Process report group 13

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# Global work division

We'll start by making a rough plan for the whole project, including all the tasks that need to be done.

Then, we'll take that big plan and divide it up into smaller tasks for each week.

As we go along, we'll adjust our plan as needed to make sure we're on track and everything is getting done.

And of course, we'll make sure everyone knows what they're responsible for each week so we're all working together to get this done

***Disclaimer!***

(This is not a perfect representation of the work done in this project. We kind of forgot about it from week eight onwards, so we tried our best to gather all data and see what we did in the weeks after).

# Week 1

What we have done:

* Have an online lesson about our project kick-off and what to do.

## Minutes:

|  |  |  |
| --- | --- | --- |
| Date | Type of meeting | Accomplished work |
| 01-09-2022 | Initial info lesson | Learning about our project kick-off |

# Week 2

## Agenda meeting one:

* Asking question about the project, and talking about an idea.
* The questions:

## Ideas

* 1. Streaming website (Plex) with user logon
  2. Flask app/webapp with TKinter GUI for getting and storing user credentials in a website.
  3. AWS / AZURE
  4. AWS Backup
  5. NagiosXI autodiscorverer
  6. Suricata + snort rules "IDS / IPS"
  7. AWS automatic backup plans
  8. OpenVPN for vpn connection from cloud to on premisis server
  9. Plex / website run on kubernetes

## Questions

1. Does the app need to be a conventional app, or could it be an webapp?
2. What kind of app does it need to be? Are there any programs it needs to use / be linked too?
3. Does the app need to create a database and web server when you launch the app, or does the app need to run on one database and one web server?
4. What is the deal with the multidiciplinary project?
5. How do we access the on premesis server?
6. Do the requirements have to be self coded in the multidiciplinary project, or can we use existing programs?
7. Automate public and private instances in separate subnets design with automated scripts (Powershell, Terraform) or CloudFormation?
8. Is OpenVPN a good idea for the vpn connection between our cloud and the on premisis server?
9. “App generates user credentials to connect to DB and/or WEB server” Should we use SQL Server to create login credendials manually?
10. Can we replace Docker with Kubernetes?
11. “Use of secrets management for database instances.”???
12. What does Use of secrets management for database instances mean?
13. Public front-end and private back-end instances in separate subnets.(public webapp and nagios,database separately?))

## Meeting one:

This meeting took place on 09/09/2022. This meeting took place online. Jorn was the note taker, Soufiane the leader and Mihai was another note taker / observer. In this meeting, Andrius gave more information about the project and answered our questions.

things we noted were:

* Tool that can create an infrastructure for projects of clients, so if a client wants a webserver, we have a tool which creates this infrastructure, a place where the clients can host their things.
* Multidisciplinary project later.
* Secrets management is about storing info aka secrets in a secure way.
* For next meeting, come up with good idea, written down, what problem its solving, justification, make process report.

## Minutes:

|  |  |  |
| --- | --- | --- |
| Date | Type of meeting | Accomplished work |
| 08-09-2022 | Starting project | Analysing project instructions and coming up with questions and ideas. |
| 09-09-2022 | Tutor meeting one | Asking questions to Andrius and sharing our ideas. |

## Who did what?:

Jorn: Coming up with ideas and questions ± 2hours.

Soufiane: Coming up with ideas and questions. ± 2hours.

Mihai: Coming up with ideas and questions. ± 2.5hours.

# Week 3

## Agenda meeting two:

* Showcasing first draft of project plan
* Showing process report

## Meeting two:

This meeting took place on 15/09/2022. This meeting took place in school.

