Engineer

Provisioned Azure infrastructure as code

Provisioned Azure infrastructure as code with Bicep — Container Apps, PostgreSQL Flexible Server, Front Door/WAF and networking — across the development, staging and production environments.

2025

three Azure environments, written down as code

Situation. The platform lives on Azure, and Azure done by hand — clicking through the portal, tweaking a setting here and there — is a trap. It drifts, nobody remembers why something is the way it is, and rebuilding it after a bad day is slow and nerve-wracking. With more than one environment to keep in step, that only gets worse.

Task. Put the whole thing in code, so an environment is something you can read, review and recreate rather than a pile of manual state.

Action. The estate is defined in Bicep. Each environment — testing, staging, product — comes out of the same templates: the api and www running as Azure Container Apps on a managed environment, a PostgreSQL Flexible Server, Redis for caching, Front Door with a WAF policy out in front, and the networking underneath it (VNet, NSG, private DNS), with Log Analytics wired in for diagnostics. Images are pulled from the project's Azure Container Registry. Because it's all parameterised, standing up a fresh environment or changing an existing one is a pull request, not a support ticket to yourself.

Result. The environments became reproducible and reviewable. Drift stopped being a mystery, because the source of truth is the code, and bringing infrastructure up or back is a matter of applying the templates rather than remembering what got clicked last time. It's the difference between infrastructure you own and infrastructure that owns you.

Bring this experience to your project

Use “Provisioned Azure infrastructure as code” as a starting point for a similar challenge in your organisation. The services behind this work are available for your project. Servers sized for what you actually use, moved into the cloud or back out of it, with the monthly bill worked out first.

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. Provisioned Azure infrastructure as code — three Azure environments, written down as code

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Want your cloud defined as code?

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 Platform Architecture, DevOps, Infrastructure, Cloud, Automation & CI/CD, Reliability & Backups, Networking & VPN and Security. And while you are here, we are rather good at Cloud Infrastructure & Migration, Infrastructure as Code, Networking & VPN Setup and Security & Access Management.

Get in touch Explore our services

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 →

Want your cloud defined as code?

Ask about the decisions behind “Provisioned Azure infrastructure as code”. You will speak with the people who can explain the work and assess your own project.

Explore our services

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Contact card

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