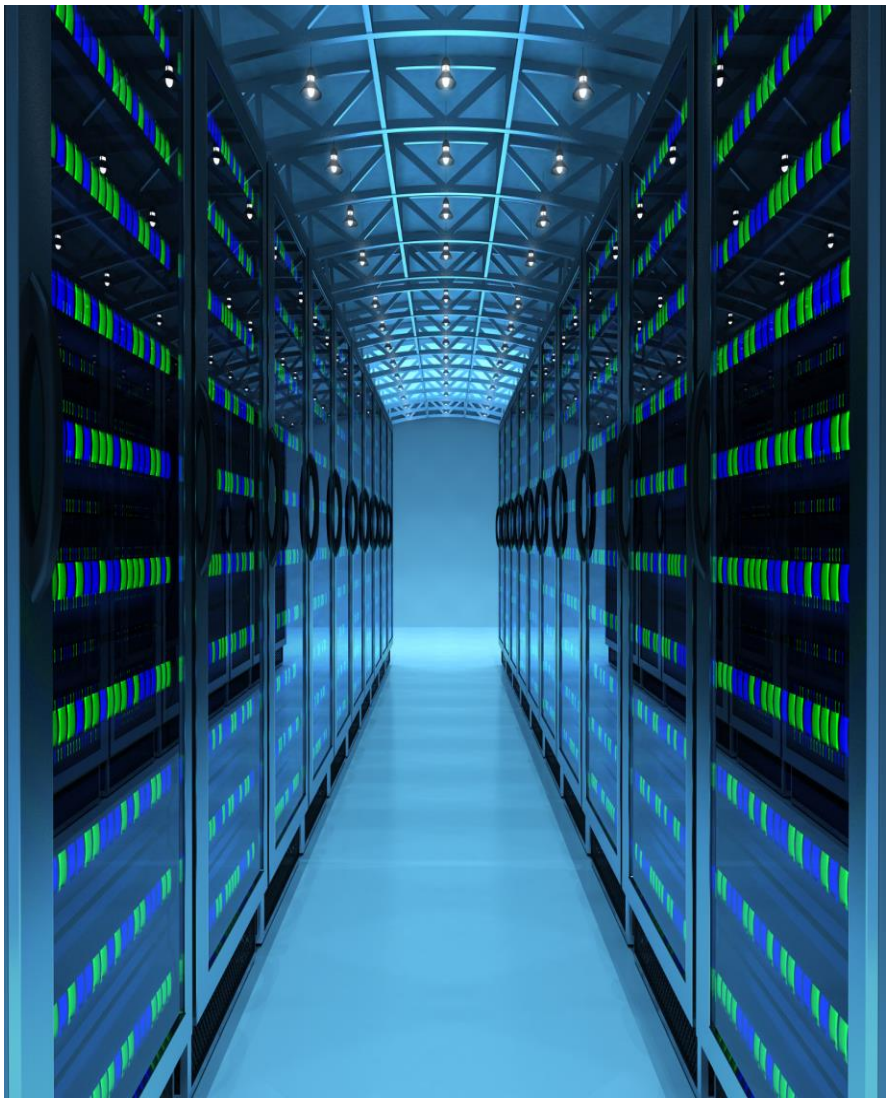
SemesterPDP



Studentname: Imraan Douieb
Studentnumber: 461148
Class: I-OE2-DB
Semester: Third semester
Version: v1.0
Date: 15-11-2022

Versiebeheer

Versienummer	Datum	Auteur	Veranderingen
v1.0	15-11-2022	Imraan Douieb	Submit PDP 1

Contents

1 Introduction 4
2 Learning outcomes 5
2.1 Orchestration 5
2.1.1 Action taken 5
2.1.2 Reflection 5
2.2 Network Orchestration 6
2.2.1 Action taken 6
2.2.2 Reflection 6
2.3 Automation 7
2.3.1 Action taken 7
2.3.2 Reflection 7
2.4 Security 8
2.4.1 Action taken 8
2.4.2 Reflection 8
2.5 Supporting services 9
2.6 Monitoring 10
2.6.1 Action taken 10
2.6.2 Reflection 10

1 Introduction

My name is Imraan Douieb, 22 years old and I'm from Helmond city. Before HBO-IT I did MBO-IT at the ROC Ter AA. I have chosen to do HBO-IT so I can learn more about IT. I have chosen IT and Infrastructure because it fits in well with my prior knowledge, and because it fits best with the profession I want to practice in the future.

2 Learning outcomes

2.1 Orchestration

- **About:** You have shown that you can create a process and choose the right tools that coordinate the installation, configuration and deployment of applications in an infrastructure.
- **Explanation:** The process and tools coordinate the infrastructure as a whole

For this learning outcome I give myself **Orienting** for the following reasons:

I have did some exercises on Security & Network Orchestration and on Automation & Orchestration. But I still think and feel that it is not good. I must work more to understand orchestration.

2.1.1 Action taken

For this learning outcome I created some exercises to show some what I did for the learning outcome.

For Automation I created an ansible control node and have run some playbooks to install some stuff on the controlled nodes:

AO Week2:

https://fhict.instructure.com/courses/12690/assignments/209608?module_item_id=848551

AO Week3:

https://fhict.instructure.com/courses/12690/assignments/209609?module_item_id=848552

For S&NO I created an AWS-environment with a VPC and multiple subnets. I created a few ec2-instances. I created users and groups in IAM and gave them permissions based on their group function.

