

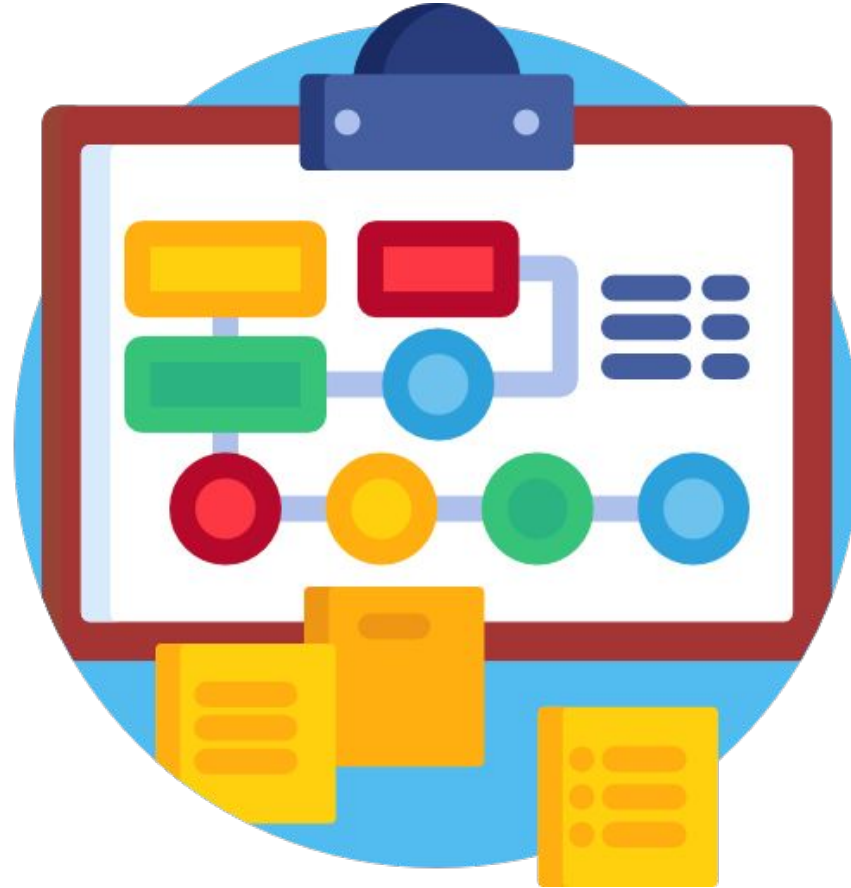
KV-126.DEVOPS

Offering Demo | DATE | TIME

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AGENDA

- Problem
- Solution
- Architecture
- Tech Stack
- Demo



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PROBLEM

It is a necessity to:

- receive notifications about new issues in the GitHub repo
- save them for further processing

It is difficult to separate incoming messages without third-party solutions and set up receiving messages to different chats and accumulation in the one workspace.



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SOLUTION

The application allows you to separate JSON files using issue label names and set up sending messages to the required Slack channel.

