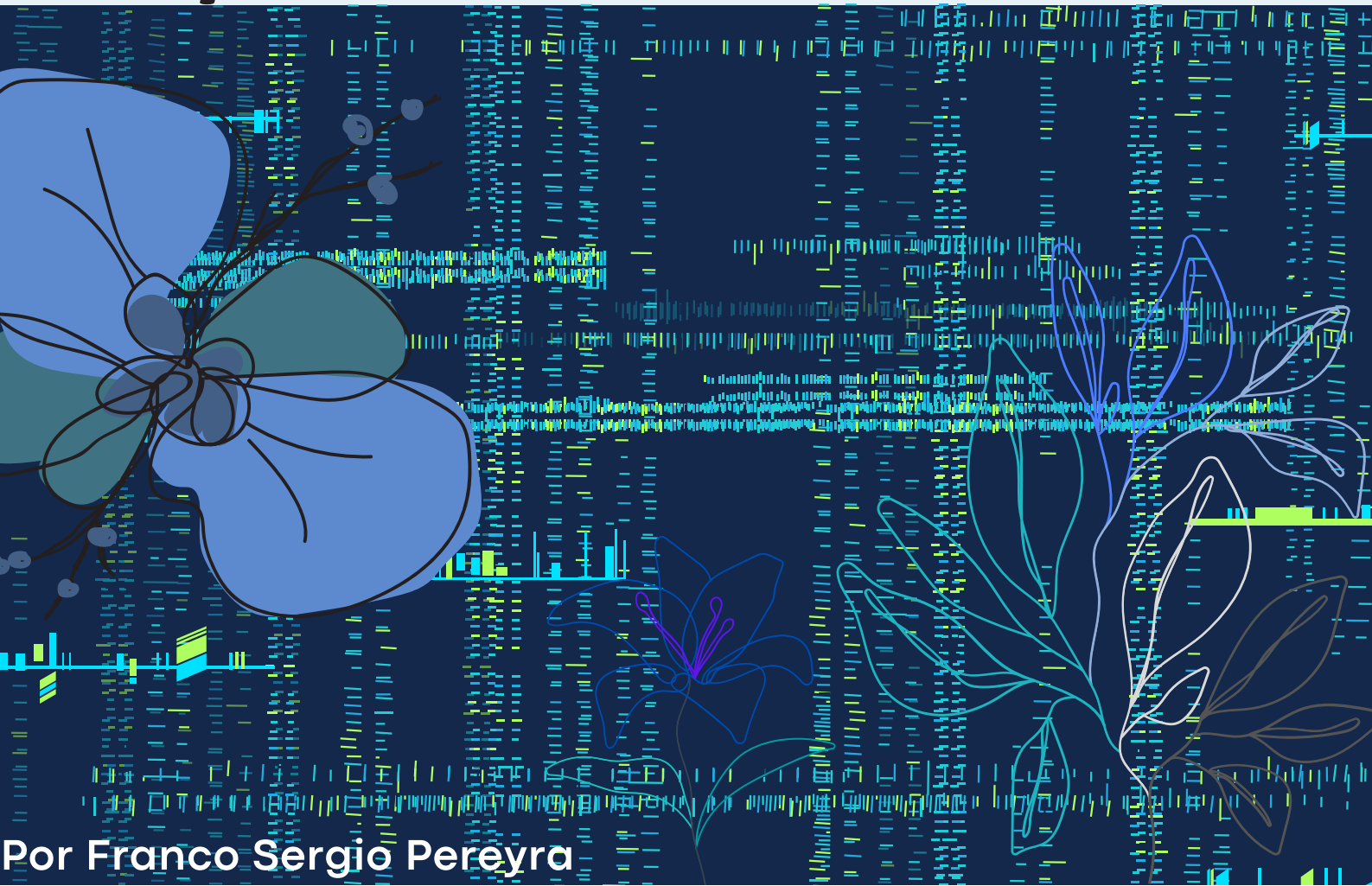


Proyecto FSP

The top left corner features a stylized purple flower with long, thin leaves. The top right corner has a cluster of blue flowers with yellow centers and green leaves.

