

Task 6: Connect GitHub MCP Server with Gemini CLI

AI-Driven Development Challenge

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1) Create Your GitHub Personal Access Token (PAT)

Go to:

github.com → Settings → Developer settings → Personal access tokens → Tokens (classic)

Generate new token → Fine-grained, repo-scoped

Enable:

- repo (Read & Write)

2) Store the Token in a .env File

Create:

.env

Add:

GITHUB_MCP_KEY=your_token_here

3) Configure Gemini CLI

File: .gemini/settings.json

Paste:

```
{  
  "security": {
```

```
    "auth": {
```

```
      "selectedType": "oauth-personal"
```

```
    }
```

```
  },
```

```
  "mcpServers": {
```

```
"github": {  
    "httpUrl": "https://api.githubcopilot.com/mcp/",  
    "headers": {  
        "Authorization": "GitHub_mcp_key"  
    },  
    "timeout": 200000  
}  
}  
}
```

4) Restart Gemini CLI

Run:

/quit

gemini

5) Verify Connection

Command:

gemini status

Expected:

github — Ready (90+ tools)

6) Test MCP Server

Ask:

List my GitHub repositories.

If repositories are shown:

- ✓ MCP is fully connected
- ✓ AI can read, edit, commit, and push

Achievements:

- ✓ Full GitHub MCP Integration
- ✓ No Docker required