

# Getting Started with ThemisGuard

ThemisGuard is a cloud compliance automation tool that scans your GCP infrastructure for HIPAA-aligned misconfigurations without ever touching PHI. This document walks you through the steps to get started with scanning your GCP environment using ThemisGuard.

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## Prerequisites

- A Google Cloud Project
  - Billing enabled on your project
  - IAM permissions to create service accounts and assign roles
  - `gcloud` CLI installed
  - Python 3.11+
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## Step 1: Create a GCP Service Account

### Option A: Console

1. Visit [IAM & Admin → Service Accounts](#)
2. Click **Create Service Account**
3. Name: `themisguard-bot`
4. Role: `Cloud Asset Viewer` (`roles/cloudasset.viewer`)
5. Save and download the JSON key file

### Option B: Command Line

```
gcloud iam service-accounts create themisguard-bot \
  --description="ThemisGuard compliance scanner" \
  --display-name="ThemisGuard Bot"

gcloud projects add-iam-policy-binding YOUR_PROJECT_ID \
  --member="serviceAccount:themisguard-
bot@YOUR_PROJECT_ID.iam.gserviceaccount.com" \
  --role="roles/cloudasset.viewer"

gcloud iam service-accounts keys create ./themisguard-key.json \
  --iam-account=themisguard-bot@YOUR_PROJECT_ID.iam.gserviceaccount.com
```

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## Step 2: Set Up Environment Variables

```
export GOOGLE_APPLICATION_CREDENTIALS="./themisguard-key.json"
export GCP_PROJECT_ID="your-project-id"
```

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## Step 3: Install ThemisGuard

Clone the repo:

```
git clone https://github.com/your-org/themisguard.git
cd themisguard
```

Install dependencies:

```
pip install -r backend/requirements.txt
```

Install frontend:

```
cd frontend
npm install
```

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## Step 4: Crawl GCP Assets

From the root:

```
python scripts/asset_crawler.py
```

This generates:

```
gcp_assets.json
```

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## Step 5: Scan for Compliance Issues

```
opa eval -i gcp_assets.json -d policies -f pretty
```

Or to generate JSON output:

```
opa eval -i gcp_assets.json -d policies -f json > violations.json
```



## Step 6: Run ThemisGuard Locally

### Backend (FastAPI)

```
uvicorn backend.main:app --reload
```

### Frontend (Vite + React)

```
cd frontend  
npm run dev
```

Visit:

```
http://localhost:5173
```



## Optional: Automate via GitHub Actions

Set these GitHub secrets:

- `GCP_PROJECT_ID`
- `GCP_CREDS_JSON` (contents of `themisguard-key.json`)

The scan will run nightly or on-demand via workflow.



## Security Best Practices

- Do not check your service account key into version control
- Rotate keys quarterly

- Use a vault or secrets manager to store sensitive credentials
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## Need Help?

Join our Slack or open an issue at [github.com/your-org/themisguard](https://github.com/your-org/themisguard) to get support or suggest improvements.

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You're now ready to start scanning GCP for HIPAA compliance with ThemisGuard! 