Automatización de Infraestructuras y Despliegue de aplicaciones web con Ansible



Por Franco Sergio Pereyra

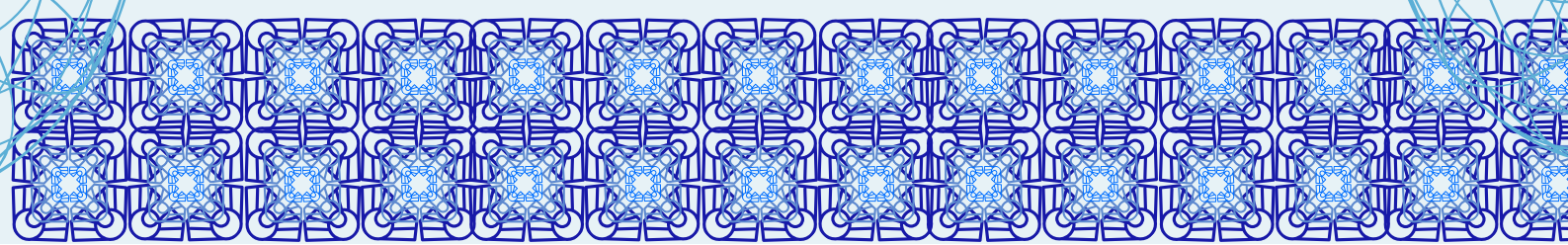


Indice

**Instancia ansible
y
conexión a la nube AWS**

**Automatización
de infraestructura AWS EC2**

**Automatización de software
para cada Nodo**



Instancia ansible y conexión a la nube AWS



ANSIBLE



AWS CLI

03:59

▶ Start Lab

■ End Lab

i AWS Details

i Readme

↺ Reset



Cloud Access

AWS CLI:

Copy and paste the following into ~/.aws/credentials

```
[default]
aws_access_key_id=ASIA4D6M3QRKARGT43EK
aws_secret_access_key=jt7n51pGhFNIMrLp/gROc2VLKpfU+h
ix6TaxXmF0
aws_session_token=FwoGZXIvYXZdEFIaDPSHJrDdiETqxten9y
K3AVbXXTDX0EU1Qf6uepVzZ/FKTVL5LtbF5o+k1JywxFTeDrCMEu
rD1IfFtqw6fwWPAUPZIAJ20ycLG1TU7XLcXh4XD6agYk73ycHBIJ
T1sugZzhlrSECPC7xrSaFXQsXE0AmiRTCNa0pNqfcC/bqNsrJ3o
Nu0D5t3sfsDCZHjHBkUP/Vp28042PewepeTLKaHypdQdMyVIOx6L
2N/vWqt2NKgQLWp/iU/VatyakeXe53h7TTnvEp3iiIip0VBjItsa
iBaJw7p76HsZLQJDh7KFW/6UDDk78CSvt1GjaMLt08sv8v0b7KFP
0/Zu09
```

Cloud Labs

Remaining session time: 03:59:30(240 minutes)

Session started at: 2022-06-11T09:38:31-0700

Session to end at: 2022-06-11T13:38:31-0700

Automatización de infraestructura AWS EC2

```
✓ CreateEC2
  > group_vars
  > inventory
  ✓ roles
    > create-instances\tasks
    > Create-ip-elastica
  ✓ create-security-group
    ✓ tasks
      ! main.yml
    ✓ templates
      ! create.yml
```

```
name: Security Group para el NFS
local_action:
  module: ec2_group
  name: "{{ SECURIRY_GROUP4 }}"
  description: Security Group para el NFS
  region: "{{ region }}"
  rules:
    - proto: tcp
      from_port: 22
      to_port: 22
      cidr_ip: 0.0.0.0/0
    - proto: tcp
      from_port: 2049
      to_port: 2049
      cidr_ip: 0.0.0.0/0
  rules_egress:
    - proto: all
      cidr_ip: 0.0.0.0/0
register: basic_firewall2
```

```
name: Lanzamos las instancias de Brother Ember
ec2_instance:
  key_name: "{{ keypair }}"
  security_group: "{{ SECURIRY_GROUP }}"
  instance_type: "{{ instance_type }}"
  image_id: "{{ image }}"
  wait: yes
  region: "{{ region }}"
  count: "{{ count }}"
  tags:
    Name: "{{ INSTANCE_NAME_WWW1 }}"
register: ec2
```

```
hosts: localhost
become: true

roles:
  - create-security-group
  - create-instances
  - Create-ip-elastica
```

```
- name: "Creamos las Elastic IP"
  shell: ./06_Create_ip_elastica.sh
  args:
    chdir: ../Create-ip-elastica
```

