

@push.rocks/smarts hell

A library for executing shell commands using promises.

- [readme.md for @push.rocks/smarts](#)
- [changelog.md for @push.rocks/smarts](#)

readme.md for @push.rocks/smartshell

Execute shell commands with superpowers in Node.js

[npm version](#) License: MIT

⚠ Security Notice


IMPORTANT: Please read the [Security Guide](#) below for critical information about command execution and input handling. Always use `execSpawn` methods for untrusted input.

Why smartshell? ☐☐

Tired of wrestling with Node.js child processes? Meet `@push.rocks/smartshell` - your promise-based shell command companion that makes executing system commands feel like a breeze. Whether you're building automation scripts, CI/CD pipelines, or need fine-grained control over shell execution, smartshell has got you covered.

☐ Key Features

- ☐☐ **Promise-based API** - Async/await ready for modern codebases
- ☐☐ **Silent execution modes** - Control output verbosity
- ☐☐ **Streaming support** - Real-time output for long-running processes
- ☐☐ **Interactive commands** - Handle user input programmatically
- ☐☐ **Secure execution** - Shell-free methods for untrusted input
- ⚡ **Smart execution modes** - Strict, silent, or streaming
- ☐☐ **Pattern matching** - Wait for specific output patterns
- ☐☐ **Environment management** - Custom env vars and PATH handling
- ☐☐ **Memory protection** - Built-in buffer limits prevent OOM
- ☐☐ **Timeout support** - Automatic process termination
- ☐☐ **PTY support** - Full terminal emulation (optional)
- ☐☐ **Cross-platform** - Windows, macOS, and Linux ready

-  **TypeScript first** - Full type safety and IntelliSense

Installation

```
# Using npm
npm install @push.rocks/smartshell --save

# Using yarn
yarn add @push.rocks/smartshell

# Using pnpm (recommended)
pnpm add @push.rocks/smartshell

# Optional: For PTY support (terminal emulation)
pnpm add --save-optional node-pty
```

Quick Start

```
import { Smartshell } from '@push.rocks/smartshell';

// Create your shell instance
const shell = new Smartshell({
  executor: 'bash' // or 'sh' for lighter shells
});

// Run a simple command
const result = await shell.exec('echo "Hello, World!');
console.log(result.stdout); // "Hello, World!"
console.log(result.signal); // undefined (no signal)
console.log(result.stderr); // "" (no errors)
```

Security-First Execution

Secure Command Execution with execSpawn

When dealing with untrusted input, **always use execSpawn methods** which don't use shell interpretation:

```
// ❌ DANGEROUS with untrusted input
const userInput = "file.txt; rm -rf /";
await shell.exec(`cat ${userInput}`); // Command injection!

// ✅ SAFE with untrusted input
await shell.execSpawn('cat', [userInput]); // Arguments are properly escaped
```

execSpawn Family Methods

```
// Basic secure execution
const result = await shell.execSpawn('ls', ['-la', '/home']);

// Streaming secure execution
const streaming = await shell.execSpawnStreaming('npm', ['install']);
await streaming.finalPromise;

// Interactive secure execution
const interactive = await shell.execSpawnInteractiveControl('cat', []);
await interactive.sendLine('Hello');
interactive.endInput();
await interactive.finalPromise;
```

Production Features

Resource Management

Prevent memory issues with built-in buffer limits:

```
const result = await shell.exec('large-output-command', {
  maxBuffer: 10 * 1024 * 1024, // 10MB limit
  onData: (chunk) => {
    // Process chunks as they arrive
    console.log('Received:', chunk.toString());
  }
});
```

Timeout Support

Automatically terminate long-running processes:

```
try {
  const result = await shell.execSpawn('long-process', [], {
    timeout: 5000 // 5 second timeout
  });
} catch (error) {
  console.log('Process timed out');
}
```

Debug Mode

Enable detailed logging for troubleshooting:

```
const result = await shell.exec('command', {
  debug: true // Logs process lifecycle events
});
```

Custom Environment

Control the execution environment precisely:

```
const result = await shell.execSpawn('node', ['script.js'], {
  env: {
    NODE_ENV: 'production',
    PATH: '/usr/bin:/bin',
    CUSTOM_VAR: 'value'
  }
});
```

```
}  
});
```