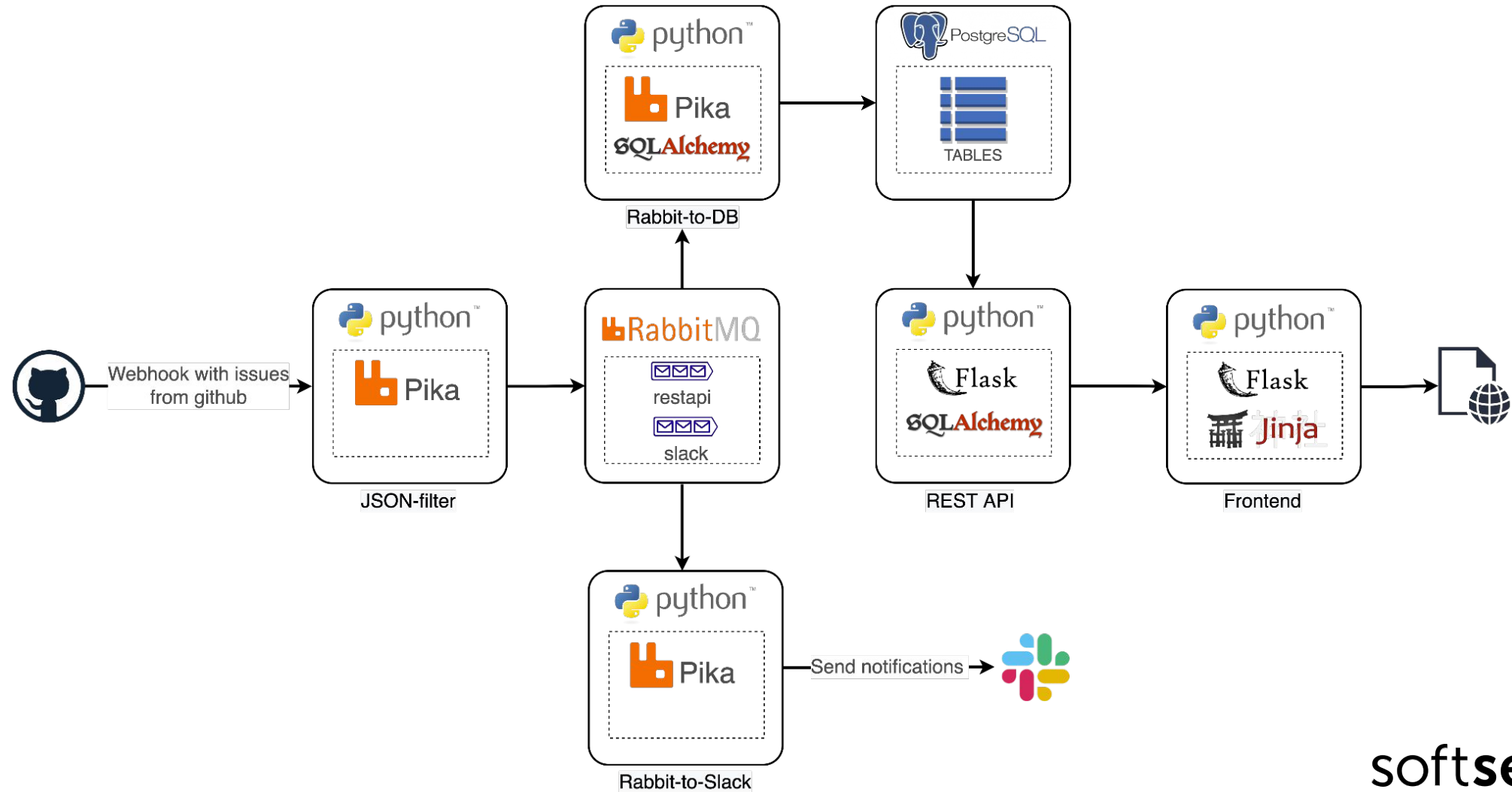
Additional features:

Web application allows you to save and view information about an Issue.



