# 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.

## 🚀 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+

## 🔐 Step 1: Create a GCP Service Account

### Option A: Console

1. Visit [IAM & Admin → Service Accounts](https://console.cloud.google.com/iam-admin/serviceaccounts)
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

## 🌐 Step 2: Set Up Environment Variables

export GOOGLE\_APPLICATION\_CREDENTIALS="./themisguard-key.json"  
export GCP\_PROJECT\_ID="your-project-id"

## 📦 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

## 🛰️ Step 4: Crawl GCP Assets

From the root:

python scripts/asset\_crawler.py

This generates:

gcp\_assets.json

## 🔍 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

## 🙋 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.

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