

# **This document follows the development of Eagle Deploy**

- **Initial Set Up and getting Tanner's base files running.**
- **Getting a YAML playbook running with main.go when initialized through CLI.**
- **Adding a friendlier user menu in CLI.**
- **Adding a test HTML for a local browser**

## **Current Status:**

- **Basic Playbook Execution:**
  - Supports parsing and running YAML-defined tasks on specified hosts.
- **CLI Interface:**
  - Offers an interactive menu for task selection and configuration, including logging and error handling.

## **Remaining Requirements:**

- **Concurrency:**
  - Needs improvements for executing tasks across multiple nodes simultaneously.
- **State Management:**
  - Requires mechanisms to track and manage the execution state of tasks.
- **Class-based Refactoring:**
  - Refactoring into a more modular, object-oriented structure would enhance maintainability.
- **Plugins and Modules:**
  - Integration of plugins and modules for customizable task execution and extended functionality.

# Installation and Running files from Tanner's initial setup.

```
EagleDeploy3 ~ # ls
eagle      hello-macos  hello.go     main.go
EagleDeploy3 ~ # CGO_ENABLED=0 GOOS=darwin GOARCH=amd64 go build -o eagle main.go

EagleDeploy3 ~ # ./eagle -e playbook.yaml

Tool name is: eagle
Executing YAML file: playbook.yaml
EagleDeploy3 ~ # ./eagle -l playbook

Tool name is: eagle
Listing YAML files related to: playbook
EagleDeploy3 ~ # ./eagle -h

Tool name is: eagle
Help Page:
Commands:
-e <yaml-file>: Execute the specified YAML file.
-l <keyword>: List YAML files or related names in the EagleDeployment directory.
-h: Display this help page.
EagleDeploy3 ~ #
```

```
proxmox ~ # cd testDeploy
testDeploy ~ # ls
README      go.mod      hello-macos  main.go
eagle       go.sum      hello.go     playbook.yaml
testDeploy ~ # go version

go version go1.23.2 darwin/amd64
testDeploy ~ # go build main.go

testDeploy ~ # ./main

Tool name is: main
Usage: eagle <command> [options]
testDeploy ~ # go run main.go

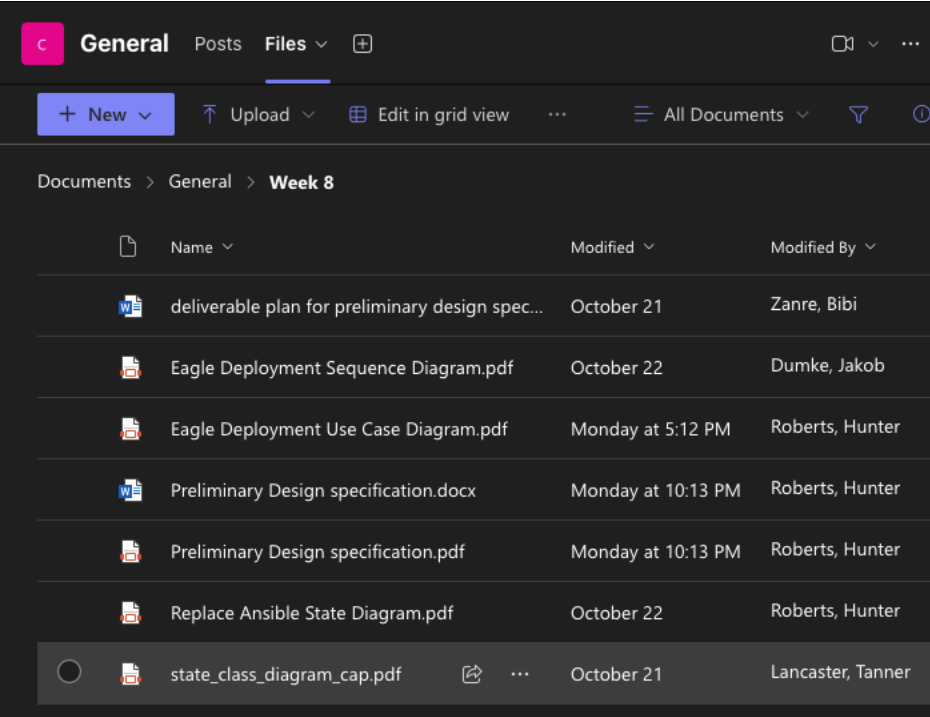
Tool name is: main
Usage: eagle <command> [options]
exit status 1
testDeploy ~ # go mod tidy

testDeploy ~ # ls -l

total 17896
-rw-r--r--  1 diegonarvaez  staff    3715 Nov  2 05:08 README
-rwxr-xr-x  1 diegonarvaez  staff 3332864 Nov  2 05:08 eagle
-rw-r--r--  1 diegonarvaez  staff     64 Nov  2 05:08 go.mod
-rw-r--r--  1 diegonarvaez  staff    360 Nov  2 05:08 go.sum
-rwxr-xr-x  1 diegonarvaez  staff 2245888 Nov  2 05:08 hello-macos
-rw-r--r--  1 diegonarvaez  staff     77 Nov  2 05:08 hello.go
-rwxr-xr-x  1 diegonarvaez  staff 3549584 Nov  2 05:09 main
-rw-r--r--  1 diegonarvaez  staff   4423 Nov  2 05:08 main.go
-rw-r--r--  1 diegonarvaez  staff    321 Nov  2 05:08 playbook.yaml
testDeploy ~ # file main

main: Mach-O 64-bit executable x86_64
testDeploy ~ # _
```