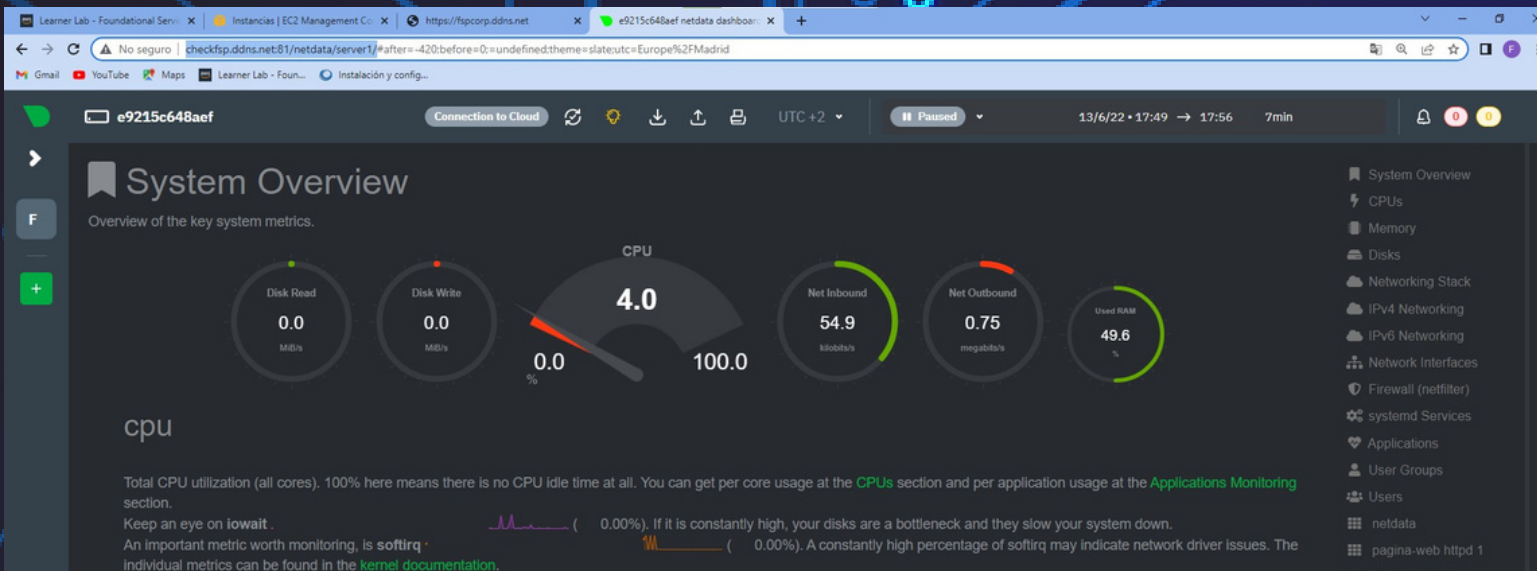
**Automatización
de software
para cada Nodo**

- ✓ Mysql-server
 - > group_vars
- ✓ inventory
 - ≡ hosts
- ✓ roles \ install-mysql
 - ✓ tasks
 - ! main.yaml
- ✓ templates \ sql
- salacomentarios.sql
- ! mysql.yaml

- ✓ Brothers
 - > group_vars
 - > inventory
 - ✓ roles
 - ✓ Docker-Build
 - > Pagina-Web
 - > tasks
 - ✓ Docker-install
 - > tasks
 - > templates
 - ! Brothers.yaml

