

Hosting a static web page in AWS EC2 Instance

1. What is EC2

Ec2 is a computing service. It is used to launch VMs which has OS, Instance type which is CPU+RAM, HDD

2. To run a web application, we need a web server. To convert a server into a web server, we install a web package on the server, which is httpd.

3. These are the following commands used to launch the web application after installing httpd.

sudo su

yum update -y

yum install httpd -y

cd /var/www/html

vim index.html

// write the code into the file

systemctl start httpd

systemctl enable httpd

systemctl status httpd

4. Hit the public IP address of the EC2 to view cute little toy store webpage.

5. If you hit private IP address you can't see anything.

Because you **cannot access an EC2 instance's private IP from the public internet.**

The **private IP only works inside the same VPC (or connected networks).**

54.84.226.125 (ec2-user)

Terminal Sessions View X server Tools Games Settings Macros Help

Session Servers Tools Games Sessions View Split MultiExec Tunneling Packages Settings Help

Quick connect...

Amazon Linux 2023 Kernel Livepatch repository
Dependencies resolved.
Nothing to do.
Complete!

```
[root@ip-172-31-18-88 ec2-user]# yum install httpd -y
Last metadata expiration check: 0:00:37 ago on Sun Dec 28 18:11:46 2025.
Dependencies resolved.
```

Package	Architecture	Version	Repository	Size
httpd	x86_64	2.4.65-1.amzn2023.0.2	amazonlinux	47 k
Installing:				
httpd	x86_64	2.4.65-1.amzn2023.0.4	amazonlinux	129 k
apr	x86_64	1.7.5-1.amzn2023.0.2	amazonlinux	97 k
apr-util	x86_64	1.6.3-1.amzn2023.0.2	amazonlinux	13 k
apr-util-lmdb	x86_64	18.0.0-12.amzn2023.0.3	amazonlinux	19 k
generic-logos-httpsd	noarch	2.4.65-1.amzn2023.0.2	amazonlinux	1.4 M
httpd-core	x86_64	2.4.65-1.amzn2023.0.2	amazonlinux	13 k
httpd-filesystem	noarch	2.4.65-1.amzn2023.0.2	amazonlinux	81 k
httpd-tools	x86_64	2.4.65-1.amzn2023.0.2	amazonlinux	315 k
libcurl	x86_64	1.0.9-4.amzn2023.0.2	amazonlinux	53 k
mailcap	noarch	2.1.49-3.amzn2023.0.3	amazonlinux	15 k
Installing weak dependencies:				
apr-util-openssl	x86_64	1.6.3-1.amzn2023.0.2	amazonlinux	166 k
mod_http2	x86_64	2.0.27-1.amzn2023.0.3	amazonlinux	60 k
mod_lua	x86_64	2.4.65-1.amzn2023.0.2	amazonlinux	
Transaction Summary				
Install 13 Packages				
Total download size: 2.4 M				
Installed size: 6.9 M				
Downloading packages:				
(1/13): apr-util-lmdb-1.6.3-1.amzn2023.0.2.x86_64.rpm			385 kB/s 13 kB 00:00	
(2/13): apr-util-1.6.3-1.amzn2023.0.2.x86_64.rpm			2.1 MB/s 97 kB 00:00	
(3/13): apr-1.7.5-1.amzn2023.0.4.x86_64.rpm			2.3 MB/s 129 kB 00:00	
(4/13): apr-util-openssl-1.6.3-1.amzn2023.0.2.x86_64.rpm			552 kB/s 15 kB 00:00	
(5/13): generic-logos-httpsd-18.0.0-12.amzn2023.0.3.noarch.rpm			827 kB/s 19 kB 00:00	
(6/13): httpd-filesystem-2.4.65-1.amzn2023.0.2.x86_64.rpm			2.3 MB/s 47 kB 00:00	
(7/13): httpd-tools-2.4.65-1.amzn2023.0.2.noarch.rpm			399 kB/s 13 kB 00:00	
(8/13): httpd-2.4.65-1.amzn2023.0.2.x86_64.rpm			3.3 MB/s 81 kB 00:00	
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Package	Architecture	Version	Repository	Size
httpd	x86_64	2.4.65-1.amzn2023.0.2	amazonlinux	47 k
Installing:				
httpd	x86_64	2.4.65-1.amzn2023.0.4	amazonlinux	129 k
apr	x86_64	1.7.5-1.amzn2023.0.2	amazonlinux	97 k
apr-util	x86_64	1.6.3-1.amzn2023.0.2	amazonlinux	13 k
apr-util-lmdb	x86_64	18.0.0-12.amzn2023.0.3	amazonlinux	19 k
generic-logos-httpsd	noarch	2.4.65-1.amzn2023.0.2	amazonlinux	1.4 M
httpd-core	x86_64	2.4.65-1.amzn2023.0.2	amazonlinux	13 k
httpd-filesystem	noarch	2.4.65-1.amzn2023.0.2	amazonlinux	81 k
httpd-tools	x86_64	2.4.65-1.amzn2023.0.2	amazonlinux	315 k
libcurl	x86_64	1.0.9-4.amzn2023.0.2	amazonlinux	53 k
mailcap	noarch	2.1.49-3.amzn2023.0.3	amazonlinux	15 k
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mod_http2	x86_64	2.0.27-1.amzn2023.0.3	amazonlinux	60 k
mod_lua	x86_64	2.4.65-1.amzn2023.0.2	amazonlinux	
Last login: Fri Dec 26 17:35:52 2025 from 171.76.86.100				
[ec2-user@ip-172-31-18-88 ~]\$ sudo su				
[root@ip-172-31-18-88 ec2-user]# yum update -y				
Amazon Linux 2023 Kernel Livepatch repository Dependencies resolved.				
Nothing to do.				
Complete!				
[root@ip-172-31-18-88 ec2-user]# yum install httpd -y				
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```

