


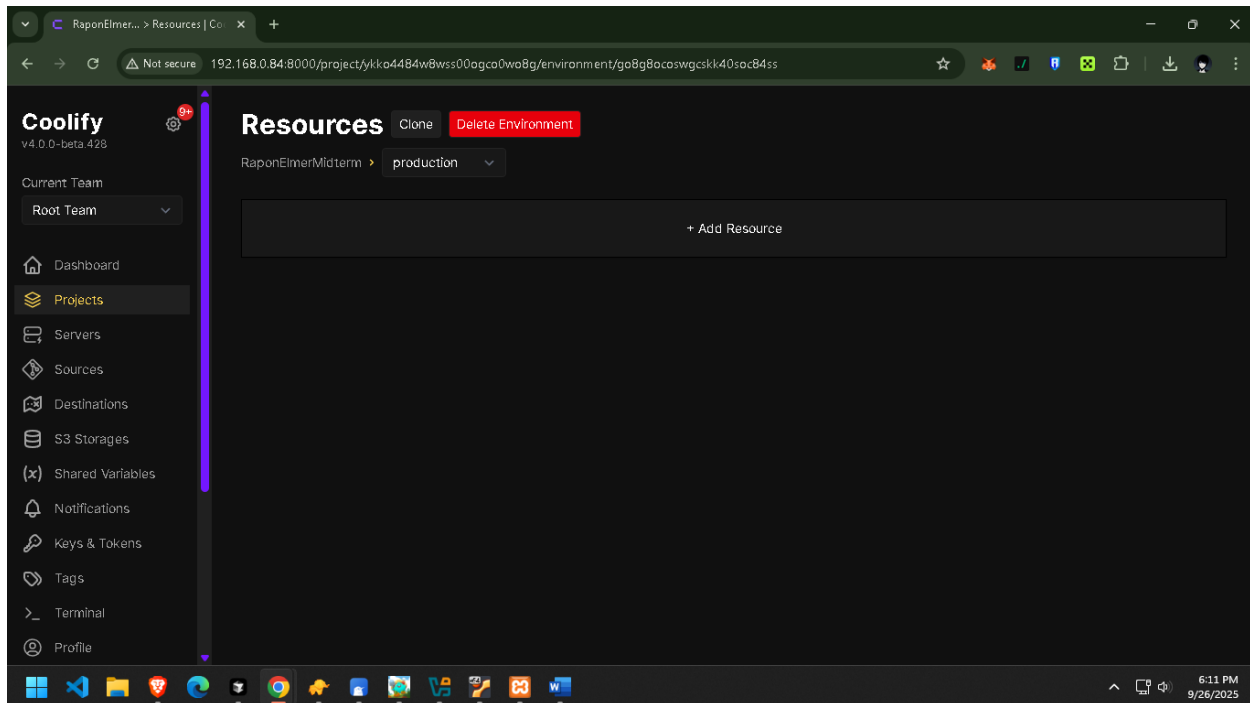
Midterm Task #2: Deploying Full-Stack Web Applications with Coolify (VirtualBox Latest Version)

By: Elmer S. Rapon

Step 1: Prepare your Full-Stack Web Application

 Imer15	v.2.1	c8d53d4 · 4 hours ago	🕒 3 Commits
Controller	v.2	4 hours ago	
Model	v.2	4 hours ago	
Public	v.2	4 hours ago	
View	v.2	4 hours ago	
.htaccess	v.2	4 hours ago	
README.md	v.2.1	4 hours ago	
bill_splitter.sql	v.2	4 hours ago	
config.php	v.2	4 hours ago	
index.html	v.1	5 months ago	

