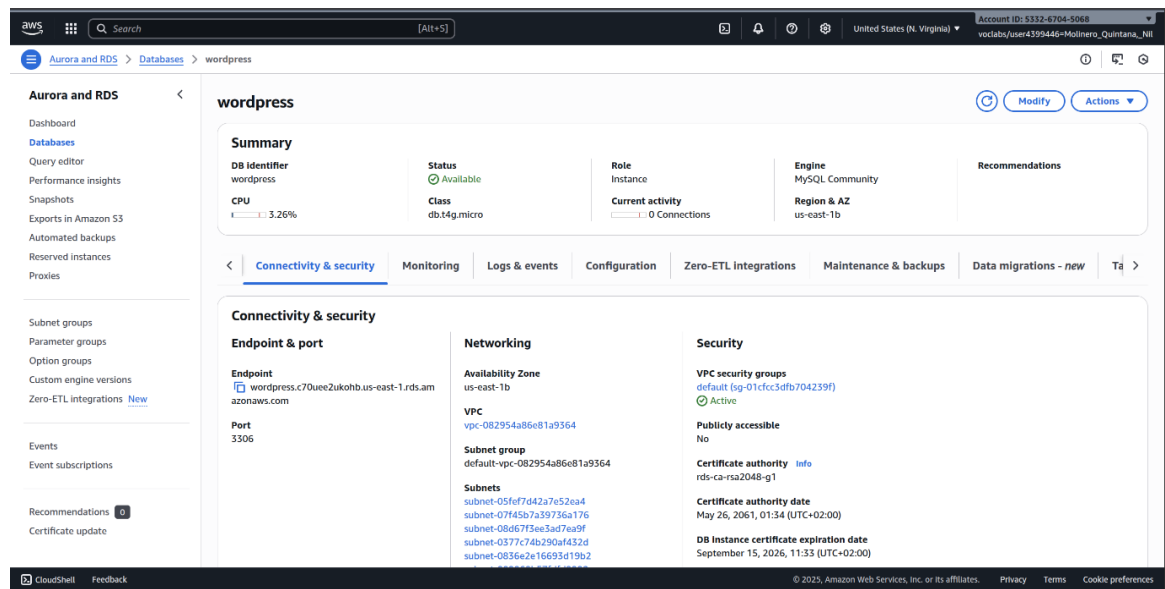


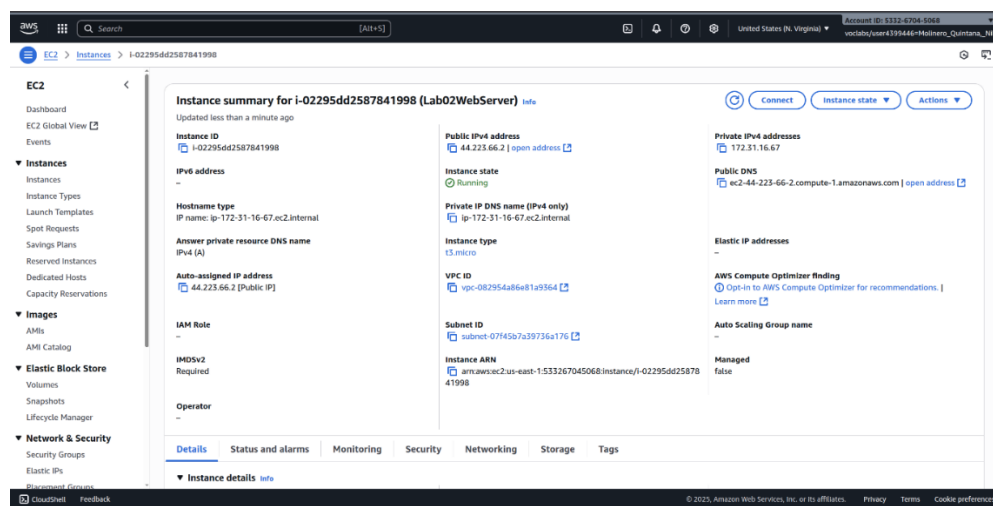
Laboratori 02
Desplegament d'una aplicació web
amb AWS

