Infrastructure as Code (IAC)

What is it

- Infrastructure as code (IAC) is a formalised way of scripting infrastructure requirements that can then be played, and replayed, in a target environment.
- Because the setup is scripted it removes the possibility of human error when executing and can be backed up and managed in source control.

Who

- DevOps engineers.

Running the technique

- There are different formats required for different targets. Azure uses ARM, for example, Terraform can be configured cross-cloud, Vagrant can configure virtual machines and Kubernetes manifests are also in this category.
- Just like with software, you should test your IaC on a dummy environment before making changes to anything live.
- Your deployment pipeline should run the scripts in a target environment as part of the deployment process: Build, Test, Create (Iac), Deploy

Additional Material

- https://www.bmc.com/blogs/infrastructure-as-code/

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