

EC2 RDS

Start of the Task

- using 1 file for everything
- splitting them at some point for easier management
- required provider - aws
- generate aws credentials
- configuring aws provider
 - set eu-west-1 as region
 - realization: there is no t2.micro instance in eu-west-1

EC2

- started with EC2 creation
- filling out fields needed
- as non defined fields come up, create required resource
 - creation of VPC
 - creation of subnet
 - EC2 needs to be accessed publicly
 - creation of needed gateway for the VPC
 - creation of Elastic IP
 - create route table and route for the public access

- user data for the PostgreSQL client
- security group setup for ssh access and http access
- generation of authorized keys for exclusive access to the instance using ssh

RDS

- creation of AWS DB instance
- specifying the instance class 'db.t3.micro'
- PostgreSQL 14.10
- requirement Multi-AZ -> new subnet in the different AZ
- user hardcoded
- password as variable for security reasons (even tho it is using default password)
- security groups for the second subnet
- allowing communication using sql using security groups

RDS and EC2

- table creation from EC2 using user data
- depends_on to ensure the order because we use EC2 to create a table in the DB
- Apache Web Server in user data as well