Interactive Control

Programmatic Input Control

Send input to processes programmatically:

```
const interactive = await shell.execInteractiveControl('cat');  
  
// Send input line by line  
await interactive.sendLine('Line 1');  
await interactive.sendLine('Line 2');  
  
// Send raw input without newline  
await interactive.sendInput('partial');  
  
// Close stdin  
interactive.endInput();  
  
// Wait for completion  
const result = await interactive.finalPromise;
```

Passthrough Mode

Connect stdin for real keyboard interaction:

```
// User can type directly  
await shell.execPassthrough('vim file.txt');
```

PTY Support - Full Terminal Emulation

Smartshell provides two modes for executing interactive commands:

1. **Pipe Mode (Default)** - Fast, simple, no dependencies
2. **PTY Mode** - Full terminal emulation for advanced interactive programs

When to Use Each Mode

Use Pipe Mode (Default) When:

- Running simple commands that read from stdin
- Using tools like `cat`, `grep`, `sed`, `awk`
- Running basic scripts that don't need terminal features
- You want maximum performance and simplicity
- You don't want native dependencies

Use PTY Mode When:

- Running commands that require a real terminal:
 - Password prompts (`sudo`, `ssh`, `su`)
 - Interactive editors (`vim`, `nano`, `emacs`)
 - Terminal UIs (`htop`, `less`, `more`)
 - Programs with fancy prompts (`bash read -p`)
 - Tab completion and readline features
- You need terminal features:
 - ANSI colors and escape sequences
 - Terminal size control
 - Signal handling (Ctrl+C, Ctrl+Z)
 - Line discipline and special key handling

Installing PTY Support

PTY support requires the optional `node-pty` dependency:

```
# Install as optional dependency
pnpm add --save-optional node-pty

# Note: node-pty requires compilation and has platform-specific requirements
# - On Windows: Requires Visual Studio Build Tools
# - On macOS/Linux: Requires Python and build tools
```

PTY Usage Examples

```
// Use PTY for commands that need terminal features
const ptyInteractive = await shell.execInteractiveControlPty(
  "bash -c 'read -p \"Enter name: \" name && echo \"Hello, $name\""
);
await ptyInteractive.sendLine('John');
const result = await ptyInteractive.finalPromise;
// With PTY, the prompt "Enter name: " will be visible in stdout

// Streaming with PTY for real-time interaction
const ptyStreaming = await shell.execStreamingInteractiveControlPty('vim test.txt');
await ptyStreaming.sendInput('i'); // Enter insert mode
await ptyStreaming.sendInput('Hello from PTY!');
await ptyStreaming.sendInput('\x1b'); // ESC key
await ptyStreaming.sendInput(':wq\r'); // Save and quit
```

PTY vs Pipe Mode Comparison

Feature	Pipe Mode	PTY Mode
Dependencies	None	node-pty
Terminal Detection	<code>isatty()</code> returns false	<code>isatty()</code> returns true
Prompt Display	May not show	Always shows
Colors	Often disabled	Enabled
Signal Handling	Basic	Full (Ctrl+C, Ctrl+Z, etc.)
Line Ending	<code>\n</code>	<code>\r</code> (carriage return)
EOF Signal	Stream end	<code>\x04</code> (Ctrl+D)

Common PTY Patterns

```
// Password input (PTY required)
const sudo = await shell.execInteractiveControlPty('sudo ls /root');
await sudo.sendLine('mypassword');
const result = await sudo.finalPromise;

// Interactive REPL with colors
const node = await shell.execStreamingInteractiveControlPty('node');
await node.sendLine('console.log("PTY supports colors!")');
```

```
await node.sendLine('.exit');

// Handling terminal colors
const ls = await shell.execInteractiveControlPty('ls --color=always');
const result = await ls.finalPromise;
// result.stdout will contain ANSI color codes
```

PTY Fallback Strategy

Always provide a fallback for when PTY isn't available:

```
try {
  // Try PTY mode first
  const result = await shell.execInteractiveControlPty(command);
  // ...
} catch (error) {
  if (error.message.includes('node-pty')) {
    // Fallback to pipe mode
    console.warn('PTY not available, using pipe mode');
    const result = await shell.execInteractiveControl(command);
    // ...
  }
}
```

