Engineer

Automated SSL/TLS certs for 100 Docker apps

Automated SSL/TLS certificate creation for 100 Docker applications, ensuring secure connections across Ubuntu Linux hosts.

2015 – 2022

100

applications given certificates without a hand

Situation. A hundred Docker applications all needed SSL/TLS certificates, and certificates are the kind of thing that's fine right up until they aren't. Issuing and renewing a hundred of them by hand is slow, it's dull, and it's exactly the sort of manual job where one forgotten renewal takes an app down with an expiry error at the worst possible moment.

Task. The goal was certificate creation and renewal automated — every app with valid, trusted encryption, and nobody having to remember to do anything.

Action. An ACME-based workflow handled the whole lifecycle for the hundred Docker applications — creating the certificates and renewing them before they lapsed — and deployed them automatically across the Ubuntu Linux hosts, which were running a mix of Apache and Nginx. The whole aim was to take the human out of it, because the human is the part that forgets.

Result. All hundred applications kept valid certificates and secure connections on their own. The manual certificate work just disappeared, and with it the whole category of outage where something breaks not because it failed but because a cert quietly expired and nobody noticed.

Bring this experience to your project

Use “Automated SSL/TLS certs for 100 Docker apps” as a starting point for a similar challenge in your organisation. The services behind this work are available for your project. Tested, released and reversible, so changes reach customers on a Tuesday afternoon rather than late on a Friday night.

Explore our services Get in touch →

Look behind the result

Read the situation, decisions and result in this example. We can discuss which parts transfer to your constraints and which need another approach. Automated SSL/TLS certs for 100 Docker apps — 100 applications given certificates without a hand

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Need HTTPS handled automatically everywhere?

Talk through your project with the engineer responsible for delivery. We agree the scope, price basis and handover in writing before work begins.

Role context: DevOps Engineer. It draws on DevOps, Infrastructure, Containers (Docker/Kubernetes), Automation & CI/CD, Reliability & Backups, Linux & Servers and Security. And while you are here, we are rather good at DevOps & CI/CD Automation, Containerization & Orchestration and Security & Access Management.

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One piece of **a longer record** — and it is all on this site.

Every entry is written the same way: the situation, the task, what we did and what changed.

See the whole record

Define the improvement you need

Bring the deployment path, the operational risks and the people on call. We can scope a change with checks, a recovery route and clear ownership.

See what it costs Get in touch →

Need HTTPS handled automatically everywhere?

Ask about the decisions behind “Automated SSL/TLS certs for 100 Docker apps”. You will speak with the people who can explain the work and assess your own project.

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