Step 2: Create a New Resource in Coolify for your Full-Stack App



Step 3: Connect your GitHub Repository to Coolify

The screenshot shows the 'Create a new Application' page in the Coolify web interface. The left sidebar contains navigation links: Dashboard, Projects (highlighted), Servers, Sources, Destinations, S3 Storages, Shared Variables, Notifications, Keys & Tokens, Tags, Terminal, and Profile. The main form area is titled 'Create a new Application' with the subtitle 'Deploy any public Git repositories.' Below this, there are several input fields and a 'Check repository' button. The 'Repository URL' field contains 'https://github.com/Wangska/elmer-full-stack'. A note suggests checking out 'Coolify Examples' for deployment examples. The 'Rate Limit' field is empty. The 'Branch' field is set to 'main'. The 'Build Pack' dropdown is set to 'Nixpacks'. The 'Base Directory' field is set to '/'. The 'Port' field is set to '3000'. There is a checkbox for 'Is it a static site?' which is currently unchecked. At the bottom of the form is a 'Continue' button. The browser's address bar shows the URL '192.168.0.84:8000/project/ykko4484w8wss00ogco0wo8g/environment/go8g8ocswgcskk40soc84ss/new?type=public...'. The system tray at the bottom right shows the time as 6:27 PM on 9/26/2025.

Coolify
v4.0.0-beta.428

Current Team
Root Team

Dashboard
Projects
Servers
Sources
Destinations
S3 Storages
Shared Variables
Notifications
Keys & Tokens
Tags
Terminal
Profile

Create a new Application

Deploy any public Git repositories.

Repository URL (https://)

https://github.com/Wangska/elmer-full-stack Check repository

For example application deployments, checkout [Coolify Examples](#).

Rate Limit

Branch

main

Build Pack *

Nixpacks

Base Directory

/

Port

3000

Is it a static site?

☐

Continue

Step 4: Configure Coolify for Full-Stack Deployment

The screenshot shows the 'Configuration' page in the Coolify web interface. The left sidebar is the same as in the previous screenshot. The main area is titled 'Configuration' with the subtitle 'RaponElmerMidterm > production > wangska/elmer-full-stack:main-pkckg8cwg8cgwokkggsc0kco > Exited'. Below the title are tabs for Configuration, Deployments, Logs, Terminal, and Links. The 'Configuration' tab is active. On the right, there are buttons for 'Advanced' and 'Deploy'. The 'General' tab is selected, showing fields for Name, Description, Build Pack, Is it a static site?, Domains, Direction, and Resource Limits. The 'Name' field contains 'wangska/elmer-full-stack:main-pkckg8cwg8cgwokkggsc0kco'. The 'Build Pack' dropdown is set to 'Nixpacks'. The 'Domains' field contains 'http://loc48ksk0okww4cc4wkccoco.222.127.50.128.sslip.io' with a 'Generate Domain' button. The 'Direction' dropdown is set to 'Allow www & non-www.' with a 'Set Direction' button. The 'Resource Limits' section is partially visible at the bottom. The browser's address bar shows the URL '192.168.0.84:8000/project/ykko4484w8wss00ogco0wo8g/environment/go8g8ocswgcskk40soc84ss/application/loc48...'. The system tray at the bottom right shows the time as 6:28 PM on 9/26/2025.

Coolify
v4.0.0-beta.428

Current Team
Root Team

Dashboard
Projects
Servers
Sources
Destinations
S3 Storages
Shared Variables
Notifications
Keys & Tokens
Tags
Terminal
Profile

Configuration

RaponElmerMidterm > production > wangska/elmer-full-stack:main-pkckg8cwg8cgwokkggsc0kco > Exited

Configuration Deployments Logs Terminal Links

Advanced Deploy

General

General configuration for your application.

Name *

wangska/elmer-full-stack:main-pkckg8cwg8cgwokkggsc0kco

Description

Build Pack *

Nixpacks

Is it a static site?