Things we noted were:

* Make git repo met andrius
* Make infrastructure as a code, add automation
* Proof of concept two places to store files, aws and local.
* Multiple file uploads more endpoints / instances for expansion
* Webservice is tool to create infrastructure - check topics were are gonna be teached
* We need to make complete design document - automation tool convert file, store on fontys or aws.
* Private subnet to store data Public website(read about vpc)
* Terraform Start with hosting service, data on premise Fontys
* Try to use both AWS storage and on premise at Fontys(can be done with bash script) as a question for the user
* Convert file format option possibly
* Possiblities:
* expand infrastructure with docker, API tools for file sharing, Lambda functions
* Working idea maybe +design document

## Minutes:

|  |  |  |
| --- | --- | --- |
| Date | Type of meeting | Accomplished work |
| 15-09-2022 | Working on project | Working on project plan / process report 2.5 hours |
| 15-09-2022 | Tutor meeting 2 | Talking about project plan and polishing it 30min. |

## Who did what?:

Jorn: Made the process report ±30min, worked on project plan ±1 hour

Soufiane: Worked on project plan

Mihai: Worked on project plan

# Week 4

## Agenda meeting three:

* Showcasing first draft of design document
* Talking about improved idea

## Meeting three:

This meeting took place on 22/09/2022. This meeting took place in school.

Things we noted were:

-Project backgroud

why it started, who we are, what we are developing, what is needed

-Problem def

what is our currect situation in the world, why we started this idea

-Project goal more detail, argument it why it need to be done, why it is handy

-expected results probably overlapping, more precise of what we will deliver in the end

-Discribe agile aproach of this project in the way of working

-EVERYTHING MORE DETAIL!!!!!!!!!!!!!!!!!!

-Scope, what is in / out of scope in this project

-more details about tutor

-risk assesment, how to mittigate, counter actions agains the risks (price issues likely)

-remove pdp from deliverables, thats from the course, not project. What are we going to deliver with the project

-no hardware will be delivered by us, maybe put it in the scope

-develop own host / convert platform

-first do everything manual, then proceed to make it automatic

-too small of a planning

## Minutes:

|  |  |  |
| --- | --- | --- |
| Date | Type of meeting | Accomplished work |
| 19-09-2022 | Working on project | Working on plan and design document 2.5 hours |
| 20-09-2022 | Tutor meeting 3 | Talking about the project and our idea 40 min |

## Who did what?:

Jorn: Worked on design document ± 1hour, updates process report ±10min, made first start website ±1hour

Soufiane: Worked on design document, worked on project plan

Mihai: Worked on design document ±1h

# Week 5

## Agenda meeting four:

* Projectplan
* Design document
* Webapp
* Asking questions about the on premises server

## Meeting four:

This meeting took place on 29/09/2022. This meeting took place in school.

Things we noted were:

* Version control file next meeting about what changed.
* Goals is to develop well performing infrastructure which can be expanded and moved between companies. How will we make it perform well.
* Way of working needs to be more presice, more specific thing we are using like agile or waterfall or scrum, better explination.
* Change maybe to unlikely.
* Subchapter nondeliverables.
* Deliverables also our product we are developing, like scripts, or git repo.

## Minutes:

|  |  |  |
| --- | --- | --- |
| Date | Type of meeting | Accomplished work |
| 26-09-2022 | Working on project | Working on project plan / process report 2.5 hours |
| 27-09-2022 | Tutor meeting 4 | Talking about design document and polishing it, showing webapp 30min. |

## Who did what?:

Jorn: Worked on process report ± 30min, worked on project plan ± 30min, made webapp storage upload to AWS and local ± 5 hours.

Soufiane: Worked on project plan, worked on design doc, made webapp storage upload to AWS and local ± 2 ½ hours.

Mihai: Worked on project plan ±30min, worked on design doc ±30min, project idea research ±1h

# Week 6

## Agenda meeting five:

N/A, presentation

## Minutes:

|  |  |  |
| --- | --- | --- |
| Date | Type of meeting | Accomplished work |
| 03-10-2022 | Working on project | Made the process report, worked on project plan |
| 04-10-2022 | Working on project | Researching local storage vpn connection to AWS |
| 05-10-2022 | Working on project | Implemented video converter in website, |
| 06-10-2022 | Working on project | Implemented video converter in website, |

## Who did what?

Jorn: Made the process report ± 30 min, worked on project plan ± 2 hours, worked in AWS network ± 2 hours

Soufiane: Worked on project plan ± 2 hours, worked on design doc, worked in AWS network ± 3 hours

Mihai: Worked on project plan, worked on design doc, AWS network research ±1.5h

# Week 7

## Agenda meeting six:

* Sharing our progress
* Asking about monitoring, ec2 instance or CloudWatch/trail?

