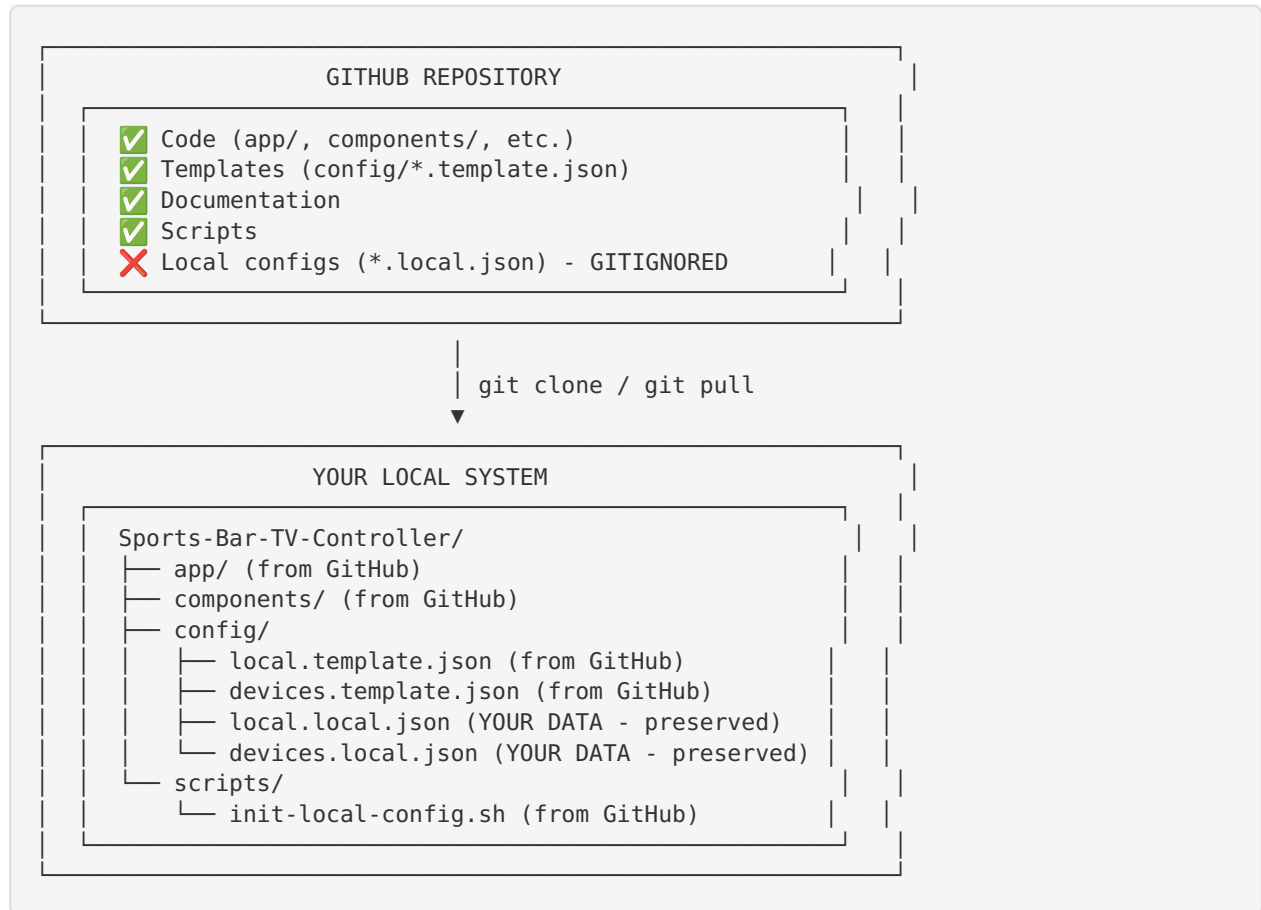


Local Configuration System - Visual Guide

How It Works



File Flow

Initial Setup

1. Clone Repository
 - ☐➤ Downloads: Code + Templates
 - ☐➤ Does NOT download: *.local.json (don't exist yet)
2. Run: `./scripts/init-local-config.sh`
 - ☐➤ Reads: *.template.json
 - ☐➤ Creates: *.local.json (YOUR copy)
3. Edit your local files
 - ☐➤ `nano config/local.local.json`
 - ☐➤ Configure Wolfpack IP, ports, etc.
 - ☐➤ Settings saved locally