Created a basic outline based on the files from:



The screenshot shows a file management interface with a dark theme. At the top, there are tabs for 'General', 'Posts', and 'Files'. Below the tabs, there are buttons for '+ New', 'Upload', 'Edit in grid view', and 'All Documents'. The main area displays a list of documents under the heading 'Documents > General > Week 8'. The list has columns for 'Name', 'Modified', and 'Modified By'. The documents listed are:

Name	Modified	Modified By
deliverable plan for preliminary design spec...	October 21	Zanre, Bibi
Eagle Deployment Sequence Diagram.pdf	October 22	Dumke, Jakob
Eagle Deployment Use Case Diagram.pdf	Monday at 5:12 PM	Roberts, Hunter
Preliminary Design specification.docx	Monday at 10:13 PM	Roberts, Hunter
Preliminary Design specification.pdf	Monday at 10:13 PM	Roberts, Hunter
Replace Ansible State Diagram.pdf	October 22	Roberts, Hunter
state_class_diagram_cap.pdf	October 21	Lancaster, Tanner

The project runs with the initial set instructions but not functionality, (EagleDeploy\_CLI\_DO\_NOT\_CHANGE), this is the base line result.

```
EagleDeploy3 ~ # ./eagle -e playbook.yaml

Tool name is: eagle
Executing YAML file: playbook.yaml
Parsed YAML content: map[hosts:[192.168.1.10 192.168.1.11] name:Sample Playbook settings:map[retries:3 timeout:3
0] tasks:[map[command:apt-get update name:Update package list] map[command:apt-get install -y nginx name:Install
nginx] map[command:systemctl start nginx name:Start nginx service]] version:1]
EagleDeploy3 ~ # ./eagle -e playbook.yaml -hosts 192.168.1.10,192.168.1.11

Tool name is: eagle
Executing YAML file: playbook.yaml
Parsed YAML content: map[hosts:[192.168.1.10 192.168.1.11] name:Sample Playbook settings:map[retries:3 timeout:3
0] tasks:[map[command:apt-get update name:Update package list] map[command:apt-get install -y nginx name:Install
nginx] map[command:systemctl start nginx name:Start nginx service]] version:1]
EagleDeploy3 ~ # ./eagle -l playbook

Tool name is: eagle
Listing YAML files related to: playbook
Found YAML file: playbook.yaml
EagleDeploy3 ~ #
```