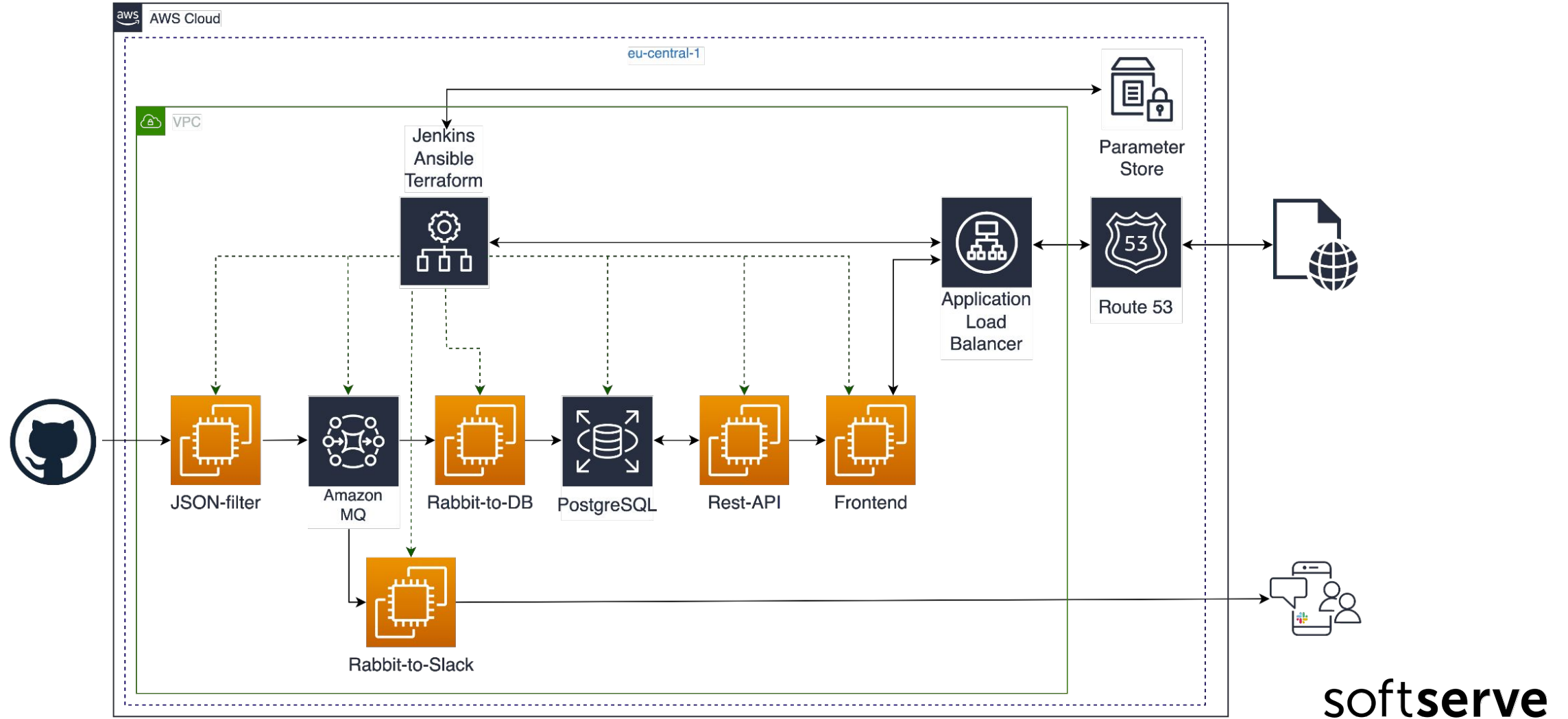
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APPLICATION ARCHITECTURE