S&NO Week2:

https://fhict.instructure.com/courses/12690/assignments/209592?module_item_id=848567

S&NO Week3:

https://fhict.instructure.com/courses/12690/assignments/209593?module_item_id=848568

2.1.2 Reflection

I think that what I have done until now for those learning outcomes is still not enough to master it. I still must work hard to master those learning outcome. To do that I will work harder within my study-case group and make some orchestration-taskes to achieve this goal.

2.2 Network Orchestration

- **About:** You have shown that you can create a process and choose the right tools that coordinate the topology of the network in an infrastructure.
- **Explanation:** Configure the network on logical level such as modification of the bandwidth, connections, routing, filtering etc.

For this learning outcome I give myself **Orienting** for the following reasons:

I have did some exercises on Security & Network Orchestration and on Automation & Orchestration. But I still think and feel that it is not good. I must work more to understand orchestration.

2.2.1 Action taken

For this learning outcome I created some exercises to show some what I did for the learning outcome.

For Automation I created an ansible control node and have run some playbooks to install some stuff on the controlled nodes:

AO Week2:

https://fhict.instructure.com/courses/12690/assignments/209608?module_item_id=848551

AO Week3:

https://fhict.instructure.com/courses/12690/assignments/209609?module_item_id=848552

For S&NO I created an AWS-environment with a VPC and multiple subnets. I created a few ec2-instances. I created users and groups in IAM and gave them permissions based on their group function.

S&NO Week2:

https://fhict.instructure.com/courses/12690/assignments/209592?module_item_id=848567

S&NO Week3:

https://fhict.instructure.com/courses/12690/assignments/209593?module_item_id=848568

2.2.2 Reflection

I think that what I have done until now for those learning outcomes is still not enough to master it. I still must work hard to master those learning outcome. To do that I will work harder within my study-case group and make some orchestration-taskes to achieve this goal.

2.3 Automation

- **About:** You are able to develop the code to install, manage, and configure systems and networks.
- **Explanation:** The right tools that support the installation, configuration and deployment of application requires code in the form of scripts or playbooks for execution

For this learning outcome I give myself **Orienting** for the following reasons:

I have did some exercises on Security & Network Orchestration and on Automation & Orchestration. But I still think and feel that it is not good. I must work more to understand Automation.

2.3.1 Action taken

For this learning outcome I created some exercises to show some what I did for the learning outcome.

For Automation I created an ansible control node and have run some playbooks to install some stuff on the controlled nodes:

AO Week2:

https://fhict.instructure.com/courses/12690/assignments/209608?module_item_id=848551

AO Week3:

https://fhict.instructure.com/courses/12690/assignments/209609?module_item_id=848552

For S&NO I created an AWS-environment with a VPC and multiple subnets. I created a few ec2-instances. I created users and groups in IAM and gave them permissions based on their group function.

S&NO Week2:

https://fhict.instructure.com/courses/12690/assignments/209592?module_item_id=848567

S&NO Week3:

https://fhict.instructure.com/courses/12690/assignments/209593?module_item_id=848568

2.3.2 Reflection

I think that what I have done until now for those learning outcomes is still not enough to master it. I still must work hard to master those learning outcome. To do that I will work harder within my study-case group and make some Automation-taskes to achieve this goal.

2.4 Security

- **About:** You have demonstrated, using tools, that you are able to monitor an infrastructure on vulnerabilities.
- **Explanation:** To secure an infrastructure, all logging of the hosts and network equipment must be collected, normalized, correlated and analysed to alert the security operator of the presence of vulnerabilities in the infrastructure.

For this learning outcome I give myself **Orienting** for the following reasons:

I have did some exercises on Security. But I still think and feel that it is not good. I must work more for Security.

2.4.1 Action taken

For this learning outcome I created some exercises to show some what I did for the learning outcome.

For S&NO I created an AWS-environment with a VPC and multiple subnets. I created a few ec2-instances. I created users and groups in IAM and gave them permissions based on their group function.

S&NO Week2:

https://fhict.instructure.com/courses/12690/assignments/209592?module_item_id=848567

S&NO Week3:

https://fhict.instructure.com/courses/12690/assignments/209593?module_item_id=848568

2.4.2 Reflection

I think that what I have done until now for those learning outcomes is still not enough to master it. I still must work hard to master those learning outcome. To do that I will work harder within my study-case group and make some Security-taskes to achieve this goal.

2.5 Supporting services

- **About:** You are able to organize the (automated) processes in such a way as to create support services.
- **Explanation:** The support service includes an automated workflow that can transcend multiple departments.

☹

2.6 Monitoring

- **About:** You collect and interpret relevant data with the aim of forming a judgment and making proper considerations for the infrastructure.
- **Explanation:** To keep the infrastructure up and running, all critical hosts and network devices must be monitored on performance, availability and response.

For this learning outcome I give myself **Orienting** for the following reasons:

I have did some exercises on Monitoring. But I still think and feel that it is not good. I must work more for Monitoring.

2.6.1 Action taken

For this learning outcome I created some exercises to show some what I did for the learning outcome.

For Monitoring I did some exercises, here you can see it:

Monitoring Week2:

https://fhict.instructure.com/courses/12690/assignments/209617?module_item_id=848583

Monitoring Week3:

https://fhict.instructure.com/courses/12690/assignments/209582?module_item_id=848584

2.6.2 Reflection

I think that what I have done until now for those learning outcomes is still not enough to master it. I still must work hard to master those learning outcome. To do that I will work harder within my study-case group and make some Monitoring-taskes to achieve this goal.