

Linux Admin Learning Platform

An interactive web-based learning platform for Linux system administration topics.

Features

- Five comprehensive learning sections:
 - Shell Scripting
 - User & System Administration
 - Scheduling Jobs
 - Linux Security & Hardening
 - Performing Admin Tasks
- Interactive quizzes to test your knowledge
- Syntax highlighting for code examples
- Dark/light mode toggle
- Search functionality across all topics
- Responsive design for all devices
- **Progressive Web App (PWA) with offline functionality**

Setup Instructions

Local Development

1. Clone this repository
2. Ensure you have Node.js installed (for using npm packages)
3. Install dependencies:

```
npm install -g http-server
```

4. Start the server:

```
http-server -p 8080
```

5. Open your browser and navigate to <http://localhost:8080>

Using the App Offline

This learning platform is a Progressive Web App (PWA) that can be used completely offline:

1. **For desktop browsers (Chrome, Edge, etc.):**
 - Visit the site once while online

- Look for the install button in the address bar or the "Install this site as an app" option in the browser menu
- After installation, the app will be available from your desktop/start menu even without internet

2. For mobile devices:

- Visit the site in Chrome or Safari
- For Android: Tap the menu button and select "Add to Home Screen"
- For iOS: Tap the share button and select "Add to Home Screen"
- The app will now be available from your home screen, even offline

3. Automatic offline behavior:

- Content you've visited while online will be available offline automatically
- A notification will appear when you go offline or back online
- Your learning progress is saved locally and will sync when reconnected

4. Manual installation:

- A notification at the bottom of the screen will appear if the app can be installed
- Click the "Install App" button to add it to your device

Troubleshooting Content Loading Issues

If you encounter errors loading content:

1. Make sure the `content` directory exists in the project root
2. Verify all required HTML files exist in the content directory:
 - `shell-scripting.html`
 - `user-administration.html`
 - `scheduling-jobs.html`
 - `linux-security.html`
 - `admin-tasks.html`
3. Check file permissions to ensure files are readable
4. Check browser console for specific error messages

Project Structure

- `index.html` - Main application page
- `app.js` - Application logic
- `styles.css` - Styling
- `content/` - HTML content files for each section
- `service-worker.js` - Handles offline caching and content availability

Credits

Created by [Emmi C.](#)