A blue parallelogram and a light green parallelogram are positioned in the top-left corner of the slide. The background is a dark navy blue with several lighter blue diagonal stripes running from the bottom-left towards the top-right.

A cloud-native performance monitoring system

DVA313 - Group 5

Team members



Roland Plaka
Gezim Cako
Sandra Eriksen
Ville Svensson
Gunnar Andersson
Emil Larsson
Johan Karlsson



RISE - Research institute of Sweden

Goals of the project

- Develop a cloud-native monitoring system of a virtual machine
- Performance information should be written to a logfile
- Visualized through a dashboard

RI.
SE



Features of the product

Completed:

- Main- and configuration pages
- Charts and diagrams
- Collection of data through AWS cloudWatch
- Hide metrics
- Stop collection
- Time span setting
- Database

Not completed:

- Toggle hidden metrics
- Logfile
- Logging multiple virtual machines



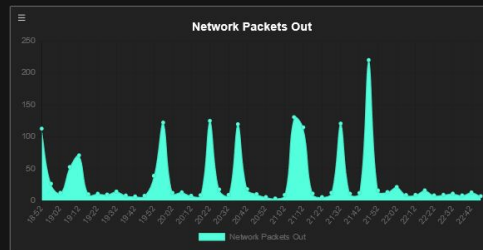
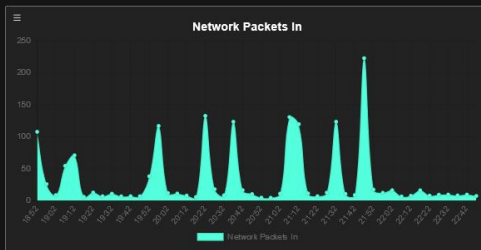
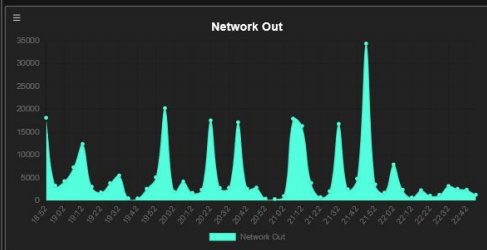
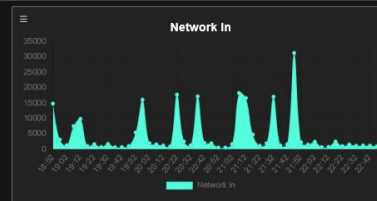
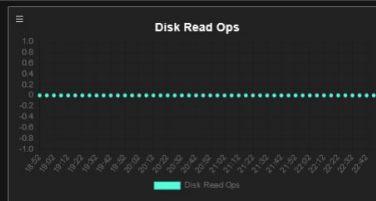
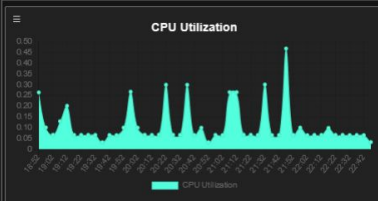
Features - Priority

Mainpage	HIGH
Configuration page	MEDIUM
Charts and diagrams	HIGH
Collection of data from AWS cloudWatch	HIGH
Hide metrics	MEDIUM
Stop collection of certain metrics	MEDIUM
Timespan setting	MEDIUM
Database	LOW