Advanced Pattern Matching

Enhanced execAndWaitForLine

Wait for patterns with timeout and auto-termination:

```
// Wait with timeout
await shell.execAndWaitForLine(
  'npm start',
  /Server listening on port/,
  false, // silent
  {
```

```
    timeout: 30000,          // 30 second timeout
    terminateOnMatch: true // Kill process after match
  }
);
```

Core Concepts

The Smartshell Instance

The heart of smartshell is the `Smartshell` class. Each instance maintains its own environment and configuration:

```
const shell = new Smartshell({
  executor: 'bash', // Choose your shell: 'bash' or 'sh'
  sourceFilePaths: ['/path/to/env.sh'], // Optional: source files on init
});
```

Execution Modes

Standard Execution

Perfect for general commands where you want to see the output:

```
const result = await shell.exec('ls -la');
console.log(result.stdout); // Directory listing
console.log(result.exitCode); // 0 for success
console.log(result.signal); // Signal if terminated
console.log(result.stderr); // Error output
```

Silent Execution

Run commands without printing to console - ideal for capturing output:

```
const result = await shell.execSilent('cat /etc/hostname');
// Output is NOT printed to console but IS captured in result
console.log(result.stdout); // Access the captured output here
```

Strict Execution

Throws an error if the command fails - great for critical operations:

```
try {
  await shell.execStrict('critical-command');
  console.log('☑ Command succeeded!');
} catch (error) {
  console.error('☐ Command failed:', error.message);
  // Error includes exit code or signal information
}
```

Streaming Execution

For long-running processes or when you need real-time output:

```
const streaming = await shell.execStreaming('npm install');

// Access the child process directly
streaming.childProcess.stdout.on('data', (chunk) => {
  console.log('☐☐ Installing:', chunk.toString());
});

// Control the process
await streaming.terminate(); // SIGTERM
await streaming.kill();      // SIGKILL
await streaming.keyboardInterrupt(); // SIGINT

// Wait for completion
await streaming.finalPromise;
```

Real-World Examples ☐☐

Build Pipeline

```
const shell = new Smartshell({ executor: 'bash' });

// Clean build directory
await shell.execSilent('rm -rf dist');

// Run TypeScript compiler
const buildResult = await shell.execStrict('tsc');

// Run tests
await shell.execStrict('npm test');

// Build succeeded!
console.log('✅ Build pipeline completed successfully');
```

CI/CD with Security

```
async function deployApp(branch: string, untrustedTag: string) {
  const shell = new Smartshell({ executor: 'bash' });

  // Use execSpawn for untrusted input
  await shell.execSpawnStrict('git', ['checkout', branch]);
  await shell.execSpawnStrict('git', ['tag', untrustedTag]);

  // Safe to use exec for hardcoded commands
  await shell.execStrict('npm run build');
  await shell.execStrict('npm run deploy');
}
```

Docker Compose Helper

```
const shell = new Smartshell({ executor: 'bash' });

// Start services and wait for readiness
console.log('🚀 Starting Docker services...');
```

```

await shell.execAndWaitForLine(
  'docker-compose up',
  /All services are ready/,
  false,
  {
    timeout: 60000,
    terminateOnMatch: false // Keep running after match
  }
);

// Run migrations
await shell.execStrict('docker-compose exec app npm run migrate');
console.log('👉 Environment ready!');

```

Development Server with Auto-Restart

```

import { SmartExecution } from '@push.rocks/smartshell';

const shell = new Smartshell({ executor: 'bash' });
const devServer = new SmartExecution(shell, 'npm run dev');

// Watch for file changes and restart
fs.watch('./src', async () => {
  console.log('👉 Changes detected, restarting...');
  await devServer.restart();
});

```

API Reference

Smartshell Class

Method	Description	Security
<code>exec(command)</code>	Execute with shell	⚠️ Vulnerable to injection
<code>execSpawn(cmd, args)</code>	Execute without shell	✅ Safe for untrusted input
<code>execSilent(command)</code>	Execute without console output	⚠️ Vulnerable to injection