☐

Domains

http://loc48ksk0okww4cc4wkccoco.222.127.50.128.sslip.io Generate Domain

Direction *

Allow www & non-www. Set Direction

Docker Registry

Step 5: Set up Necessary Environment Variables

The screenshot shows the Coolify web interface for configuring environment variables. The browser address bar shows the URL: `192.168.0.84:8000/project/ykko4484w8wss00ogco0wo8g/environment/go8g8ocswgcskk40soc84ss/application/loc48...`. The interface includes a sidebar with navigation options like Dashboard, Projects, Servers, and a main content area with tabs for Configuration, Deployments, Logs, Terminal, and Links. The 'Environment Variables' tab is active, displaying a list of configuration options on the left and a text area for 'Production Environment Variables' on the right. The text area contains the following variables:

```
APP_ENV=production
DB_DATABASE=default
DB_HOST=e84w80884wccsgco8ow4s8w
DB_PASSWORD=Qx6TdL8z vT8VxvJTMPM5RZbE9a0bIYbJHTjdJL8RjfI6wv5XRPKR9JUC0ekNSDuq
DB_PORT=3306
DB_USERNAME=root
```

Below the text area is a section for 'Preview Deployments Environment Variables'. The system clock in the bottom right corner indicates 6:31 PM on 9/26/2025.

Step 6: Set up Domain and Deploy

The image displays two screenshots of the Coolify web interface, showing the configuration and deployment process.

Top Screenshot: Configuration Page

- Left Sidebar:** Coolify v4.0.0-beta.428. Current Team: Root Team. Navigation menu includes Dashboard, Projects (selected), Servers, Sources, Destinations, S3 Storages, Shared Variables, Notifications, Keys & Tokens, Tags, Terminal, and Profile.
- Configuration Tabs:** Configuration, Deployments, Logs.
- General Configuration:**
 - Name:** wangska/elmer-full-stack:main-pkckg8cwg8cgwolkkgc
 - Description:**
 - Build Pack:** Nixpacks
 - Is it a static site?:** ☐
 - Domains:** http://elmerfullstackmidterm.192.168.0.84.sslip.io (Generate Domain button)
 - Direction:** Allow www & non-www. (Set Direction button)
- Docker Registry:**
 - Docker Image:** Empty means it won't push the image to a docker regis...
 - Docker Image Tag:** Empty means only push commit sha tag.
- Build:**

Success Message: Application settings updated!

