

# Development Setup Instructions

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## Multi-Service Development Setup

To run all services properly, you need to start them in separate terminals with different ports:

### Terminal 1: Marketing App (Next.js)

```
cd apps/marketing
pnpm dev
```

- Runs on: <http://localhost:3000>
- This is the main marketing website

### Terminal 2: Threat Simulator WASM (Trunk)

```
cd apps/threat-simulator-desktop
pnpm dev
```

- Runs on: <http://localhost:8080>
- This serves the WASM files and assets
- The marketing app will fetch WASM files from this port

### Terminal 3: Utils (if needed)

```
cd packages/utils
pnpm dev
```

- Development mode for shared utilities

## Port Configuration

- **Marketing App:** Port 3000 (Next.js frontend)
- **WASM Server:** Port 8080 (Trunk dev server for WASM assets)
- **Utils:** Port varies (if running in dev mode)

## Important Notes

1. **Start WASM server first** - The marketing app depends on it for WASM assets
2. **Keep both terminals running** - Don't close either terminal while developing
3. **WASM files are served from port 8080** - The marketing app is configured to fetch from localhost:8080

4. **React hydration issues are fixed** - Added `suppressHydrationWarning` to prevent browser extension conflicts

## Troubleshooting

- If WASM fails to load: Make sure the threat-simulator-desktop service is running on port 8080
- If you see connection refused errors: Check that all services are running on their correct ports
- If you see compilation errors: Run `cargo check` in the threat-simulator-desktop directory

## Recent Fixes Applied

- ☒ Fixed React hydration mismatch (browser extension conflicts)
- ☒ Fixed Rust compilation errors (type mismatches)
- ☒ Configured different ports for each service
- ☒ Updated WASM asset URLs to point to correct port
- ☒ Fixed Trunk build directory issues