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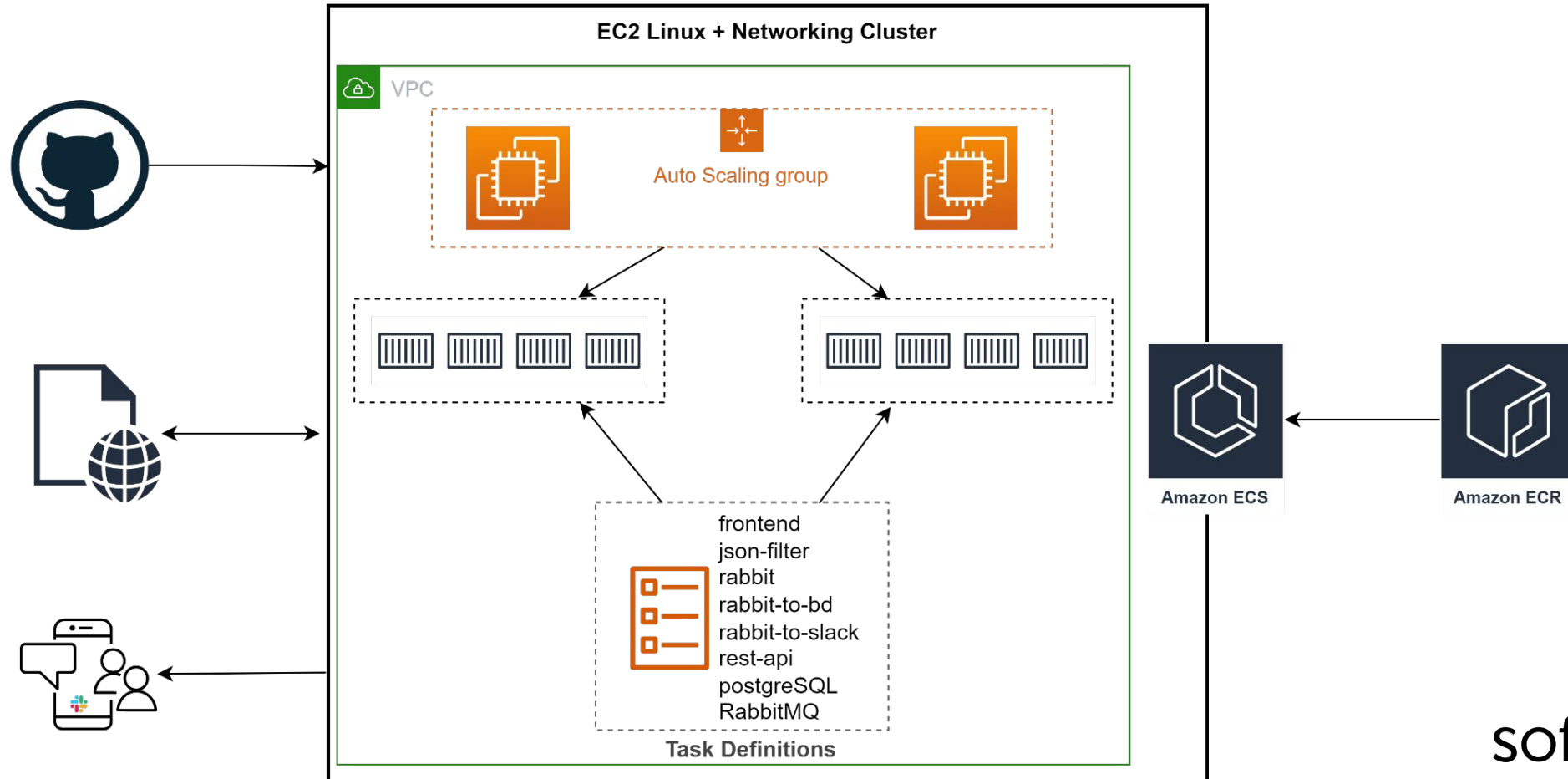
INFRASTRUCTURE ARCHITECTURE



INFRASTRUCTURE ARCHITECTURE

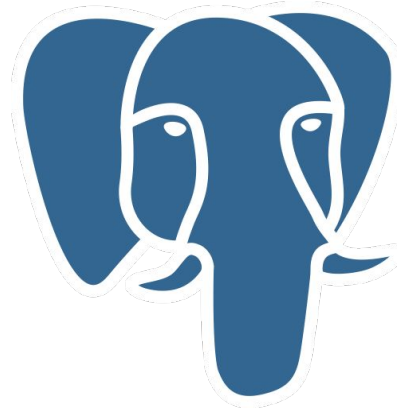


CONVERSION FROM MONOLITH INTO MICROSERVICES



APPLICATION TECH STACK

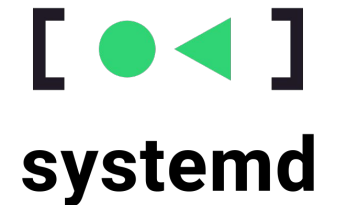
- Python (Flask, Pika, SQLAlchemy)
- PostgreSQL
- RabbitMQ



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INFRASTRUCTURE TECH STACK

- GitHub (Webhooks)
- Ansible (Molecule, Jinja, Dynamic Inventory)
- Terraform
- Jenkins (Declarative Pipeline)
- Amazon Linux
- SystemD