During Git Pull



Example: Wolfpack Configuration

Template (in GitHub)

```

// config/local.template.json
{
  "wolfpack": {
    "ip": "192.168.1.100",
    "port": 4999,
    "protocol": "tcp",
    "enabled": true
  }
}

```

Your Local Config (NOT in GitHub)

```

// config/local.local.json
{
  "wolfpack": {
    "ip": "192.168.50.230",
    "port": 4999,
    "protocol": "tcp",
    "enabled": true
  }
}

```

What Happens During Git Pull

Before pull:
 config/local.local.json → { "ip": "192.168.50.230" } ← YOUR IP

GitHub has:
 config/local.template.json → { "ip": "192.168.1.100" } ← Example

After pull:
 config/local.template.json → { "ip": "192.168.1.100" } ← Updated from GitHub
 config/local.local.json → { "ip": "192.168.50.230" } ← UNCHANGED! (gitignored)

Multiple Locations

Bar 1 (Downtown)

```
// config/local.local.json
{
  "system": { "name": "Downtown Sports Bar" },
  "wolfpack": { "ip": "192.168.1.100" }
}
```

Bar 2 (Westside)

```
// config/local.local.json
{
  "system": { "name": "Westside Sports Bar" },
  "wolfpack": { "ip": "192.168.2.100" }
}
```

Both Use Same Codebase

```

GitHub (shared) ─┬─> Bar 1 (local config #1)
                  │
                  └─> Bar 2 (local config #2)
```

Testing the System

Step 1: Verify Local Files Exist

```
$ ls -la config/*.local.json
-rw-r--r-- 1 ubuntu ubuntu 1288 Oct  1 05:27 config/local.local.json
-rw-r--r-- 1 ubuntu ubuntu  255 Oct  1 05:27 config/devices.local.json
-rw-r--r-- 1 ubuntu ubuntu  164 Oct  1 05:27 config/sports-teams.local.json
```

Step 2: Verify NOT Tracked by Git

```
$ git status
On branch main
Your branch is up to date with 'origin/main'.

nothing to commit, working tree clean
```

✓ Good! Local files exist but Git doesn't see them.

Step 3: Make a Test Change

```
$ echo '// TEST CHANGE' >> config/local.local.json
$ cat config/local.local.json | tail -1
// TEST CHANGE
```

Step 4: Pull from GitHub

```
$ git pull origin main
Already up to date.
```

Step 5: Verify Change Still There

```
$ cat config/local.local.json | tail -1
// TEST CHANGE
```

✓ Success! Your local changes survived the git pull.

Directory Structure

```
Sports-Bar-TV-Controller/
├── config/
│   ├── README.md (guide)
│   ├── TEMPLATES (tracked in Git)
│   │   ├── local.template.json
│   │   ├── devices.template.json
│   │   └── sports-teams.template.json
│   ├── LOCAL (gitignored, YOUR data)
│   │   ├── local.local.json
│   │   ├── devices.local.json
│   │   └── sports-teams.local.json
│   └── SHARED (tracked in Git)
│       └── auto-sync.json
├── scripts/
│   └── init-local-config.sh (setup script)
└── LOCAL_CONFIG_SYSTEM.md (full guide)
```

Configuration Loading

Application Startup

- └> 1. Load config/local.template.json (defaults)
- └> 2. Load config/local.local.json (YOUR overrides)
 - └> Merges with defaults
 - └> Your values take priority
- └> 3. Load .env (secrets, API keys)
 - └> Overrides config files
- └> 4. Load database (runtime settings)
 - └> Overrides everything

Quick Reference

Commands

```
# Initialize local config (one time)
./scripts/init-local-config.sh

# Edit your settings
nano config/local.local.json

# Update from GitHub (safe!)
git pull origin main

# Verify local files
ls -la config/*.local.json

# Check git status (should be clean)
git status

# Backup your config
tar -czf ~/config-backup.tar.gz config/*.local.json .env
```

File Types

Extension	Tracked	Purpose	Edit?
.template.json	✓ Yes	Defaults	Rarely
.local.json	✗ No	Your data	Yes
.json	✓ Yes	Shared	Sometimes

Benefits

Before	After
⚠ Manual backup before update	✅ Automatic preservation
⚠ Risk of losing settings	✅ Settings always safe
⚠ Reconfigure after update	✅ No reconfiguration needed
⚠ Hard to manage multiple bars	✅ Easy multi-location support
⚠ No clear config structure	✅ Organized, documented system

Your configuration is now protected! 🛡

Update fearlessly with `git pull` - your settings are safe!