## Minutes:

|  |  |  |
| --- | --- | --- |
| Date | Type of meeting | Accomplished work |
| 10-10-2022 | Working on project | Created URS |
| 11-10-2022 | Working on project | Working on database for webapp  ECS or ec2 deployment research |
| 12-10-2022 | Working on project | Load balancing and autoscaling, Working on database for webapp |
| 13-10-2022 | Working on project | Working on database for webapp  ECS or ec2 deployment research |

## Who did what?

Jorn: Worked on connecting the database to Webapp ± 3 days.

Soufiane: Worked on project plan, worked on design doc, worked in AWS network, Worked on connecting the database to Webapp ± 2 days.

Mihai: Worked on project plan, worked on design doc, researching ECS or ec2 deployment ±1h

# Week 8

## Agenda meeting seven:

* Sprint goals?
* URS
* Load balancing and autoscaling
* Database webapp

## Minutes:

|  |  |  |
| --- | --- | --- |
| Date | Type of meeting | Accomplished work |
| 17-10-2022 | Working on project | Implemented video converter in website  made URS |
| 18-10-2022 | Working on project | Researching local storage vpn connection to AWS,  made webapp video converter |
| 19-10-2022 | Working on project | Made the process report, worked on project plan, Implemented video converter in website |
| 20-10-2022 | Working on project |  |
| 21-10-2022 | Working on project |  |

## Who did what?

Jorn: Made the process report± 1hours, worked on project plan± 1hours, made webapp video converter ± 7hours, connect bucket to webapp ± 2hours

Soufiane: Worked on project plan, worked on design doc, worked in AWS network, connect bucket to webapp ± 2hours, made URS ± 2 ½ hours,

Mihai: Worked on project plan ±1h, worked on design doc ±1h, S3 bucket research ±30min

# Week 9 (autumn break)

## Agenda meeting:

N/A, vacay

## Minutes:

|  |  |  |
| --- | --- | --- |
| Date | Type of meeting | Accomplished work |
| 24-10-2022 | Working on project |  |
| 25-10-2022 | Working on project |  |

## Who did what?

* Jorn: N/A
* Soufiane: N/A
* Mihai: N/A

# Week 10 (school week 9)

## Agenda meeting eight:

* Fargate struggles
* Pushing docker-compose to Dockerhub
* Struggles with VPN to Infralab and thinking about VPN connection to Azure

## Minutes:

|  |  |  |
| --- | --- | --- |
| Date | Type of meeting | Accomplished work |
| 31-11-2022 | Working on project |  |
| 1-11-2022 | Working on project |  |
| 2-11-2022 | Working on project | Tried pushing docker compose to Dockerhub  researching ECS or ec2 deployment |
| 3-11-2022 | Working on project | Tried pushing docker compose to Dockerhub  researching ECS or ec2 deployment |
| 4-11-2022 | Working on project | Tried pushing docker compose to Dockerhub  Database research |

## Who did what?

* Jorn: Tried pushing docker compose to Dockerhub ± 10hours
* Soufiane: researched about storage solutions for local server ± 2hours, researched vpn connection to infralab ± 1hours, tried to setup vpn connection to infralab ± 3hours
* Mihai: researching ECS or ec2 deployment ±4h, database research ±1h, VPC planning and research ±1h

# Week 11 (school week 10)

## Agenda meeting nine:

N/A, vacay

## Minutes:

|  |  |  |
| --- | --- | --- |
| Date | Type of meeting | Accomplished work |
| 7-11-2022 | Working on project | Uploaded dockerv1 to ecr, Updated network drawing |
| 8-11-2022 | Working on project | Tried putting webapp on EC2 ± 1hours,  Setup vpn connection from AWS to,  Worked on presentation ± 2hours, |
| 9-11-2022 | presentation |  |

## Who did what?

* Jorn: Worked on presentation ± 2hours, Uploaded dockerv1 to ecr ± 1hours, Updated network drawing ± 30, minutes, tried putting webapp on EC2 ± 1hours
* Soufiane: Worked on presentation ± 2hours, Setup vpn connection from AWS to infralab ± 3hours, setup storage location in infralab ± 1hours, minutes, tried putting webapp on EC2 ± 1hours.
* Mihai: Worked on presentation ± 2hours, ecr research ±30 min,docker webapp on EC2 ± 1h