Terminal Sessions View X server Tools Games Settings Macros Help
Session Servers Tools Games Sessions View Split MultiExec Tunneling Packages Settings Help
Quick connect...
Preparing : apr-1.7.5-1.amzn2023.0.4.x86_64
Installing : apr-util-1.6.3-1.amzn2023.0.2.x86_64
Installing : apr-util-openssl-1.6.3-1.amzn2023.0.2.x86_64
Installing : apr-util-1.6.3-1.amzn2023.0.2.x86_64
Installing : mailcap-2.1.49-3.amzn2023.0.3.noarch
Installing : httpd-tools-2.4.65-1.amzn2023.0.2.x86_64
Installing : libhttpd-1.0.9-4.amzn2023.0.2.x86_64
Running scriptlet: httpd-filesystem-2.4.65-1.amzn2023.0.2.noarch
Installing : httpd-core-2.4.65-1.amzn2023.0.2.x86_64
Installing : mod_http2-2.0.27-1.amzn2023.0.3.x86_64
Installing : mod_lua-2.4.65-1.amzn2023.0.2.x86_64
Installing : generic-logos-httplib-18.0.0-12.amzn2023.0.3.noarch
Installing : httpd-2.4.65-1.amzn2023.0.2.x86_64
Running scriptlet: httpd-2.4.65-1.amzn2023.0.2.x86_64
Verifying : apr-1.7.5-1.amzn2023.0.4.x86_64
Verifying : apr-util-1.6.3-1.amzn2023.0.2.x86_64
Verifying : apr-util-openssl-1.6.3-1.amzn2023.0.2.x86_64
Verifying : generic-logos-httplib-18.0.0-12.amzn2023.0.3.noarch
Verifying : httpd-2.4.65-1.amzn2023.0.2.x86_64
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Verifying : httpd-filesystem-2.4.65-1.amzn2023.0.2.noarch
Verifying : httpd-tools-2.4.65-1.amzn2023.0.2.x86_64
Verifying : libhttpd-1.0.9-4.amzn2023.0.2.x86_64
Verifying : mailcap-2.1.49-3.amzn2023.0.3.noarch
Verifying : mod_http2-2.0.27-1.amzn2023.0.3.x86_64
Verifying : mod_lua-2.4.65-1.amzn2023.0.2.x86_64