- ✓ Balancer
 - > group_vars
 - > inventory
 - ✓ roles
 - ✓ balancer
 - ✓ tasks
 - ! main.yaml
 - ✓ templates
 - ≡ default_balancer.j2
 - ✓ HTTPS
 - ✓ tasks
 - ! main.yaml
 - > templates
 - ! balancer.yaml

- ✓ Nagios
 - > group_vars
 - > inventory
 - ✓ roles
 - > HTTPS
 - ✓ nagios_cliente
 - > tasks
 - > templates
 - ✓ nagios_config
 - > tasks
 - ✓ templates
 - ⚙ Balancer.cfg
 - ⚙ Brother-ahs.cfg
 - ⚙ Brother-ember.cfg
 - ⚙ contacts.cfg
 - ⚙ Mysql-server.cfg
 - ✓ nagios-intalación
 - > tasks
 - ✓ templates
 - ⚙ commands.cfg
 - ⚙ nagios.cfg
 - ⚙ resource.cfg
 - ✓ netdata
 - > tasks
 - ✓ templates
 - ≡ check.j2
 - ≡ default
 - > smpt
 - ! nagios.yaml



Nagios®

Current Network Status

Last Updated: Mon Jun 13 15:55:49 UTC 2022
Updated every 90 seconds
Nagios® Core™ 4.4.6 - www.nagios.org
Logged in as nagiosadmin

View History For All hosts
View Notifications For All Hosts
View Host Status Detail For All Hosts

General

- Home
- Documentation

Current Status

- Tactical Overview
- Map (Legacy)
- Hosts
- Services
- Host Groups
 - Summary
 - Grid
- Service Groups
 - Summary
 - Grid
- Problems
 - Services (Unhandled)
 - Hosts (Unhandled)
 - Network Outages

Quick Search:

Reports

- Availability
- Trends (Legacy)
- Alerts
 - History
 - Summary
 - Histogram (Legacy)
- Notifications
- Event Log

Host Status Totals

| Up | Down | Unreachable | Pending |
|----|------|-------------|---------|
| 5 | 0 | 0 | 0 |

All Problems: 0
All Types: 5

Service Status Totals

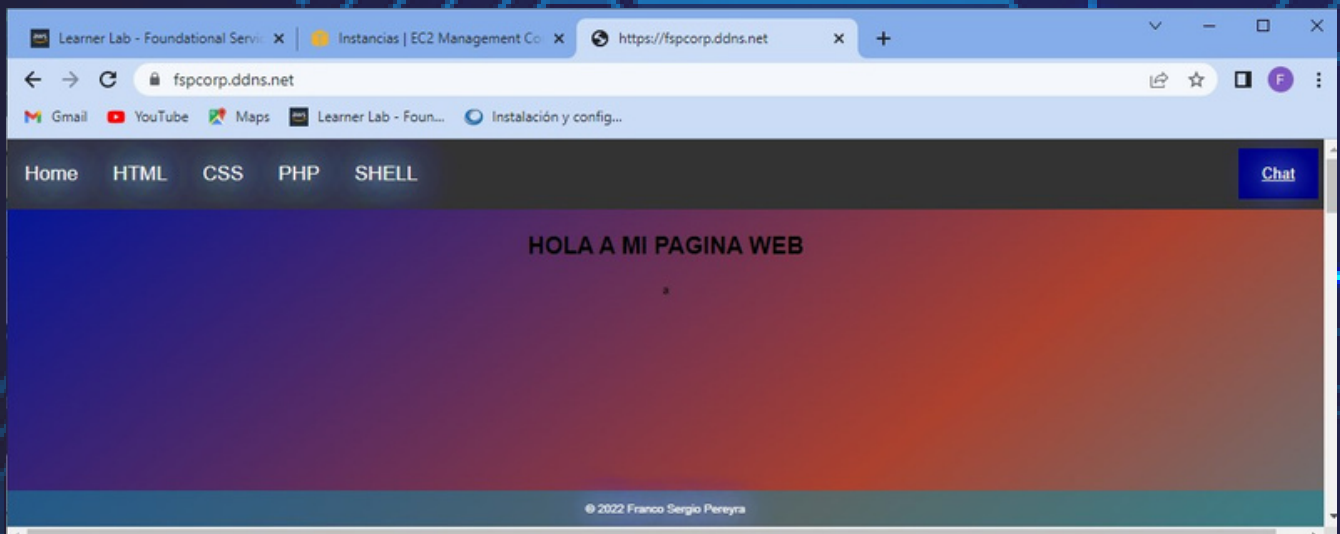
| Ok | Warning | Unknown | Critical | Pending |
|----|---------|---------|----------|---------|
| 25 | 2 | 0 | 2 | 0 |