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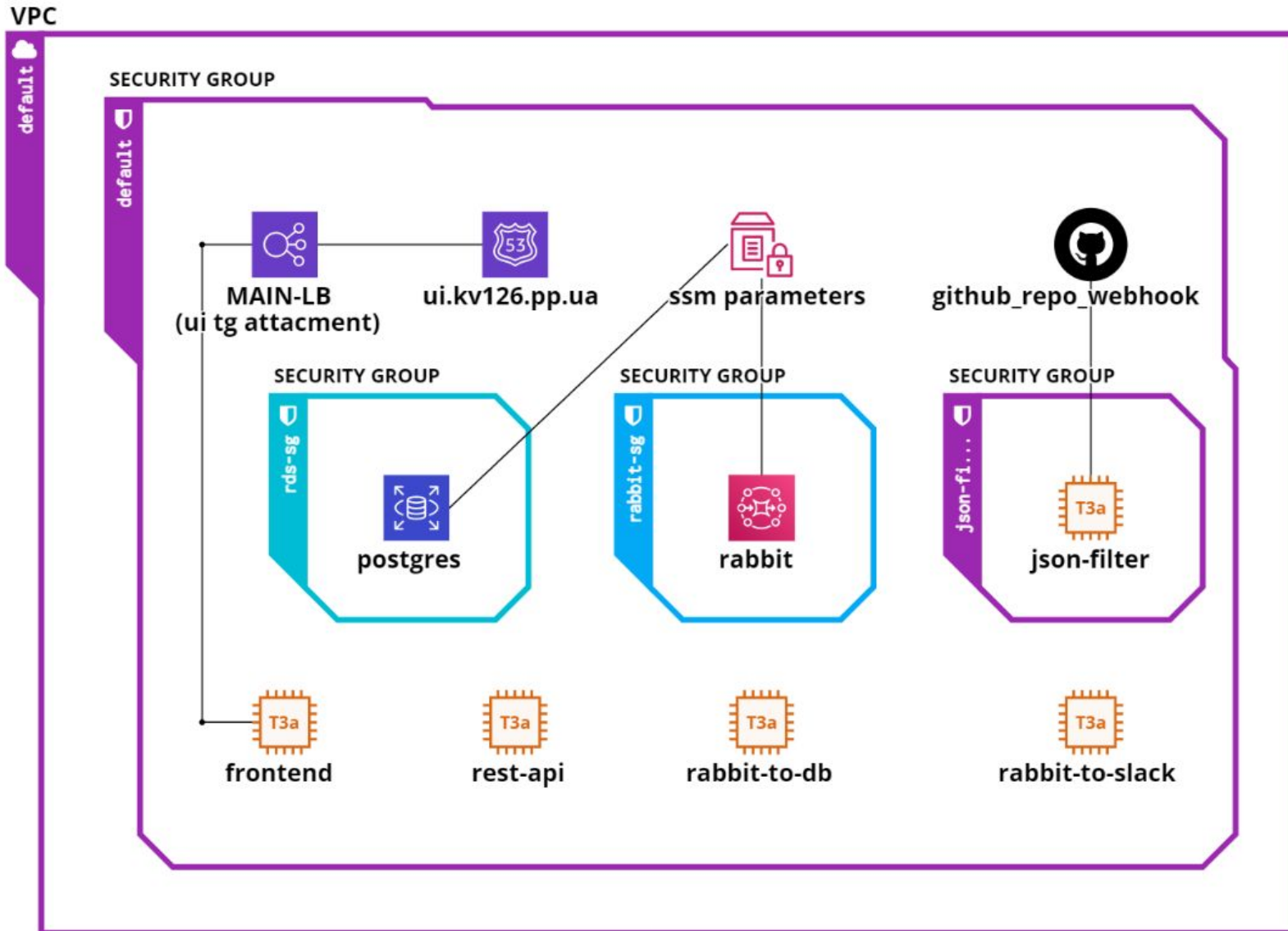
AWS TECH STACK

- VPC, Security Groups
- EC2, Load Balancer
- Amazon RDS
- Amazon MQ
- Identity and Access Management
- Route53
- Systems Manager Parameter Store
- Certificate Manager
- S3
- Billing
- CloudTrail
- CloudWatch
- DynamoDB



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INFRASTRUCTURE PROVISIONING



HashiCorp

Terraform

Providers:



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SERVICE PROVISIONING