# Week 12 (school week 11)

## Agenda meeting ten:

* Progress on ELB, ECS not working properly, monitoring
* Automating, vpn connection, Azure
* Docker image not working, automation

## Minutes:

|  |  |  |
| --- | --- | --- |
| Date | Type of meeting | Accomplished work |
| 14-11-2022 | Working on project | Working on Flask webapp  ECR and AMI research |
| 15-11-2022 | Working on project | Working on Flask webapp  ELB troubleshooting and research |
| 16-11-2022 | Working on project | Working on Flask webapp  researched about terraform script to create RDS |
| 17-11-2022 | Working on project | Working on Flask webapp  ELB troubleshooting |
| 18-11-2022 | Working on project | Fixed Flask webapp  Researching about Azure and blob storage  autoscale research |
| 19-11-2022 | Working on project |  |

## Who did what?

* Jorn: Fixed Flask webapp running in one container with nginx+Gunicorn ± 15hours
* Soufiane: Researching about Azure and blob storage ± 1hours, researched about terraform script to create RDS ± 3 hours, researched about VPN between azure and AWS ± 3hours.
* Mihai: ECR and AMI research ±2h, ELB troubleshooting and research ±3, autoscale research ±1

# Week 13 (school week 12)

## Agenda meeting eleven:

N/A, vacay

## Minutes:

|  |  |  |
| --- | --- | --- |
| Date | Type of meeting | Accomplished work |
| 21-11-2022 | Working on project | Researching solution for docker container with webapp, Troubleshooting with ECS docker compose files, researched about terraform script to create RDS,  Autoscale deployment  Fargate webapp hosting |
| 22-11-2022 | Working on project | Researching solution for docker container with webapp, Troubleshooting with ECS docker compose files, Autoscale deployment  Fargate webapp hosting  application load balancing |
| 23-11-2022 | Working on project | Researching solution for docker container with webapp, Troubleshooting with ECS docker compose files, Autoscale deployment  application load balancing |
| 24-11-2022 | Working on project | Researching solution for docker container with webapp, Researching about Azure and blob storage, |
| 25-11-2022 | Working on project | Researching solution for docker container with webapp, Autoscale deployment  application load balancing |
| 26-11-2022 | Working on project | Researching solution for docker container with webapp, researched about VPN between azure and AWS, |
| 27-11-2022 | Working on project | Researching solution for docker container with webapp, Researching about Azure and blob storage,  Application load balancing |

## Who did what?

* Jorn: Troubleshooting with ECS docker compose files ± 8hours, Researching solution for docker container with webapp ± 12hours
* Soufiane: Researching about Azure and blob storage, researched about terraform script to create RDS ± 3 hours, researched about VPN between azure and AWS ± 3hours, researched solution for docker container with web-app ± 3 hours.
* Mihai: manually hosting on Fargate webapp (different from project webapp) ±4h, application load balancing±3h, cloudwatch autoscale alarms deployment for fargate tasks ±4h

# Week 14 (school week 13)

## Agenda meeting twelve:

* Progress on automation script(autoscale/elb/fargate)
* Automating, Azure, infralab
* Terraform script edit (merging database code error/hardware usage)
* Questions about presentations

## Minutes:

|  |  |  |
| --- | --- | --- |
| Date | Type of meeting | Accomplished work |
| 28-11-2022 | Working on project | Made hosted zone  HTTPS LB with certificate |
| 29-11-2022 | Working on project | Setup vpn connection between azure and AWS |
| 2-12-2022 | Meeting | Researching local storage vpn connection to AWS |
|  | Working on project | Worked on terraform database issue ± 2hours |

## Who did what?

* Jorn: Researching about Azure and blob storage ± 2hours, Worked on terraform database issue ± 2hours, Researched about making hosted zone ± 30minutes
* Soufiane: Researching about Azure and blob storage, researched about terraform script to create RDS ± 3 hours, setup VPN between azure and AWS ± 1hours
* Mihai: hosted zone ± 45minutes route53 reasearch, HTTPS loadbalancer with certificate research ±1h and testing