Base de dades

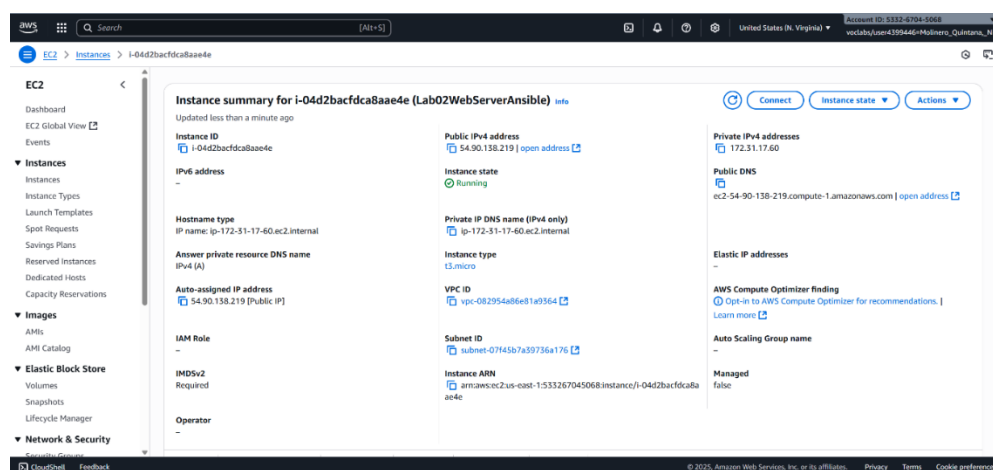


The screenshot shows the AWS Aurora and RDS console for a database instance named 'wordpress'. The instance is in the 'Available' state, running on a 'db.t4g.micro' class. It is configured with a MySQL Community engine, located in the us-east-1b region. The console displays various tabs for management, including Connectivity & security, Monitoring, Logs & events, Configuration, Zero-ETL Integrations, Maintenance & backups, and Data migrations. The Connectivity & security section is expanded, showing endpoint details, networking information (availability zone, VPC, subnets), and security settings (VPC security groups, public accessibility, certificate authority).

Ec2 Web Server + WebServer creat amb Ansible

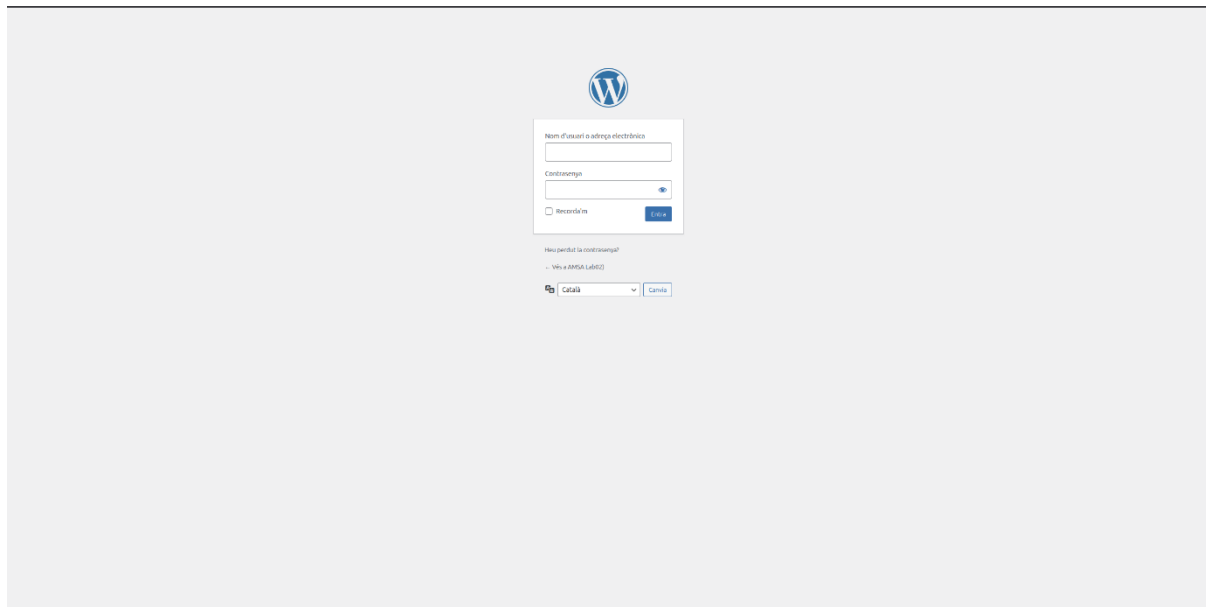


The screenshot displays the AWS EC2 console for an instance named 'Lab02WebServer'. The instance is in the 'Running' state, using a 't3.micro' instance type. It is configured with a public IP address (44.223.66.2) and a private IP address (172.31.16.67). The instance is part of a VPC (vpc-082954a86e81a9364) and a subnet (subnet-07f45b7a39736a176). The console shows various details including the instance ID, hostname, auto-assigned IP address, IAM role, and VPC ID.



The screenshot shows the AWS EC2 console for an instance named 'Lab02WebServerAnsible'. The instance is in the 'Running' state, using a 't3.micro' instance type. It is configured with a public IP address (54.90.138.219) and a private IP address (172.31.17.60). The instance is part of a VPC (vpc-082954a86e81a9364) and a subnet (subnet-07f45b7a39736a176). The console displays various details including the instance ID, hostname, auto-assigned IP address, IAM role, and VPC ID.