All Problems: 4
All Types: 29

Service Status Details For All Hosts

Limit Results: 100

| Host | Service | Status | Last Check | Duration | Attempt | Status Information |
|---------------|------------------|----------|---------------------|----------------|---------|---|
| Balancer | Current Load | CRITICAL | 06-13-2022 15:55:24 | 1d 23h 15m 32s | 2/4 | CRITICAL - load average: 0.62, 0.30, 0.11 |
| | Current Users | OK | 06-11-2022 16:16:10 | 8d 4h 6m 33s | 1/4 | USERS OK - 0 users currently logged in |
| | Root / Partition | OK | 06-11-2022 16:17:10 | 8d 3h 35m 47s | 1/4 | DISK OK - free space: /dev 980 MB (100% inode=99%): |
| | Total Processes | OK | 06-11-2022 16:18:11 | 8d 3h 35m 1s | 1/4 | PROCS OK: 111 processes |
| | nginx port | OK | 06-11-2022 16:15:48 | 3d 6h 29m 18s | 1/3 | TCP OK - 0.001 second response time on 184.73.75.144 port 443 |
| Brother-ahs | Current Load | WARNING | 06-11-2022 16:17:37 | 1d 23h 43m 12s | 4/4 | WARNING - load average: 0.02, 0.03, 0.11 |
| | Current Users | OK | 06-13-2022 15:55:36 | 1d 23h 57m 47s | 1/4 | USERS OK - 0 users currently logged in |
| | Root / Partition | OK | 06-11-2022 16:16:48 | 1d 23h 54m 1s | 1/4 | DISK OK - free space: /dev 986 MB (100% inode=99%): |
| | Total Processes | OK | 06-11-2022 16:17:14 | 1d 23h 53m 35s | 1/4 | PROCS OK: 118 processes |
| | apache2 port | OK | 06-11-2022 16:17:44 | 1d 23h 58m 5s | 1/3 | TCP OK - 0.001 second response time on 3.233.31.203 port 80 |
| Brother-ember | Current Load | WARNING | 06-11-2022 16:17:49 | 1d 23h 43m 0s | 4/4 | WARNING - load average: 0.00, 0.04, 0.12 |
| | Current Users | OK | 06-11-2022 16:17:49 | 1d 23h 58m 0s | 1/4 | USERS OK - 1 users currently logged in |
| | Root / Partition | OK | 06-11-2022 16:40:41 | 1d 23h 57m 24s | 1/4 | DISK OK - free space: /dev 986 MB (100% inode=99%): |
| | Total Processes | OK | 06-11-2022 16:17:58 | 1d 23h 57m 51s | 1/4 | PROCS OK: 122 processes |
| | apache2 port | OK | 06-11-2022 16:12:35 | 1d 23h 53m 14s | 1/3 | TCP OK - 0.001 second response time on 52.20.167.206 port 80 |
| Mysql-server | netdata port | OK | 06-11-2022 16:18:05 | 1d 23h 57m 44s | 1/3 | TCP OK - 0.001 second response time on 52.20.167.206 port 19999 |
| | Current Load | OK | 06-11-2022 16:17:10 | 1d 23h 38m 39s | 1/4 | OK - load average: 0.05, 0.05, 0.00 |
| | Current Users | OK | 06-11-2022 16:15:58 | 1d 23h 39m 51s | 1/4 | USERS OK - 0 users currently logged in |
| | Root / Partition | OK | 06-11-2022 16:15:46 | 1d 23h 40m 3s | 1/4 | DISK OK - free space: /dev 980 MB (100% inode=99%): |
| | Total Processes | OK | 06-11-2022 16:16:46 | 1d 23h 39m 3s | 1/4 | PROCS OK: 106 processes |



Resultados

The end