Method	Description	Security
<code>execStrict(command)</code>	Execute, throw on failure	⚠ Vulnerable to injection
<code>execStreaming(command)</code>	Stream output in real-time	⚠ Vulnerable to injection
<code>execSpawnStreaming(cmd, args)</code>	Stream without shell	☐ Safe for untrusted input
<code>execInteractive(command)</code>	Interactive terminal mode	⚠ Vulnerable to injection
<code>execInteractiveControl(command)</code>	Programmatic input control	⚠ Vulnerable to injection
<code>execSpawnInteractiveControl(cmd, args)</code>	Programmatic control without shell	☐ Safe for untrusted input
<code>execPassthrough(command)</code>	Connect stdin passthrough	⚠ Vulnerable to injection
<code>execInteractiveControlPty(command)</code>	PTY with programmatic control	⚠ Vulnerable to injection
<code>execStreamingInteractiveControlPty(command)</code>	PTY streaming with control	⚠ Vulnerable to injection
<code>execAndWaitForLine(cmd, regex, silent, opts)</code>	Wait for pattern match	⚠ Vulnerable to injection

Result Interfaces

```
interface IExecResult {
  exitCode: number; // Process exit code
  stdout: string; // Standard output
  signal?: NodeJS.Signals; // Termination signal
  stderr?: string; // Error output
}

interface IExecResultStreaming {
  childProcess: ChildProcess; // Node.js ChildProcess instance
  finalPromise: Promise<IExecResult>; // Resolves when process exits
  sendInput: (input: string) => Promise<void>;
  sendLine: (line: string) => Promise<void>;
  endInput: () => void;
  kill: () => Promise<void>;
  terminate: () => Promise<void>;
  keyboardInterrupt: () => Promise<void>;
  customSignal: (signal: NodeJS.Signals) => Promise<void>;
}

interface IExecResultInteractive extends IExecResult {
  sendInput: (input: string) => Promise<void>;
}
```

```
sendLine: (line: string) => Promise<void>;
endInput: () => void;
finalPromise: Promise<IExecResult>;
}
```

Options Interface

```
interface IExecOptions {
  silent?: boolean;           // Suppress console output
  strict?: boolean;          // Throw on non-zero exit
  streaming?: boolean;       // Return streaming interface
  interactive?: boolean;     // Interactive mode
  passthrough?: boolean;    // Connect stdin
  interactiveControl?: boolean; // Programmatic input
  usePty?: boolean;         // Use pseudo-terminal
  ptyShell?: string;        // Custom PTY shell
  ptyCols?: number;         // PTY columns (default 120)
  ptyRows?: number;         // PTY rows (default 30)
  ptyTerm?: string;         // Terminal type (default 'xterm-256color')
  maxBuffer?: number;       // Max output buffer (bytes)
  onData?: (chunk: Buffer | string) => void; // Data callback
  timeout?: number;         // Execution timeout (ms)
  debug?: boolean;         // Enable debug logging
  env?: NodeJS.ProcessEnv; // Custom environment
  signal?: AbortSignal;    // Abort signal
}
```

Security Guide

Command Injection Prevention

The standard `exec` methods use `shell: true`, which can lead to command injection vulnerabilities:

```
// ⚠ DANGEROUS - Never do this with untrusted input
const userInput = "file.txt; rm -rf /";
await smartshell.exec(`cat ${userInput}`); // Will execute rm -rf /
```

```
// ☑ SAFE - Arguments are properly escaped
await smartshell.execSpawn('cat', [userInput]); // Will look for literal filename
```

Best Practices

1. **Always validate input:** Even with secure methods, validate user input
2. **Use execSpawn for untrusted data:** Never pass user input to shell-based methods
3. **Set resource limits:** Use `maxBuffer` and `timeout` for untrusted commands
4. **Control environment:** Don't inherit all env vars for sensitive operations
5. **Restrict signals:** Only allow specific signals from user input

Path Traversal Protection

```
// ☐ VULNERABLE
const file = userInput; // Could be "../../../../../etc/passwd"
await shell.exec(`cat ${file}`);

// ☑ SECURE
const path = require('path');
const safePath = path.join('/allowed/directory', path.basename(userInput));
await shell.execSpawn('cat', [safePath]);
```

Tips & Best Practices ☐☐

1. **Security first:** Use `execSpawn` for any untrusted input
2. **Set resource limits:** Always use `maxBuffer` and `timeout` for untrusted commands
3. **Choose the right executor:** Use `bash` for full features, `sh` for minimal overhead
4. **Use strict mode for critical operations:** Ensures failures don't go unnoticed
5. **Stream long-running processes:** Better UX and memory efficiency
6. **Leverage silent modes:** When you only need to capture output
7. **Handle errors gracefully:** Check both `exitCode` and `signal`
8. **Clean up resources:** Streaming processes should be properly terminated
9. **Control environment:** Don't inherit all env vars for sensitive operations
10. **Enable debug mode:** For development and troubleshooting
11. **Use PTY for terminal UIs:** When programs need real terminal features
12. **Provide fallbacks:** Always handle PTY unavailability gracefully

