Required APIs & Tools

🥕 1. Google Gemini API

- Use: For analyzing scan results and generating reports.
- Signup:
 - Visit: https://makersuite.google.com/app
 - o Sign in with your Google account.
 - o Go to: https://aistudio.google.com/app/apikey
 - o Generate and copy your API key.
- **Replace** the line in your code:

```
python
CopyEdit
GEMINI API KEY = "gemini api key here"
with:
python
CopyEdit
GEMINI API KEY = os.getenv("GEMINI API KEY") # for security (optional)
```

% 2. ProjectDiscovery Nuclei

- Use: Scanning target for vulnerabilities using pre-built templates.
- **Installation**:

```
bash
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go install -v github.com/projectdiscovery/nuclei/v2/cmd/nuclei@latest
```

Add Go binary to your path (if not already):

```
bash
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export PATH=$PATH:$(go env GOPATH)/bin
```

Update Nuclei Templates:

```
bash
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nuclei -update-templates
```



3. Pandoc (for Markdown to PDF conversion)

Install on Kali/Linux:

```
bash
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sudo apt update && sudo apt install pandoc -y
```



Python Dependencies

Install required Python libraries:

```
bash
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pip install google-generativeai
```

You can also keep them in a requirements.txt:

```
txt
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google-generativeai
```

and run:

```
bash
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pip install -r requirements.txt
```



Project Directory Structure

Recommended structure:

```
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nuclei gemini scanner/
- scanner.py
  - requirements.txt
 - nuclei_scans/
```



: .env (Optional but recommended)

Store API keys in a .env file:

```
ini
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GEMINI_API_KEY=your_google_api_key
```

Install and use:

bash

```
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pip install python-dotenv
```

Modify script to load it:

```
python
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from dotenv import load dotenv
load dotenv()
GEMINI API KEY = os.getenv("GEMINI API KEY")
```

Other Important Guidelines

- ▲ Target must include http:// or https://
- **Don't hardcode** secrets in code. Use environment variables or .env.
- **Test each step individually** (Nuclei scan, Gemini analysis, Pandoc PDF generation).
- **!** Back up reports, especially if you're scanning multiple domains.
- Understand the templates you're using with Nuclei to avoid false positives.

Einal Commands to Run the Script

bash CopyEdit python3 scanner.py https://example.com

This will:

- 1. Run the Nuclei scan.
- 2. Use Gemini to create a Markdown report.
- 3. Convert it to a PDF.
- 4. Save it to your Desktop (or the path you set).