Implemented a menu interface in CLI (EagleDeploy\_CLI) still lacks functionality according to the requirements in diagrams.

```
EagleDeploy_CLI — main ◀ go run main.go — 112x61
EagleDeploy_CLI ~ # go run main.go

EagleDeploy Menu:
1. Execute a Playbook
2. List YAML Files
3. Manage Inventory
4. Enable/Disable Detailed Logging
5. Rollback Changes
6. Show Help
0. Exit
Select an option: 1
Enter the path to the YAML playbook file (or type 'back' to return to the menu): back

EagleDeploy Menu:
1. Execute a Playbook
2. List YAML Files
3. Manage Inventory
4. Enable/Disable Detailed Logging
5. Rollback Changes
6. Show Help
0. Exit
Select an option: 2
Enter keyword to filter YAML files (or type 'back' to return to the menu): back

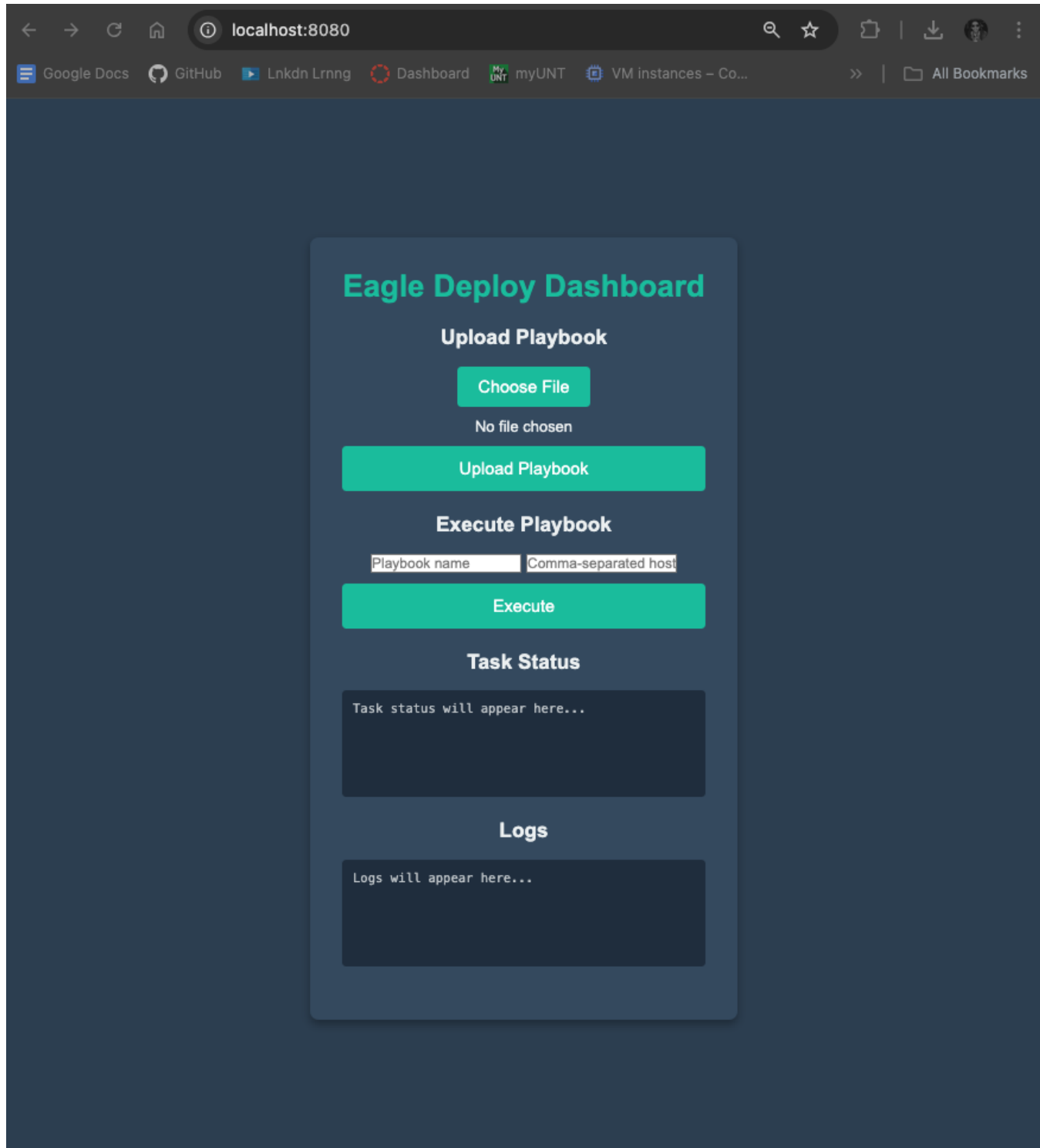
EagleDeploy Menu:
1. Execute a Playbook
2. List YAML Files
3. Manage Inventory
4. Enable/Disable Detailed Logging
5. Rollback Changes
6. Show Help
0. Exit
Select an option: 4
Enable detailed logging? (y/n, or type 'back' to return to the menu): back

EagleDeploy Menu:
1. Execute a Playbook
2. List YAML Files
3. Manage Inventory
4. Enable/Disable Detailed Logging
5. Rollback Changes
6. Show Help
0. Exit
Select an option: _
```

# With Local Interface

```
EagleDeploy3_interface ~ # go run main.go

Starting server on :8080...
```



# SUMMARY OF DEVELOPMENT MODELS

- ✓ EagleDeployDev
  - > EagleDeploy\_CLI
  - > EagleDeploy\_CLI\_DO\_NOT\_CHANGE
  - > EagleDeploy\_Initial\_Setup
  - > EagleDeploy\_test
  - > EagleDeploy3\_LocalBrowsrInterface

## Both Initial models of CLI or Web Browser

