

# Jules MCP Server - Deployment Documentation

Generated: December 17, 2025

## 1. Domain Migration Summary

This document details the production domain migration from the Render platform URL to the custom Scarmonit domain.

| Property             | Previous                                     | Current            |
|----------------------|--|--------------------|
| Production URL       | antigravity-jules-orchestration.onrender.com | scarmonit.com      |
| Health Endpoint      | /health                                      | /health            |
| MCP Tools Endpoint   | /mcp/tools                                   | /mcp/tools         |
| MCP Execute Endpoint | /mcp/execute                                 | /mcp/execute       |
| SSL/TLS              | Render Managed                               | Cloudflare Managed |
| CDN                  | None   | Cloudflare         |

## 2. Production Architecture

| Layer     | Technology  | Purpose                                |
|-----------|-------------|--|
| DNS       | Cloudflare  | Domain management, SSL termination     |
| CDN/Proxy | Cloudflare  | DDoS protection, caching, edge routing |
| Hosting   | Render      | Container hosting, auto-deploy         |
| Runtime   | Node.js 18+ | MCP server execution                   |

|          |                  |                         |
|----------|------------------|-------------------------|
| API      | Express.js       | HTTP endpoints, routing |
| External | Google Jules API | AI coding sessions      |

## 3. API Endpoints

### 3.1 Health Check

```
GET https://scarmonit.com/health
```

Returns server health status, version, and configuration state. Used for monitoring and load balancer health checks.

### 3.2 MCP Tools List

```
GET https://scarmonit.com/mcp/tools
```

Returns list of available MCP tools: jules\_list\_sources, jules\_create\_session, jules\_list\_sessions, jules\_get\_session, jules\_send\_message, jules\_approve\_plan, jules\_get\_activities.

### 3.3 MCP Execute

```
POST https://scarmonit.com/mcp/execute
```

Executes MCP tools. Requires X-API-Key header for write operations. Request body: {tool: string, parameters: object}.

## 4. Environment Configuration

| Variable                            | Required | Description                                   |
|-------------------------------------|----------|---|
| JULES_API_KEY                       | Yes      | Google Jules API authentication key           |
| GOOGLE_APPLICATION_CREDENTIALS_JSON | No       | Service account JSON (alternative to API key) |
| PORT                                | No       | Server port (default: 3323)                   |
| ALLOWED_ORIGINS                     | No       | CORS allowed origins (comma-separated)        |
| NODE_ENV                            | No       | Environment (production/development)          |

## 5. Files Updated in Migration

The following files were updated to reference the new production domain (scarmonit.com):

- CLAUDE.md - Project configuration
- index.js - CORS ALLOWED\_ORIGINS
- antigravity-mcp-config.json - MCP config
- DEPLOYMENT.md - Deployment guide
- INTEGRATION.md - Integration guide
- .github/workflows/health-check.yml - CI/CD
- scripts/\*.ps1 - PowerShell scripts (12 files)
- scripts/\*.sh - Shell scripts (2 files)
- scripts/\*.js - JavaScript scripts (1 file)
- docs/\*.md - Documentation files (8 files)

## 6. Deployment Verification

### 6.1 Health Check Verification

```
curl https://scarmonit.com/health
```

Expected: {"status":"ok", "version":"2.3.0",...}

## 6.2 MCP Tools Verification

```
curl https://scarmonit.com/mcp/tools
```

Expected: {"tools": [...7 jules tools...]}

## 6.3 SSL/TLS Verification

```
curl -I https://scarmonit.com
```

Expected: HTTP/2 200, valid SSL certificate from Cloudflare

# 7. Support & Monitoring

Production URL: <https://scarmonit.com>

Health Dashboard: <https://dashboard.render.com>

DNS Management: <https://dash.cloudflare.com>

Repository: <https://github.com/scarmonit/antigravity-jules-orchestration>