

Coverity Connect MCP Server

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A **Model Context Protocol (MCP) server** that provides seamless integration between AI assistants (like Claude Desktop) and **Synopsys Coverity Connect** static analysis platform.

Transform your Coverity workflow with natural language commands and automated analysis through AI-powered interactions.

Features

Comprehensive Coverity Integration

- **Project Management:** List and explore Coverity projects and streams
- **Snapshot Analysis:** Detailed defect analysis with automated reporting
- **Security Focus:** Specialized security vulnerability detection and analysis
- **CI/CD Automation:** Automated pipeline integration for continuous quality monitoring

- **Quality Reports:** Executive-level quality dashboards and trend analysis

AI-Powered Analysis

- **Natural Language Queries:** "Show me critical security issues in project X"
- **Intelligent Filtering:** Automatic prioritization of high-impact defects
- **Contextual Recommendations:** AI-driven remediation suggestions
- **Trend Analysis:** Historical data analysis and quality metrics

Enterprise Ready

- **SOAP API Integration:** Full Coverity Connect Web Services support
- **Authentication:** Secure auth-key based authentication
- **Proxy Support:** Corporate network and proxy configuration
- **Multi-Platform:** Windows, macOS, and Linux support
- **Docker Ready:** Containerized deployment for enterprise environments

Installation

Using pip (Recommended)

```
bash
pip install coverity-connect-mcp
```

Using Docker

```
bash
docker pull ${DOCKER_USERNAME}/coverity-connect-mcp:latest
```

From Source

```
bash
git clone https://github.com/${GITHUB_USERNAME}/coverity-connect-mcp.git
cd coverity-connect-mcp
pip install -e .
```

Configuration

1. Environment Variables

```
bash
```

Required

```
export COVAUTHUSER="your_coverity_username"
```

```
export COVAUTHKEY="your_coverity_auth_key"
```

Optional - Coverity Server

```
export COVERITY_HOST="your-coverity-server.com"
```

```
export COVERITY_PORT="443"
```

```
export COVERITY_SSL="True"
```

```
export COVERITY_BASE_DIR="/path/to/coverity/workspace"
```

Optional - Corporate Proxy (if needed)

```
export PROXY_HOST="your-proxy-server.com"
```

```
export PROXY_PORT="3128"
```

```
export PROXY_USER="proxy_username" # if authentication required
```

```
export PROXY_PASS="proxy_password" # if authentication required
```

2. Claude Desktop Integration

Add to your `claude_desktop_config.json`:

```
json
{
  "mcpServers": {
    "coverity-connect": {
      "command": "coverity-mcp-server",
      "env": {
        "COVAUTHUSER": "${COVAUTHUSER}",
```