Inici de sessió Wordpress



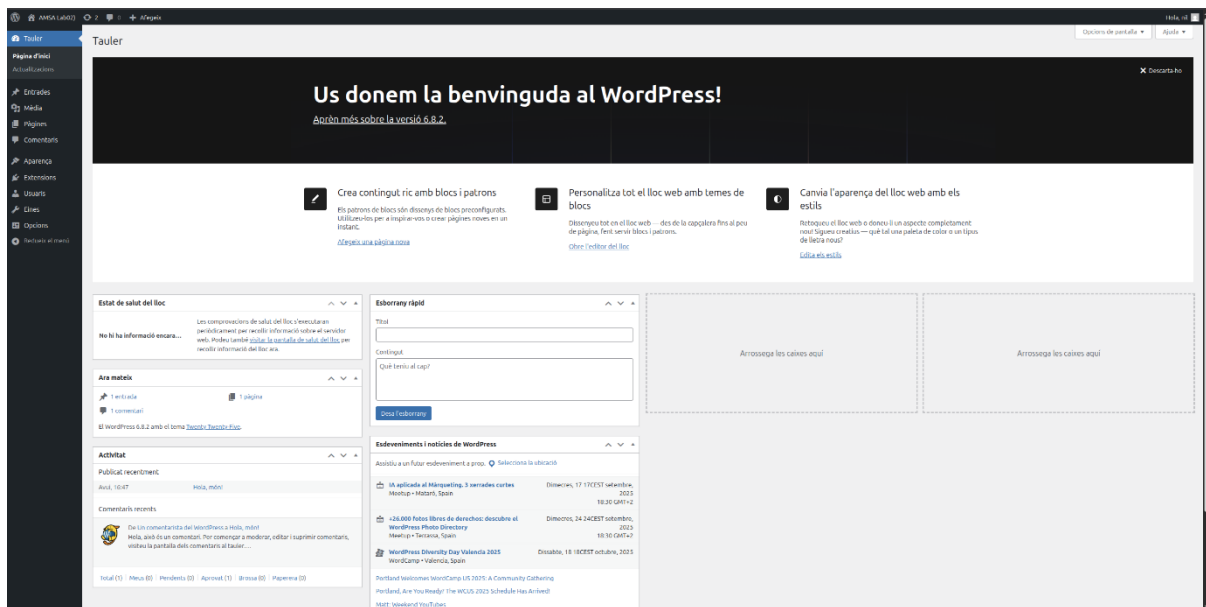
The image shows the WordPress login page. At the top center is the WordPress logo. Below it is a login form with the following fields and options:

- Input field for "Nom d'usuari o adreça electrònica" (Username or email address).
- Input field for "Contrassenya" (Password) with an eye icon to toggle visibility.
- A checkbox for "Recordar-m" (Remember me).
- A blue "Entrar" (Log In) button.

Below the form, there is a link "Heu perdut la contrassenya?" (Lost your password?).

At the bottom, there is a language selector showing "Català" and a "Canvia" (Change) button.

Tauler d'administració Wordpress



The image shows the WordPress dashboard (Tauler) for a user named "Tauler". The dashboard is divided into several sections:

- Header:** "Us donem la benvinguda al WordPress!" (Welcome to WordPress!) with a link to "Apreu més sobre la versió 6.8.2" (Learn more about version 6.8.2).
- Quick Start:** Three cards for "Crea contingut ric amb blocs i patrons" (Create rich content with blocks and patterns), "Personalitza tot el lloc web amb temes de blocs" (Personalize the entire website with block themes), and "Canvia l'aparença del lloc web amb els estils" (Change the appearance of the website with styles).
- Stat de salut del lloc (Site Health):** A section for checking the site's health, with a link to "No hi ha informació encara..." (No information yet...).
- Esborrany ràpid (Quick Draft):** A section for creating a new post, with fields for "Títol" (Title), "Contingut" (Content), and a "Què tindrà el cap?" (What will the header be?) field.
- Esdeveniments i notícies de WordPress (WordPress Events and News):** A section for staying up-to-date with WordPress news, including "18 aplicació al Màrqueting, 3 seminaris curts" (18 applications to Marketing, 3 short seminars) and "WordPress Diversity Day Valencia 2025" (WordPress Diversity Day Valencia 2025).

The left sidebar contains a menu with options like "Pàgina d'inici" (Home page), "Actualitzacions" (Updates), "Entrades" (Posts), "Medis" (Media), "Pàgines" (Pages), "Comentaris" (Comments), "Aparència" (Appearance), "Extensions" (Extensions), "Usuaris" (Users), "Llocs" (Locations), "Opcions" (Options), and "Perfils de xarxes" (Network profiles).