Installed:
  apr-1.7.5-1.amzn2023.0.4.x86_64          apr-util-1.6.3-1.amzn2023.0.2.x86_64
  apr-util-openssl-1.6.3-1.amzn2023.0.2.x86_64   generic-logos-httplib-18.0.0-12.amzn2023.0.3.noarch
  httpd-core-2.4.65-1.amzn2023.0.2.x86_64      httpd-filesystem-2.4.65-1.amzn2023.0.2.noarch
  libhttpd-1.0.9-4.amzn2023.0.2.x86_64        mailcap-2.1.49-3.amzn2023.0.3.noarch
  mod_http2-2.0.27-1.amzn2023.0.3.x86_64       mod_httpd-2.4.65-1.amzn2023.0.2.x86_64
  mod_lua-2.4.65-1.amzn2023.0.2.x86_64        mod_http2-2.0.27-1.amzn2023.0.3.x86_64

apr-util-lmdb-1.6.3-1.amzn2023.0.2.x86_64
httpd-2.4.65-1.amzn2023.0.2.x86_64
httpd-tools-2.4.65-1.amzn2023.0.2.x86_64
mod_http2-2.0.27-1.amzn2023.0.3.x86_64

[root@ip-172-31-18-88 ec2-user]# cd /var/www/html
[root@ip-172-31-18-88 html]# pwd
/var/www/html
[root@ip-172-31-18-88 html]# vim [REDACTED]

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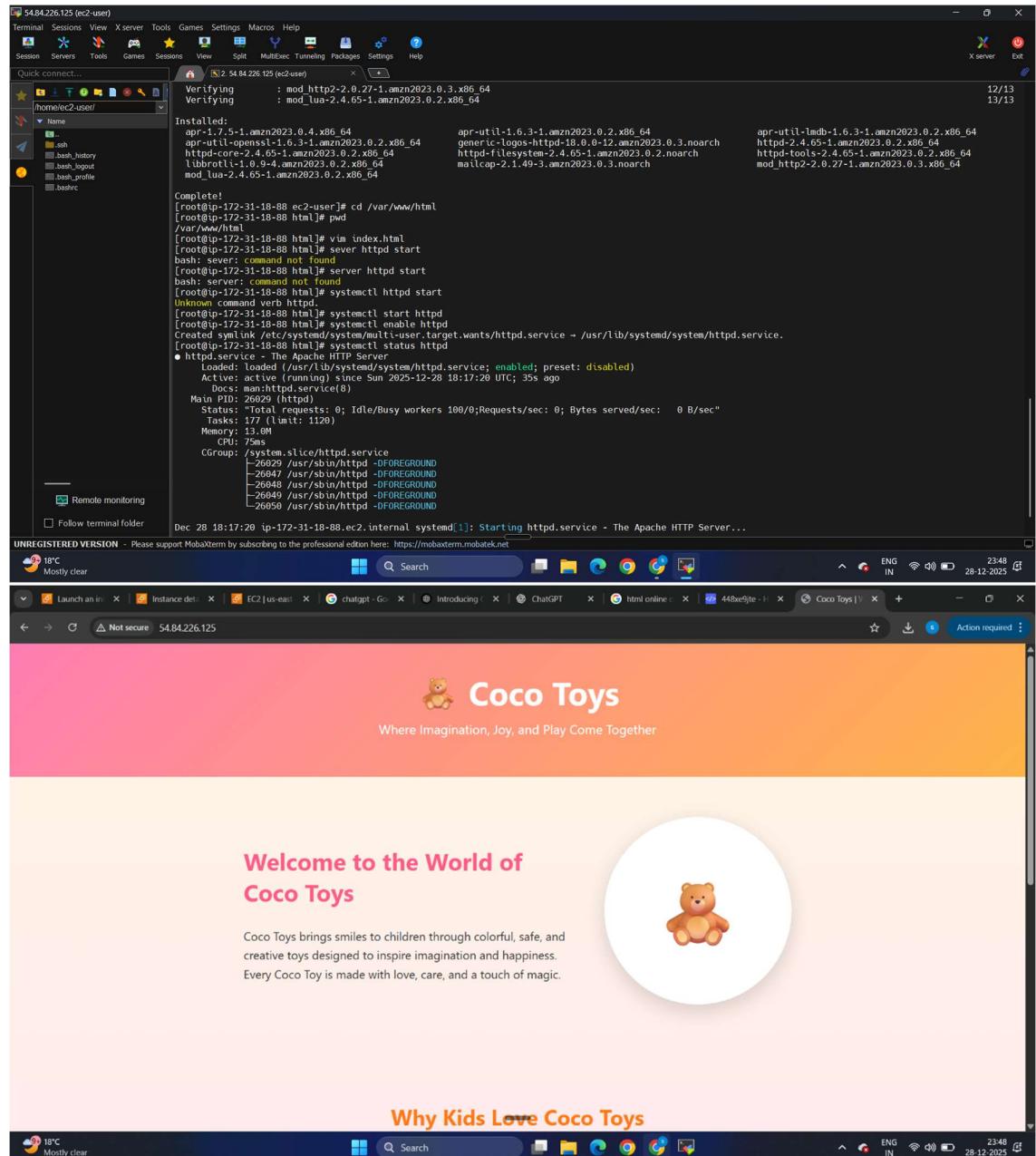
```

Terminal Sessions View X server Tools Games Settings Macros Help
Session Servers Tools Games Sessions View Split MultiExec Tunneling Packages Settings Help
Quick connect...
</section>
<section class="section">
  <h2>Why Kids Love Coco Toys</h2>
  <div class="features">
    <div class="feature">
      <span></span>
      <h3>Bright & Fun!</h3>
      <p>Colorful designs that instantly catch a child's attention.</p>
    </div>
    <div class="feature">
      <span></span>
      <h3>Safe Materials</h3>
      <p>Made from child-safe, high-quality, non-toxic materials.</p>
    </div>
    <div class="feature">
      <span></span>
      <h3>Learning Through Play</h3>
      <p>Encourages creativity, thinking, and imagination.</p>
    </div>
    <div class="feature">
      <span></span>
      <h3>Made with Love</h3>
      <p>Every toy is crafted to bring joy and comfort.</p>
    </div>
  </div>
</section>
<section class="cta">
  <h2>Let the Fun Begin!</h2>
  <p>Discover toys that turn everyday moments into magical memories.</p>
  <button>Explore Coco Toys</button>
</section>
<footer>
  © 2025 Coco Toys. All rights reserved.
</footer>
</body>
</html>
-- INSERT --

