# PeiDocker Terminal GUI - Advanced Mode Design

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# 1 Advanced Mode Interface Overview

The Advanced Mode provides a comprehensive form-based interface that allows users to configure all aspects of their PeiDocker project. It features tabbed navigation, real-time YAML preview, template management, and direct editing capabilities.

# 1.1 Main Interface Layout

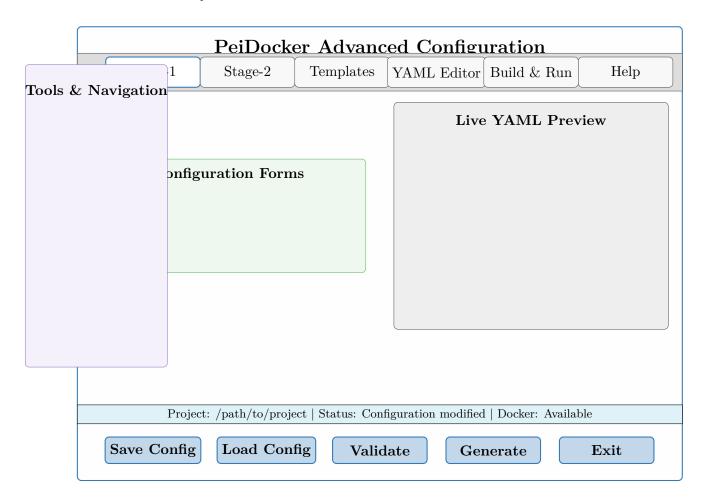


Figure 1: Advanced Mode Main Interface Layout

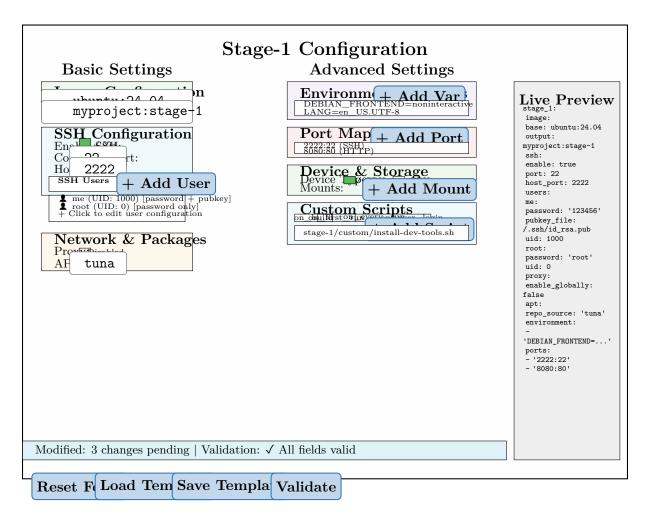


Figure 2: Stage-1 Configuration Tab Interface

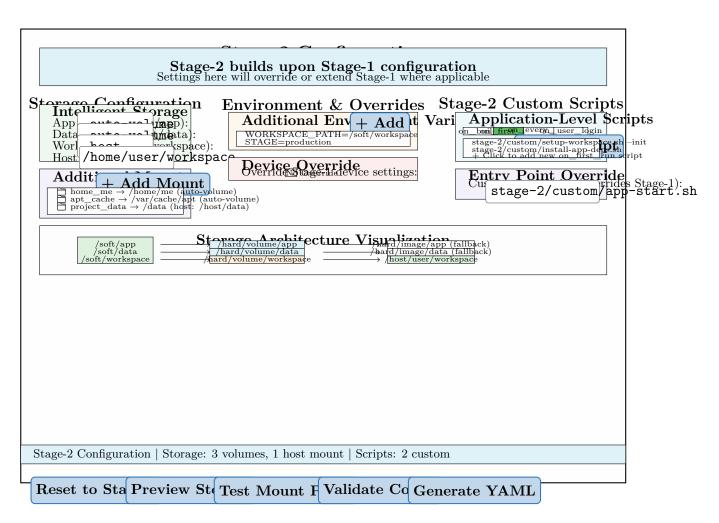


Figure 3: Stage-2 Configuration Tab Interface

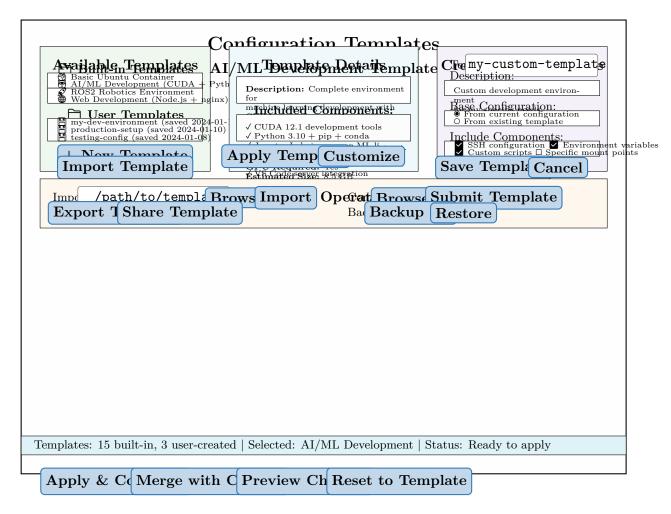


Figure 4: Templates Management Tab Interface

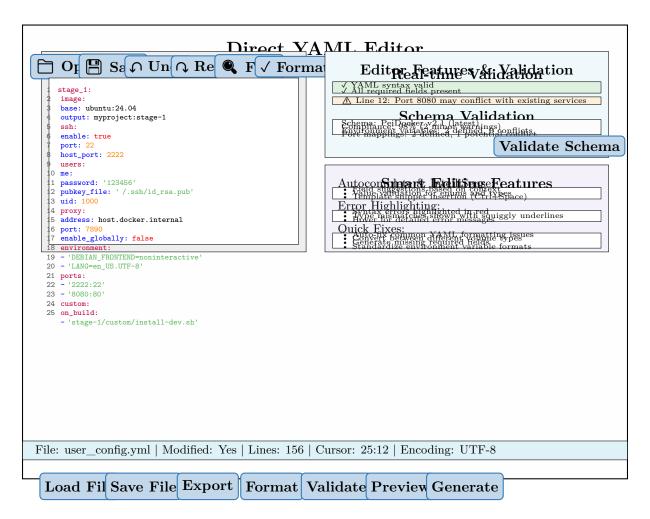


Figure 5: YAML Editor Tab Interface

- 1.2 Stage-1 Configuration Tab
- 1.3 Stage-2 Configuration Tab
- 1.4 Templates Management Tab
- 1.5 YAML Editor Tab
- 1.6 Build & Run Tab

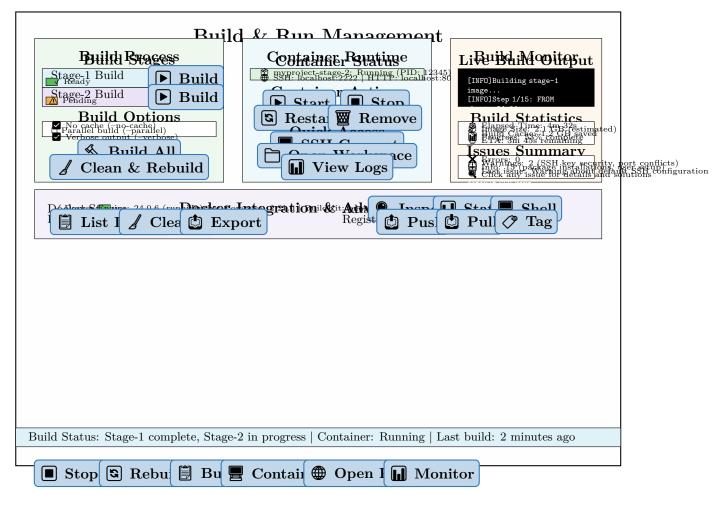


Figure 6: Build & Run Management Tab Interface

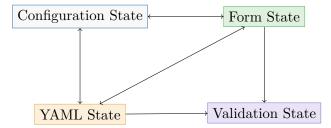
#### 2 Advanced Mode Interaction Patterns

#### 2.1 Form-Based Configuration Principles

The Advanced Mode follows several key design principles:

- Non-linear Navigation: Users can jump between any configuration section
- Real-time Validation: Immediate feedback on field values and relationships
- Live Preview: YAML configuration updates as users modify forms
- Template Integration: Built-in and user-defined templates for quick setup
- Direct YAML Editing: Power users can edit configuration directly
- Build Integration: Seamless transition from configuration to deployment

# 2.2 State Management



# 2.3 Error Handling and Recovery

The Advanced Mode provides comprehensive error handling:

- Field-level Validation: Real-time validation with inline error messages
- Cross-field Dependencies: Validation of relationships between configuration sections
- Schema Compliance: Ensure generated YAML matches PeiDocker schema
- Recovery Suggestions: Actionable suggestions for fixing configuration issues
- Auto-save: Prevent data loss with automatic configuration saving