Execució correcta de Ansible

Tota la part de Ansible l'he executat localment a la meva màquina Ubuntu.

```
→ ansible-project ansible-playbook -i hosts wordpress.yml

PLAY [webserver] *****

TASK [Gathering Facts] *****
[WARNING]: Platform linux on host ec2-54-242-53-44.compute-1.amazonaws.com is using the discovered Python interpreter at
/usr/bin/python3.9, but future installation of another Python interpreter could change the meaning of that path. See
https://docs.ansible.com/ansible-core/2.16/reference_appendices/interpreter_discovery.html for more information.
ok: [ec2-54-242-53-44.compute-1.amazonaws.com]

TASK [Actualitzar repositoris] *****
ok: [ec2-54-242-53-44.compute-1.amazonaws.com]

TASK [Instal·lar Apache i PHP amb extensions] *****
ok: [ec2-54-242-53-44.compute-1.amazonaws.com]

TASK [Activar i arrancar Apache] *****
ok: [ec2-54-242-53-44.compute-1.amazonaws.com]

TASK [Descarregar WordPress] *****
ok: [ec2-54-242-53-44.compute-1.amazonaws.com]

TASK [Descomprimir WordPress] *****
changed: [ec2-54-242-53-44.compute-1.amazonaws.com]

TASK [Assignar permisos correctes] *****
changed: [ec2-54-242-53-44.compute-1.amazonaws.com]

TASK [Crear arxiu wp-config.php bàsic] *****
ok: [ec2-54-242-53-44.compute-1.amazonaws.com]

PLAY RECAP *****
ec2-54-242-53-44.compute-1.amazonaws.com : ok=8    changed=2    unreachable=0    failed=0    skipped=0    rescued=0    ignored=0
```

Script per tal d'automatitzar la instal·lació

```
#!/bin/bash

cd

# Instal·lació de dependències

sudo dnf install wget tar unzip -y

sudo dnf install httpd -y

sudo dnf install php8.1 -y

sudo dnf install php-curl php-zip php-gd php-soap php-intl php-mysqlnd php-pdo -y

sudo systemctl start httpd

sudo systemctl enable httpd

sudo dnf search mysql

sudo dnf install mariadb105 -y

# Instal·lació de wordpress

cd /tmp

wget https://wordpress.org/latest.tar.gz

tar -xvzf latest.tar.gz

sudo mv wordpress/* /var/www/html/

sudo rm -rf wordpress latest.tar.gz

sudo chown -R apache:apache /var/www/html/
```

Wordpress.yml millorat

wordpress.yml

```
hosts: webservers
become: yes
vars_files:
  - vars.yml

tasks:
  - name: Actualitzar repositoris
    dnf:
      name: "*"
      state: latest

  - name: Instal·lar Apache i PHP amb extensions
    dnf:
      name:
        - httpd
        - php
        - php-mysqlnd
        - php-gd
        - php-xml
        - php-json
        - php-intl
        - php-cli
      state: present

  - name: Activar i arrencar Apache
    systemd:
      name: httpd
      state: started
      enabled: yes

  - name: Descarregar WordPress
    get_url:
      url: https://wordpress.org/latest.tar.gz
      dest: /tmp/latest.tar.gz

  - name: Descomprimir WordPress
    unarchive:
      src: /tmp/latest.tar.gz
      dest: "{{ wordpress_path }}"
      remote_src: yes
      extra_opts: [--strip-components=1]

  - name: Assignar permisos correctes
    file:
      path: "{{ wordpress_path }}"
      owner: "{{ apache_user }}"
      group: "{{ apache_group }}"
      mode: '0755'
      recurse: yes

  - name: Crear arxiu wp-config.php bàsic
    copy:
      dest: "{{ wordpress_path }}/wp-config.php"
      content: |
        <?php
        define('DB_NAME', '{{ wordpress_db_name }}');
        define('DB_USER', '{{ wordpress_db_user }}');
        define('DB_PASSWORD', '{{ wordpress_db_password }}');
        define('DB_HOST', '{{ wordpress_db_host }}');
        define('DB_CHARSET', 'utf8');
        define('DB_COLLATE', '');
        $table_prefix = 'wp_';
        define('WP_DEBUG', false);
        if ( !defined('ABSPATH') )
          define('ABSPATH', __DIR__ . '/');
        require_once ABSPATH . 'wp-settings.php';
```

vars.yml

```
wordpress_db_name: wordpress
wordpress_db_user: wordpress
wordpress_db_password: wordpress
wordpress_db_host: <RDS_ENDPOINT>
wordpress_path: /var/www/html
apache_user: apache
apache_group: apache
```