

Candidate Test

Create a virtual machine (VM) in Azure on which a minimal container environment is set up. On it, deploy a Keycloak container and an attached Postgres database, as well as a web server with a static web page whose access is controlled by the Keycloak.

Implementation:

- The project is to be implemented on GitHub.
 - Creation according to the Git workflow
 - Creation of minimal but meaningful documentation (with architecture)
- Creation of all infrastructure components is to be done using Terraform.
 - Creation of necessary managed identities/service principals is not part of the task.
- Justify your choice:
 - of the components used
 - Why were the components created?
 - Why did you not use other components?
 - the images used
 - the network configuration
- All infrastructure configurational work should be done using Ansible wherever possible.
- Justify the choice of the container environment.
- Create GitHub Actions that will:
 - roll out
 - configure
 - and disassemblethe project.
- Name possible features that extend the project and describe the benefits of the features added.

Additional notes:

Use free trial accounts (<https://azure.microsoft.com/en-us/pricing/free-services/>) to work on the given task.

Links:

<https://azure.microsoft.com/en-us/pricing/free-services/>

<https://learn.hashicorp.com/collections/terraform/azure-get-started>

<https://docs.microsoft.com/de-de/azure/developer/terraform/>

<https://www.ansible.com/resources/get-started>