

EC2 Linux Administration

Apache Web Server & Package Management

1. Switching to Root User

Command

```
sudo su
```

Explanation:

- Switches from `ec2-user` to `root`
 - Required for administrative operations
 - Common exam question
-

2. Change Directory

```
cd
```

Explanation: Moves the user to the home directory.

3. Amazon Linux: Apache Installation

Step 1: Update Repository

```
yum update
```

Updates all available packages from the repository.

Step 2: Install Apache (`httpd`)

```
yum install -y httpd
```

httpd is the Apache web server package in Amazon Linux.

Step 3: Enable Apache Service

```
systemctl enable httpd
```

Starts Apache automatically at system boot.

Step 4: Start Apache Service

```
systemctl start httpd
```

Starts Apache web server immediately.

4. Apache Web Root Directory

```
cd /var/www/html
```

This directory contains website files served by Apache.

5. Creating a Web Page

HTML Content

```
<body bgcolor=cyan>
<h1>Welcome to Apache</h1>
</body>
```

Opening EC2 public IP in browser will display this page.

6. Ubuntu Linux: Apache Installation

Ubuntu Commands

```
sudo su
cd
apt update
apt install -y apache2
systemctl enable apache2
systemctl start apache2
```

Key Difference:

- Amazon Linux uses yum
- Ubuntu uses apt
- Package name: apache2

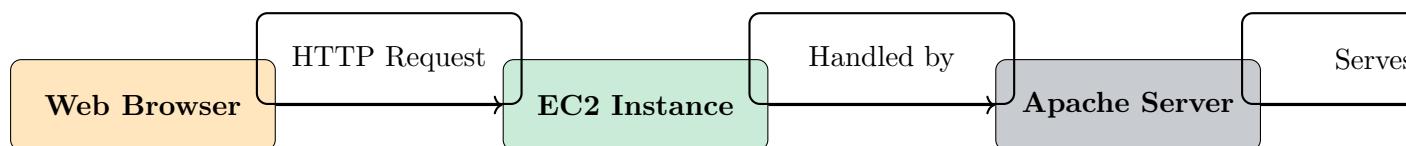
7. Installing GCC Compiler

Ubuntu

```
sudo apt update  
sudo apt install gcc
```

GCC is used to compile C/C++ programs.

8. Apache Web Server Workflow Diagram



9. One-Page Exam Cheat Sheet

Linux + Apache Commands

```
sudo su  
yum update  
yum install -y httpd  
systemctl enable httpd  
systemctl start httpd  
cd /var/www/html  
  
apt update  
apt install -y apache2  
systemctl enable apache2  
systemctl start apache2  
  
sudo apt install gcc
```

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