

# Configuration Reference

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Complete reference for Solo Git configuration file

## File Location

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Default: `~/.sologit/config.yaml`

Override with environment variable:

```
export SOLOGIT_CONFIG=/path/to/config.yaml
```

## Complete Example

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```

# Abacus.ai API Configuration
abacus:
  endpoint: https://api.abacus.ai/v1
  api_key: sk-your-api-key-here
  timeout: 30
  retry_attempts: 3

# Model Selection Strategy
models:
  planning_model: gpt-4o
  coding_model: deepseek-coder-33b
  fast_model: llama-3.1-8b-instruct

# Model-specific settings
planning:
  max_tokens: 4096
  temperature: 0.2
coding:
  max_tokens: 2048
  temperature: 0.1
fast:
  max_tokens: 1024
  temperature: 0.1

# Budget Controls
budget:
  daily_usd_cap: 10.0
  alert_threshold: 0.8
  track_by_model: true
  alert_email: dev@example.com

# Workflow Settings
workflow:
  promote_on_green: true
  rollback_on_ci_red: true
  auto_delete_pads: true
  require_tests_before_promote: true

# Repository Defaults
repositories:
  default_branch: main
  workpad_ttl_days: 7
  storage_path: ~/.sologit/repos

# Test Configuration
tests:
  sandbox_image: ghcr.io/yourusername/evogit-sandbox:latest
  timeout_seconds: 300
  parallel_max: 4

# Jenkins Integration (Phase 3)
jenkins:
  url: http://jenkins:8080
  user: admin
  token: your-jenkins-token

# Logging
logging:
  level: INFO
  file: ~/.sologit/logs/sologit.log
  max_size_mb: 100
  backup_count: 5

```

## Configuration Sections

### abacus - API Configuration

Field	Type	Required	Default	Description
endpoint	string	Yes	-	Abacus.ai API endpoint URL
api_key	string	Yes	-	Your API key
timeout	integer	No	30	Request timeout in seconds
retry_attempts	integer	No	3	Number of retry attempts on failure

#### Example:

```
abacus:  
  endpoint: https://api.abacus.ai/v1  
  api_key: sk-abc123xyz  
  timeout: 60  
  retry_attempts: 5
```

### models - Model Selection

Field	Type	Required	Default	Description
planning_model	string	Yes	gpt-4o	Model for planning & architecture
coding_model	string	Yes	deepseek-coder-33b	Model for code generation
fast_model	string	Yes	llama-3.1-8b-instruct	Model for quick operations

#### Available Models:

##### Planning Models (complex reasoning):

- gpt-4o - OpenAI GPT-4 Optimized
- gpt-4-turbo - OpenAI GPT-4 Turbo
- claude-3-5-sonnet - Anthropic Claude 3.5 Sonnet
- llama-3.3-70b-instruct - Meta Llama 3.3 70B

**Coding Models** (specialized generation):

- `deepseek-coder-33b` - DeepSeek Coder 33B
- `codellama-70b-instruct` - Meta CodeLlama 70B
- `llama-3.1-70b-instruct` - Meta Llama 3.1 70B

**Fast Models** (quick operations):

- `llama-3.1-8b-instruct` - Meta Llama 3.1 8B
- `gemma-2-9b-it` - Google Gemma 2 9B
- `mistral-7b-instruct` - Mistral 7B

**Model Parameters:**

```
models:
  planning_model: gpt-4o
  planning:
    max_tokens: 4096
    temperature: 0.2

  coding_model: deepseek-coder-33b
  coding:
    max_tokens: 2048
    temperature: 0.1

  fast_model: llama-3.1-8b-instruct
  fast:
    max_tokens: 1024
    temperature: 0.1
```

**budget - Cost Controls**

Field	Type	Required	Default	Description
<code>daily_usd_cap</code>	float	Yes	10.0	Maximum daily spend in USD
<code>alert_threshold</code>	float	No	0.8	Alert when reaching X% of cap
<code>track_by_model</code>	boolean	No	true	Track costs per model
<code>alert_email</code>	string	No	-	Email for budget alerts

**Example:**

```

budget:
  daily_usd_cap: 25.0
  alert_threshold: 0.75
  track_by_model: true
  alert_email: dev@example.com

```

#### Budget Enforcement:

- System stops making API calls when cap is reached
- Resets daily at midnight UTC
- Alerts sent at threshold percentage

### workflow - Behavior Settings

Field	Type	Required	Default	Description
pro- mote_on_green	boolean	No	true	Auto-promote when tests pass
roll- back_on_ci_red	boolean	No	true	Auto-rollback if CI fails
auto_delete_pads	boolean	No	true	Delete pads after TTL
re- quire_tests_before_promote	boolean	No	true	Enforce test runs before promote

#### Example:

```

workflow:
  promote_on_green: true
  rollback_on_ci_red: true
  auto_delete_pads: true
  require_tests_before_promote: true

```

## repositories - Repository Settings

Field	Type	Required	Default	Description
default_branch	string	No	main	Name of trunk branch
workpad_ttl_days	integer	No	7	Days before auto-deleting pads
storage_path	string	No	~/.sologit/repos	Where to store repos

### Example:

```
repositories:
  default_branch: main
  workpad_ttl_days: 14
  storage_path: /data/sologit/repos
```

## tests - Test Configuration

Field	Type	Required	Default	Description
sandbox_image	string	No	-	Docker image for test sandbox
timeout_seconds	integer	No	300	Test timeout (5 minutes)
parallel_max	integer	No	4	Max parallel test containers

### Example:

```
tests:
  sandbox_image: ghcr.io/you/evogit-sandbox:latest
  timeout_seconds: 600
  parallel_max: 8
```

## jenkins - Jenkins Integration

Field	Type	Required	Default	Description
url	string	Yes	-	Jenkins server URL
user	string	Yes	-	Jenkins user-name
token	string	Yes	-	Jenkins API token

### Example:

```
jenkins:
  url: http://jenkins.example.com:8080
  user: sologit-bot
  token: 11a1b2c3d4e5f6g7h8i9j0
```

## logging - Logging Configuration

Field	Type	Required	Default	Description
level	string	No	INFO	Log level (DEBUG, INFO, WARNING, ERROR)
file	string	No	~/.sologit/logs/sologit.log	Log file path
max_size_mb	integer	No	100	Max log file size before rotation
backup_count	integer	No	5	Number of backup logs to keep

### Example:

```
logging:
  level: DEBUG
  file: /var/log/sologit/app.log
  max_size_mb: 50
  backup_count: 10
```



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## Validation

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### Required Fields

Minimum configuration for Solo Git to function:

```
abacus:
  endpoint: https://api.abacus.ai/v1
  api_key: your-key-here

models:
  planning_model: gpt-4o
  coding_model: deepseek-coder-33b
  fast_model: llama-3.1-8b-instruct

budget:
  daily_usd_cap: 10.0
```

### Validation Command

```
evogitctl config validate
```

#### Checks:

- All required fields present
- Valid YAML syntax
- API key format
- Model names valid
- Numeric values in range
- Path permissions

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## Environment Variable Overrides

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You can override config values with environment variables:

```
# API Configuration
export SOLOGIT_API_ENDPOINT=https://api.abacus.ai/v1
export SOLOGIT_API_KEY=sk-abc123

# Model Selection
export SOLOGIT_PLANNING_MODEL=gpt-4o
export SOLOGIT_CODING_MODEL=deepseek-coder-33b

# Budget
export SOLOGIT_DAILY_CAP=20.0

# Logging
export SOLOGIT_LOG_LEVEL=DEBUG
```

**Priority:** Environment variables > Config file > Defaults

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# Secrets Management

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## Storing API Keys Securely

### Option 1: Environment Variables

```
# In ~/.bashrc or ~/.zshrc
export SOLOGIT_API_KEY=$(cat ~/.secrets/abacus_key)
```

### Option 2: Encrypted Config

```
# Encrypt config file
gpg -c ~/.sologit/config.yaml

# Decrypt on use
gpg -d ~/.sologit/config.yaml.gpg | evogitctl --config-stdin
```

### Option 3: System Keyring (Future)

```
abacus:
  api_key: keyring://sologit/abacus
```

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## Examples

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### Minimal Configuration

```
abacus:
  endpoint: https://api.abacus.ai/v1
  api_key: sk-abc123

models:
  planning_model: gpt-4o
  coding_model: deepseek-coder-33b
  fast_model: llama-3.1-8b-instruct

budget:
  daily_usd_cap: 5.0
```

## Development Configuration

```
abacus:
  endpoint: https://api.abacus.ai/v1
  api_key: sk-dev-key

models:
  planning_model: llama-3.3-70b-instruct
  coding_model: codellama-70b-instruct
  fast_model: llama-3.1-8b-instruct

budget:
  daily_usd_cap: 50.0
  alert_threshold: 0.9

workflow:
  promote_on_green: false # Manual review in dev

logging:
  level: DEBUG
```

## Production Configuration

```
abacus:
  endpoint: https://api.abacus.ai/v1
  api_key: sk-prod-key
  timeout: 60
  retry_attempts: 5

models:
  planning_model: gpt-4o
  coding_model: deepseek-coder-33b
  fast_model: llama-3.1-8b-instruct

budget:
  daily_usd_cap: 100.0
  alert_threshold: 0.7
  alert_email: ops@example.com

workflow:
  promote_on_green: true
  rollback_on_ci_red: true
  require_tests_before_promote: true

jenkins:
  url: https://jenkins.prod.example.com
  user: sologit-prod
  token: ${JENKINS_TOKEN}

logging:
  level: INFO
  file: /var/log/sologit/prod.log
  max_size_mb: 200
  backup_count: 10
```