# Week 15 (school week 14)

## Agenda meeting thirteen:

N/A, vacay

## Minutes:

|  |  |  |
| --- | --- | --- |
| Date | Type of meeting | Accomplished work |
| 5-12-2022 | Working on project | Worked on Terraform, worked on documentation |
| 6-12-2022 | Working on project | Worked on Terraform, worked on presentation |
| 9-12-2022 | Presentation | N/A |

## Who did what?

* Jorn: Worked on Terraform script added Route53 / load balancer / vpc’s / and added database / s3 / VPN / PCX ± 8hours
* Soufiane: updated network drawing and general documentation ± 3hours, worked on presentation ± 1hours, worked on Terraform scripts VPC/VPN/RDS ± 4hours
* Mihai: PPT presentation ± 2hours, researched auto-scaling, ecs, elb, iam, route53, HTTPS Terraform automation scripts ± 2 hours, documentation updates ±1h

# Week 16 (school week 15)

## Agenda meeting fourteen:

* Automatic backups of RDS
* Setup EC2 with Prometheus and Grafana
* Connect Azure to webapp
* Creating Terraform script for VPN/VPC
* Connecting Fargate to Prometheus EC2

## Minutes:

|  |  |  |
| --- | --- | --- |
| Date | Type of meeting | Accomplished work |
| 12-12-2022 | Working on project | Add VPN/VPC script to Terraform |
| 13-12-2022 | Working on project | Connected Azure to the webapp |
| 14-12-2022 | Working on project | Worked on domain / loadbalancer ACM problem  setup an EC2 instance with docker and Prometheus |
| 15-12-2022 | Working on project | Fixed domain / loadbalancer ACM problem  Container Insights temporary solution  AWS VPC |
| 16-12-2022 | Working on project | Researching RDS backup, research autoscaling with Prometheus metrics, automating Grafana deployment, AWS VPC |
| 20-12-2022 | Meeting |  |

## Who did what?

* Jorn: Fixed domain / loadbalancer ACM problem ± 8hours, Researching RDS backup ± 30minues, Connected Azure to the webapp ± 2hours, Add VPN/VPC script to Terraform ± 3hours.
* Soufiane: worked on RDS backup ± 3hours, research about auto-scaling with Prometheus metrics ± 1hours, connected azure to web-app ± 2hours, , Add VPN script to Terraform ± 3hours, setup an EC2 instance with docker and Prometheus ± 1hours
* Mihai: Implemented auto-scaling, ecs, elb, iam, route53, HTTPS Terraform automation scripts ± 2 hours, researched automating grafana deployment ±1h, CloudWatch and CloudTrail and a datasource research ±2h, Container Insights enabling and dashboard creation ±1h, AWS VPC planning and research ±1h

# Week 17 (Christmas break)

## Agenda meeting:

N/A, vacay

## Minutes:

|  |  |  |
| --- | --- | --- |
| Date | Type of meeting | Accomplished work |
| 19-12-2022 |  |  |
| 20-10-2022 |  |  |

## Who did what?

* Jorn: N/A
* Soufiane: N/A
* Mihai: N/A

# Week 18 (Christmas break)

## Agenda meeting:

N/A, vacay

## Minutes:

|  |  |  |
| --- | --- | --- |
| Date | Type of meeting | Accomplished work |
| 26-1-2023 |  |  |
| 27-1-2023 |  |  |

## Who did what?

* Jorn: N/A
* Soufiane: N/A
* Mihai: N/A

# Week 19 (Christmas break / school)

## Agenda meeting:

N/A, vacay

## Minutes:

|  |  |  |
| --- | --- | --- |
| Date | Type of meeting | Accomplished work |
| 7-1-2023 | Worked on project | Implemented Grafana, implemented prometheus |
| 8-1-2023 | Worked on project | Put node exporter in webapp |

## Who did what?

* Jorn: put node exporter in webapp ± 3hours,
* Soufiane: setup Prometheus and made it work with the node export ± 2hours, did small research on how to put node-exporter into web-app ± 1hours,
* Mihai: creating Grafana Cloudformation stack and Dashboards ±4hours, research about connecting to Fargate through Docker and adding Node exporter ±1hours