Environment Customization

Smartshell provides powerful environment management:

```
// Add custom source files
shell.shellEnv.addSourceFiles([
  '/home/user/.custom_env',
  './project.env.sh'
]);

// Modify PATH
shell.shellEnv.pathDirArray.push('/custom/bin');
shell.shellEnv.pathDirArray.push('/usr/local/special');

// Your custom environment is ready
const result = await shell.exec('my-custom-command');
```

Shell Detection

Need to check if a command exists? We export the `which` utility:

```
import { which } from '@push.rocks/smartshell';

try {
  const gitPath = await which('git');
  console.log(`Git found at: ${gitPath}`);
} catch (error) {
  console.log('Git is not installed');
}
```

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changelog.md for @push.rocks/smartshell

2026-03-15 - 3.3.8 - fix(repo)

remove obsolete Serena project configuration files

- Deletes the .serena project configuration from the repository
- Cleans up editor or tooling metadata that is not part of the package runtime or source code

2026-03-05 - 3.3.7 - fix(smartshell)

avoid triple shell nesting, improve WSL path filtering, and use chunked log buffer to reduce memory usage

- Spawn uses the executor shell binary directly (e.g. /bin/bash) and removes extra bash -c wrapping to avoid triple shell nesting
- Only filter out /mnt/c/ and other WSL-specific PATH entries when running under WSL (adds `_isWSL` detection)
- Replace single concatenated Buffer with chunked buffering in ShellLog (lazy concatenation, `logLength` property) and update checks to use `logLength`
- Remove unused dependency "tree-kill" from package.json

2026-03-04 - 3.3.6 - fix(smartshell)

use 'close' event on child processes to ensure exit handling and update dependency versions

- Replace `child_process` 'exit' listeners with 'close' in `ts/classes/smartshell.ts` (two occurrences) to ensure handlers run after stdio streams are closed.
- Bump devDependencies: `@git.zone/tsbuild` ^2.7.3 -> ^4.1.2, `@git.zone/tsrun` ^1.6.2 -> ^2.0.1, `@git.zone/tstest` ^2.8.3 -> ^3.2.0, `@types/node` ^22.19.13 -> ^25.3.3.
- Bump dependencies: `@push.rocks/smartexit` ^2.0.1 -> ^2.0.3, `which` ^5.0.0 -> ^6.0.1.

2026-03-03 - 3.3.2 - fix(release)

add @git.zone/cli release configuration with registries and public access

- Updated file: npmextra.json
- Added @git.zone/cli.release.registries: <https://verdaccio.lossleess.digital>, <https://registry.npmjs.org>
- Set @git.zone/cli.release.accessLevel to "public"

2026-03-03 - 3.3.1 - fix(deps)

bump @push.rocks/smartexit dependency to ^1.1.1

- Updated @push.rocks/smartexit from ^1.0.23 to ^1.1.1
- Only package.json was modified
- Project current version is 3.3.0; recommend a patch release to 3.3.1

2025-08-17 - 3.3.0 - feat(smartshell)

Add secure spawn APIs, PTY support, interactive/streaming control, timeouts and buffer limits; update README and tests

- Introduce execSpawn family (execSpawn, execSpawnStreaming, execSpawnInteractiveControl) for shell-free, secure execution of untrusted input (shell:false).
- Add PTY support (optional node-pty) with execInteractiveControlPty and execStreamingInteractiveControlPty; PTY is lazy-loaded and documented as an optional dependency.
- Expose interactive control primitives (sendInput, sendLine, endInput, finalPromise) for both spawn and shell-based executions, and streaming interfaces with process control (terminate, kill, keyboardInterrupt, customSignal).
- Implement timeouts, maxBuffer limits and onData callbacks to prevent OOM, stream output incrementally, and support early termination and debugging logs.
- Improve process lifecycle handling: safe unpipe/unpipe-on-error, smartexit integration, and safer signal-based tree-kill behavior.