```

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The image shows two side-by-side screenshots of a web browser.

Left Screenshot (Coco Toys Website):

- The URL is <https://448xe9te-1.448xe9te.com/>.
- The page features a pink header with four white boxes containing icons and text:
 - Bright & Fun:** Colorful designs that instantly catch a child's attention.
 - Safe Materials:** Made from child-safe, high-quality, non-toxic materials.
 - Learning Through Play:** Encourages creativity, thinking, and imagination.
 - Made with Love:** Every toy is crafted to bring joy and comfort.
- A large teal section in the center contains the heading **Let the Fun Begin!** and the subtext **Discover toys that turn everyday moments into magical memories.**
- A button labeled **Explore Coco Toys** is visible.
- The footer includes the copyright notice **© 2025 Coco Toys. All rights reserved.** and navigation links.

Right Screenshot (AWS EC2 Security Groups Console):

- The URL is <https://us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#SecurityGroup:securityGroupId=sg-0d42ad389d3d0ee47>.
- The page shows the details for a security group named **sg-0d42ad389d3d0ee47 - launch-wizard-2**.
- Details:**

Security group name	sg-0d42ad389d3d0ee47	Description	VPC ID
Owner	195580718714	sg-0d42ad389d3d0ee47 created 2025-12-26T17:17:10.708Z	vpc-023ab1507eea1809
Inbound rules count	3 Permission entries	Outbound rules count	1 Permission entry
- Inbound rules (3):**

ID	IP version	Type	Protocol	Port range	Source	Description
88	IPv4	HTTP	TCP	80	0.0.0.0/0	-
77d	IPv4	HTTPS	TCP	443	0.0.0.0/0	-
73e	IPv4	SSH	TCP	22	0.0.0.0/0	-
- The footer includes links for CloudShell, Feedback, and Console Mobile App, along with standard browser navigation and status bars.