Demonstration

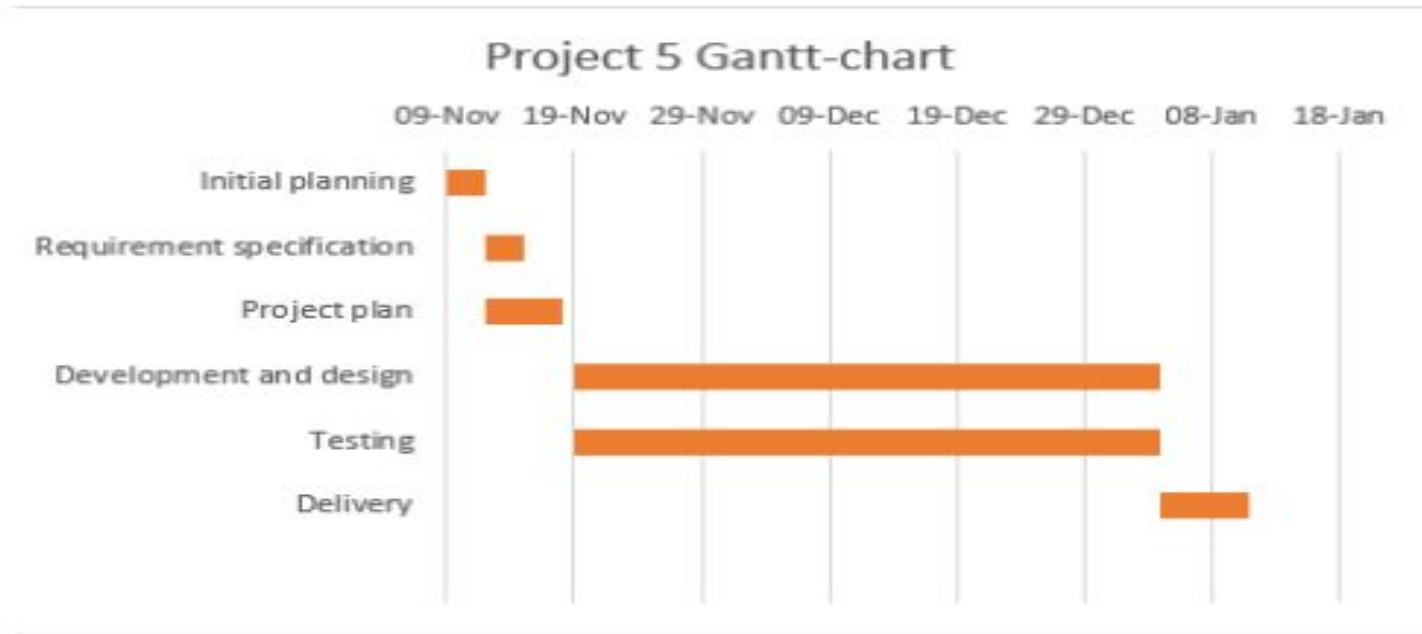


Time span ▾



Initial TimePlan

5.2 Initial Time Plan





Time and work management

- Team members were focused in the initial time plan
- Some tasks at the front end were removed and we put more attention on those emphasized by the client.



Project Organization

- Routines stayed the same during the all project.
- The internal meeting were held in same time.
- Team members put their effort on completing tasks according to the priority level.
- Avoiding the individual responsibilities they were not kept separated.



How was the effort distributed between activities.

- Project manager: Responsible for contacting the client and for the project management.
- Git Manager: Responsible for git repositories
- Divided the work equally.
- Frontend team
- Backend Team
- Database Team



How did we divide our work?

- Team member chose tasks according to their strengths
- Task were chosen sequentially from the sprint backlog
- Team divided into additional roles

- Backend Group
- Frontend Group
- Database Group



How did we divide our work?

–Backend Group

- Ville
- Johan
- Sandra

– Frontend Group

- Emil
- Gunnar

–Database Group

- Gezim
- Roland



How did we communicate?

- Communication tools:

- Discord for formal text communication
- Zoom for Steering Group meetings, Client meeting
- Email for contacting the client



Tools

- GitHub: Manage Distribute Coding
- Trello: Defining the weekly task
- Google Drive: Manage Documentation



What we have learnt

- AWS
- CloudWatch
- React
- Real project to an existing client
- Website development
- Scrum



Experience and problems

PROBLEMS

- No structured plan for meetings in the beginning
- Only general goals = moved forward slowly
- Got a Trello board late in the project
- Holidays

EXPERIENCE

- Good communication
- Active performance



Improvements and expectations

EXPECTATIONS

- Communication
- Active performance

IMPROVEMENTS

- A better plan for holidays
- Report times
- Get a trello board sooner