- Enhance `execAndWaitForLine` with `timeout` and `terminateOnMatch` options to allow pattern-based waits with configurable behavior.
- Update README with a Security Guide recommending `execSpawn` for untrusted input, PTY usage guidance, and new feature documentation (timeouts, buffer limits, debug mode, environment control).
- Add extensive tests covering error handling, interactive control, passthrough, PTY behavior, spawn behavior, silent/streaming modes and environment propagation.

2025-08-16 - 3.2.4 - fix(tests)

Update tests & CI config, bump deps, add docs and project configs

- Add comprehensive README overhaul with detailed usage, examples, API reference and best practices.
- Add extensive silent-mode tests (`test/test.silent.ts`) to validate `execSilent`, `execStrictSilent`, `execStreamingSilent` and `execAndWaitForLineSilent` behaviors.
- Update test runner and script: test script now runs `tstest` with `--verbose`, `--logfile` and `--timeout`; tests now import `tapbundle` from `@git.zone/tstest`.
- Fix import in `test/test.ts` to use `@git.zone/tstest/tapbundle`.
- Bump devDependencies: `@git.zone/tsbuild` -> `^2.6.4`, `@git.zone/tstest` -> `^2.3.2`; bump `@push.rocks/smartpromise` -> `^4.2.3`.
- Add `typings` entry and `packageManager` field to `package.json`.
- Add project configuration files (`.serena/project.yml`) and local settings (`.claude/settings.local.json`).

2025-02-20 - 3.2.3 - fix(core)

Refactor `Smartshell` class for improved code clarity and performance

- Refactored `_exec` method to improve code clarity.
- Introduced `IExecOptions` interface for better type handling.
- Replaced `promise defer` with native promises in command execution methods.
- Improved logging and error handling in child process execution.
- Ensured robust process management with signals handling.

2024-12-13 - 3.2.2 - fix(core)

Fix minor code style and formatting issues

2024-12-13 - 3.2.1 - fix(dependencies)

Update @types/node dependency version

- Updated @types/node dependency from version ^22.10.1 to ^22.10.2.

2024-12-09 - 3.2.0 - feat(SmartExecution)

Add support for scheduling restarts to SmartExecution

- Introduced the ability to handle consecutive restarts efficiently in SmartExecution.
- Ensures that multiple restart requests merge into a single additional restart request if one is already in progress.

2024-12-09 - 3.1.0 - feat(core)

Refactor codebase and update dependencies.

- Refactored core classes with improved structure and modularization.
- Updated tsbuild, tsrun, tapbundle, and @types/node dependencies to newer versions.
- Improved build script in package.json to use tsbuild with tsfolders.

2024-09-17 - 3.0.6 - fix(core)

Fix interactive shell execution and update dependencies

- Corrected the interactive shell execution logic by separating it into a dedicated method.
- Updated development dependencies for @git.zone/tsbuild, @git.zone/tsrun, @git.zone/tstest, @push.rocks/tapbundle, and @types/node.
- Updated runtime dependencies for @push.rocks/smartpromise, and @types/which.
- Removed legacy .gitlab-ci.yml file.

2024-05-29 - 3.0.5 - Documentation

update description

2024-04-18 - 3.0.4 to 3.0.5 - Maintenance

Bug fixes and configuration updates

- fix(core): update
- update tsconfig
- update npmextra.json: githost

2024-03-16 - 3.0.3 to 3.0.4 - Maintenance

Bug fixes

- fix(core): update

2023-06-22 - 2.0.30 to 3.0.3 - Major Update

Major changes including breaking changes, bug fixes, and improvements.

- BREAKING CHANGE(core): switched to ES syntax and added support for interactivity
- fix(core): update

2021-11-07 - 2.0.27 to 2.0.30 - Maintenance

Bug fixes

- fix(core): cosmetics
- fix(core): update

2021-08-17 - 2.0.26 to 2.0.27 - Maintenance

Bug fixes

- fix(core): update

2020-05-22 - 2.0.25 to 2.0.26 - Maintenance

Bug fixes

- fix(core): update

2019-08-27 - 2.0.22 to 2.0.25 - Maintenance

Bug fixes

- fix(core): update

2019-05-28 - 2.0.16 to 2.0.22 - Maintenance

Bug fixes

- fix(core): update