Web App on EC2 with Apache 2

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https://github.com/pravinkr011/30-days-aws-projects/

Name and tags Info

Name

MyWebServer	**Add additional tags**

▼ Application and OS Images (Amazon Machine Image) Info

An AMI contains the operating system, application server, and applications for your instance. If you don't see a suitable AMI below, use the search field or choose **Browse more AMIs**.

🔍 *Search our full catalog including 1000s of application and OS images*

Recents   **Quick Start**

Amazon Linux	macOS	Ubuntu	Windows	Red Hat	SUSE Linux	Debian
aws	Mac	ubuntu®	▦ Microsoft	● Red Hat	SUSE	debian

🔍 **Browse more AMIs**
Including AMIs from AWS, Marketplace and the Community

```
root@ip-172-31-28-97:/home/ubuntu# history
    1  apt update -y
    2  sudo apt install apache2 -y
    3  sudo systemctl start apache2
    4  sudo systemctl enable apache2
    5  sudo systemctl status apache2
    6  history
root@ip-172-31-28-97:/home/ubuntu#
```

Command used to install apache2
Enable apache2

systemctl status apache2

```
No VM guests are running outdated hypervisor (qemu) binaries on this host.
root@ip-172-31-28-97:/home/ubuntu# sudo systemctl start apache2
root@ip-172-31-28-97:/home/ubuntu# sudo systemctl enable apache2
Synchronizing state of apache2.service with SysV service script with /usr/lib/systemd/systemd-sysv-install.
Executing: /usr/lib/systemd/systemd-sysv-install enable apache2
root@ip-172-31-28-97:/home/ubuntu# sudo systemctl status apache2
● apache2.service - The Apache HTTP Server
     Loaded: loaded (/usr/lib/systemd/system/apache2.service; enabled; preset: enabled)
     Active: active (running) since Fri 2025-09-26 03:37:47 UTC; 54s ago
       Docs: https://httpd.apache.org/docs/2.4/
   Main PID: 2472 (apache2)
      Tasks: 55 (limit: 1121)
     Memory: 5.2M (peak: 5.3M)
        CPU: 34ms
     CGroup: /system.slice/apache2.service
             ├─2472 /usr/sbin/apache2 -k start
             ├─2475 /usr/sbin/apache2 -k start
             └─2476 /usr/sbin/apache2 -k start

Sep 26 03:37:47 ip-172-31-28-97 systemd[1]: Starting apache2.service - The Apache HTTP Server...
Sep 26 03:37:47 ip-172-31-28-97 systemd[1]: Started apache2.service - The Apache HTTP Server.
root@ip-172-31-28-97:/home/ubuntu#
```

Configured the index.html in /var/www/html/index.html

```html
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8" />
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Day 2 - AWS Project Completion</title>
  <style>
    body {
      font-family: Arial, sans-serif;
      background: linear-gradient(to right, #0077b6, #00b4d8);
      color: white;
      text-align: center;
      padding: 50px;
    }
    h1 {
      font-size: 2.5rem;
      margin-bottom: 20px;
    }
    p {
      font-size: 1.2rem;
    }
    .box {
      margin: 30px auto;
      padding: 20px;
      max-width: 600px;
      background: rgba(255, 255, 255, 0.1);
      border-radius: 10px;
      box-shadow: 0px 0px 10px rgba(0,0,0,0.3);
    }
    contd…
```
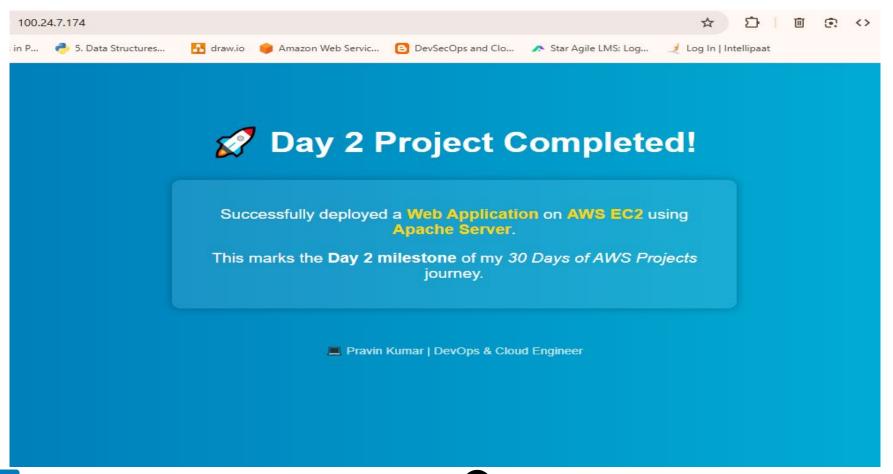
```html
contd…

    .highlight {
      font-weight: bold;
      color: #ffd60a;
    }
    footer {
      margin-top: 50px;
      font-size: 0.9rem;
      opacity: 0.8;
    }
  </style>
</head>
<body>
  <h1>🚀 Day 2 Project Completed!</h1>
  <div class="box">
    <p>Successfully deployed a <span class="highlight">Web Application</span> on <span class="highlight">AWS EC2</span> using <span class="highlight">Apache Server</span>.</p>
    <p>This marks the <strong>Day 2 milestone</strong> of my <em>30 Days of AWS Projects</em> journey.</p>
  </div>
  <footer>
    💻 Pravin Kumar | DevOps & Cloud Engineer
  </footer>
</body>
</html>
```

🚀 **Day 2 Project Completed!**

Successfully deployed a **Web Application** on **AWS EC2** using **Apache Server**.

This marks the **Day 2 milestone** of my *30 Days of AWS Projects* journey.

💻 Pravin Kumar | DevOps & Cloud Engineer

🌍 Real-World Relevance of Day 2 Project

1️⃣ Hosting Applications at Scale

- Companies need to host their **websites, APIs, and apps**.

- EC2 provides **scalable virtual servers** where we can deploy any software stack (e.g., Apache, Nginx, Node.js).

- Instead of buying physical servers, we can spin up EC2 in minutes.

2️⃣ Cost-Effective Development & Testing

- Developers can create **test environments** on EC2 quickly.

- Pay-as-you-go pricing means we don't waste money on idle resources.

3️⃣ Flexibility & Customization

- With EC2, we choose the **OS (Linux/Windows), instance type, networking, and storage**.

- We can install **Apache, MySQL, Docker, Kubernetes**, etc., based on project needs.