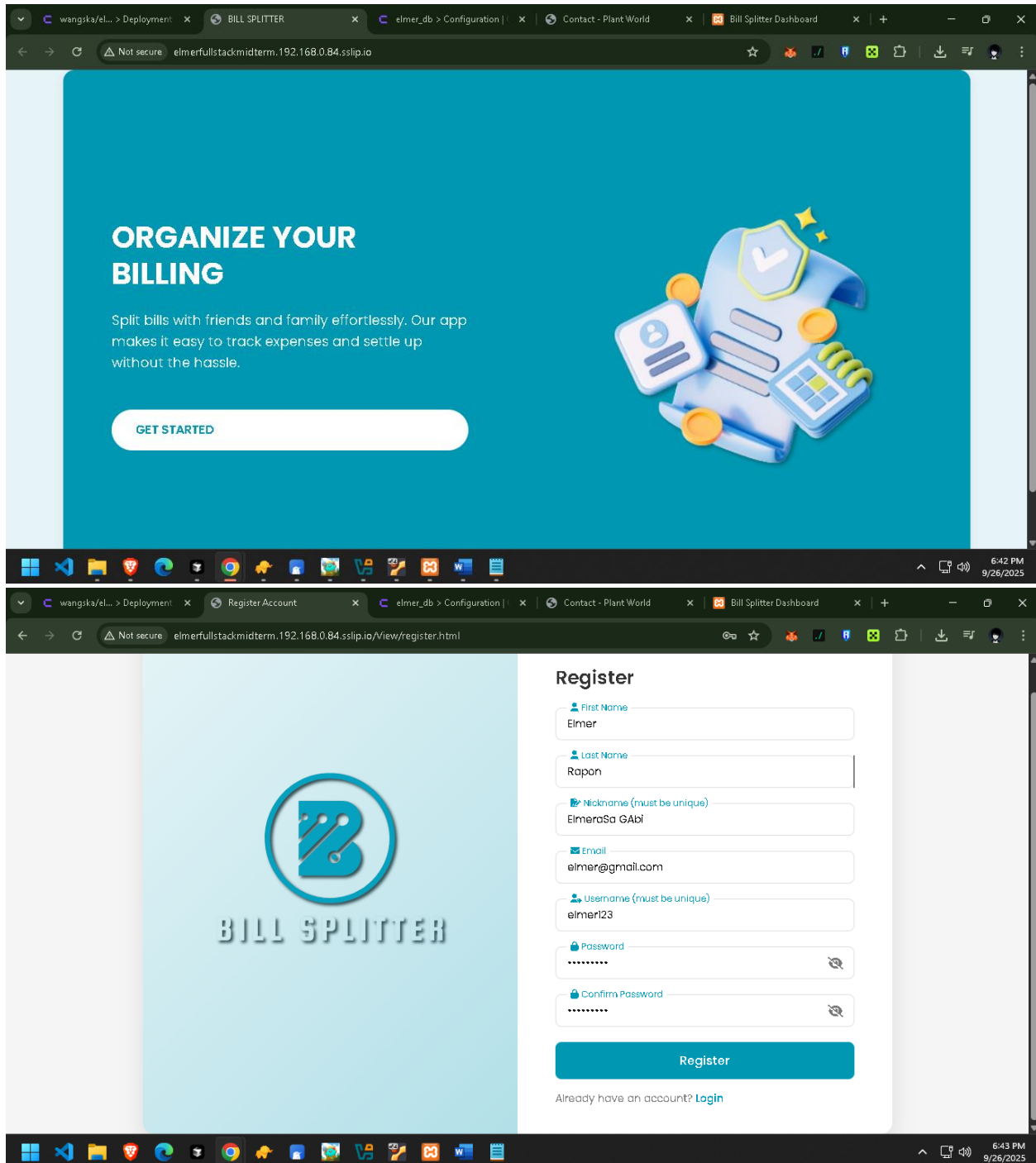
Bottom Bar: 6:29 PM 9/26/2025

Bottom Screenshot: Deployment Page

- Left Sidebar:** Same as the top screenshot.
- Deployment Page:**
 - Configuration Tabs:** Configuration, Deployments, Logs, Terminal, Links.
 - Deployment Log:** Show Debug Logs (button), Cancel (button). Deployment is In Progress. (status)
 - Deployment Log Entries:**
 - 2025-Sep-26 10:38:21.723870 Starting deployment of Wangska/elmer-full-stack:main to localhost.
 - 2025-Sep-26 10:38:22.862967 Preparing container with helper image: ghcr.io/coolabsio/coolify-helper:1.0.11.

Bottom Bar: 6:38 PM 9/26/2025

Step 7: Verify Deployment



The screenshot displays a web browser window with multiple tabs. The active tab is titled "BILL SPLITTER" and shows the landing page of the application. The page has a blue background with the text "ORGANIZE YOUR BILLING" and a subtext: "Split bills with friends and family effortlessly. Our app makes it easy to track expenses and settle up without the hassle." Below this text is a white button labeled "GET STARTED". To the right of the text is an illustration of a blue wallet with a green checkmark, a yellow coin, and a blue calculator.

The browser's address bar shows the URL "elmerfullstackmidterm.192.168.0.84.sslip.io". The Windows taskbar at the bottom shows the time as 6:42 PM on 9/26/2025.

The second part of the screenshot shows the "Register" page of the application. The page has a light blue background with the "BILL SPLITTER" logo on the left. On the right, there is a registration form with the following fields:

- First Name: Elmer
- Last Name: Rapon
- Nickname (must be unique): ElmeraSa GAbi
- Email: elmer@gmail.com
- Username (must be unique): elmer123
- Password: [masked]
- Confirm Password: [masked]

Below the form is a blue "Register" button. At the bottom of the form, there is a link: "Already have an account? [Login](#)".

The browser's address bar shows the URL "elmerfullstackmidterm.192.168.0.84.sslip.io/View/register.html". The Windows taskbar at the bottom shows the time as 6:43 PM on 9/26/2025.