# Week 20 (school week 17)

## Agenda meeting fifteen:

* Documentation and presentation feedback
* Groupwork assignments (Kubernetes, CI/CD)
* Automation scripts feedback
* Azure/backup project work

Notes:

* tell about assignment in PDP if not used
* how to use in project if it’s not implemented in the cs project
* advice if you would use it in the project

## Minutes:

|  |  |  |
| --- | --- | --- |
| Date | Type of meeting | Accomplished work |
| 9-1-2023 | Working on project |  |
| 10-1-2023 | Working on project | Worked on presentation, setup locust, did some testing |
| 11-1-2023 | Presentation |  |
| 13-1-2023 | Working on project / Meeting | Fixed security groups and network ACL’s, Remade design document & project plan, Made (ERD/Activity/UseCase), |
| 14-1-2023 | Working on project | Made the webapp setup part in technical / user manual, Made test report, made the prometheus part in user manual |
| 15-1-2023 | Working on project | Finishing process report |

## Who did what?:

* Jorn: remade design document ± 2hours, made (ERD/Activity/UseCase) diagrams ± 1.5hours, made the webapp setup part in technical / user manual ± 1hour, fixed security groups and network ACL’s ± 1 hour, worked on test report ± 1hour, Worked on presentation ± 1 hour, Finishing process report ± 2hours.
* Soufiane: Setup locust ±2 hour, did some testing with locust ±1 hour, changed some parts of the design-document ±1 hour, Configured Prometheus to scrape the node exporter ±1 hour, worked on presentation ±1 hour. Created user manual for Prometheus ±2 hour, Finishing process report ± 2hours, fixed security groups and network ACL’s ± 1 hour.
* Mihai: Setup locust ±2 hour, locust testing ±1hour, changed some parts of the design-document, project plan ±3 hour, researching how to scrape ECS/installing node exporter ±2, researching network ACL/Security Group errors ±1, final presentation±2, user manual Terraform, Grafana, Locust ±2, finishing process report ±2, Load test report ± 2hour

# Individual reflections

Jorn:

* **Strong/Weak traits that affected the project**

I think because we were all new to AWS, it was kind of hard for us in the beginning to start, due to us not knowing which services we could implement. This caused the project plan and design document to take longer than expected.

* **Learning moments from the project**

Better communication in the holidays. Because we had a lack of this, the project was kind of rushed at the end.

* **Evaluation of spent effort**

I think I spend more than enough effort on this project. I worked very hard to deliver a working product, even if it drove me insane (I’ve worked on some problems for over 1 week). I always tried to understand everything that was going on at all times.

* **Improvements for next project (what could you do better next time?)**

An improvement could be communication and tidying up the project documentation. So for example we don’t have to make process report on the last day. And so we don’t have to rush the project at the end.

Soufiane:

* **Strong/Weak traits that affected the project**

Unfamiliarity with AWS and all the other topics made the project go a bit slow at some times

* **Learning moments from the project**

We should’ve put more effort in the documentation and on our way of working, also better communication because some times there was almost no communication at all.

* **Evaluation of spent effort**

I think I spent a good amount of effort in to researching and (trying to implement) implementing the various features into our project. I also spent some time helping my fellow students as well as my group mates whenever they needed assistance.

* **Improvements for next project (what could you do better next time?)**

We should’ve put more effort in the documentation and on our way of working, also better communication because sometimes there was almost no communication at all.

Mihai:

* **Strong/Weak traits that affected the project**
* in the first few weeks, unfamiliarity with the Cloud could often be intimidating.

I have adapted to the learning process after conducting independent study and asking classmates and teachers.

* **Learning moments from the project**
* The greatest learning moments must have occurred when we had to launch new features rapidly within the past week.
* This may have been avoided with improved communication throughout the break and strategy around who handles what tasks when connecting our work.
* **Evaluation of spent effort**
* I believe I should have spent more time implementing my research and assigning myself unrelated group tasks.
* Working on the same challenges may result in various solutions.
* To avoid losing track of my efforts, I should have devoted more time to my own recordkeeping.
* **Improvements for next project (what could you do better next time?)**
* Improvements can be made to initial planning and work distribution.
* However, after obtaining expertise in an entire new field, I feel more secure in my future Cloud research.