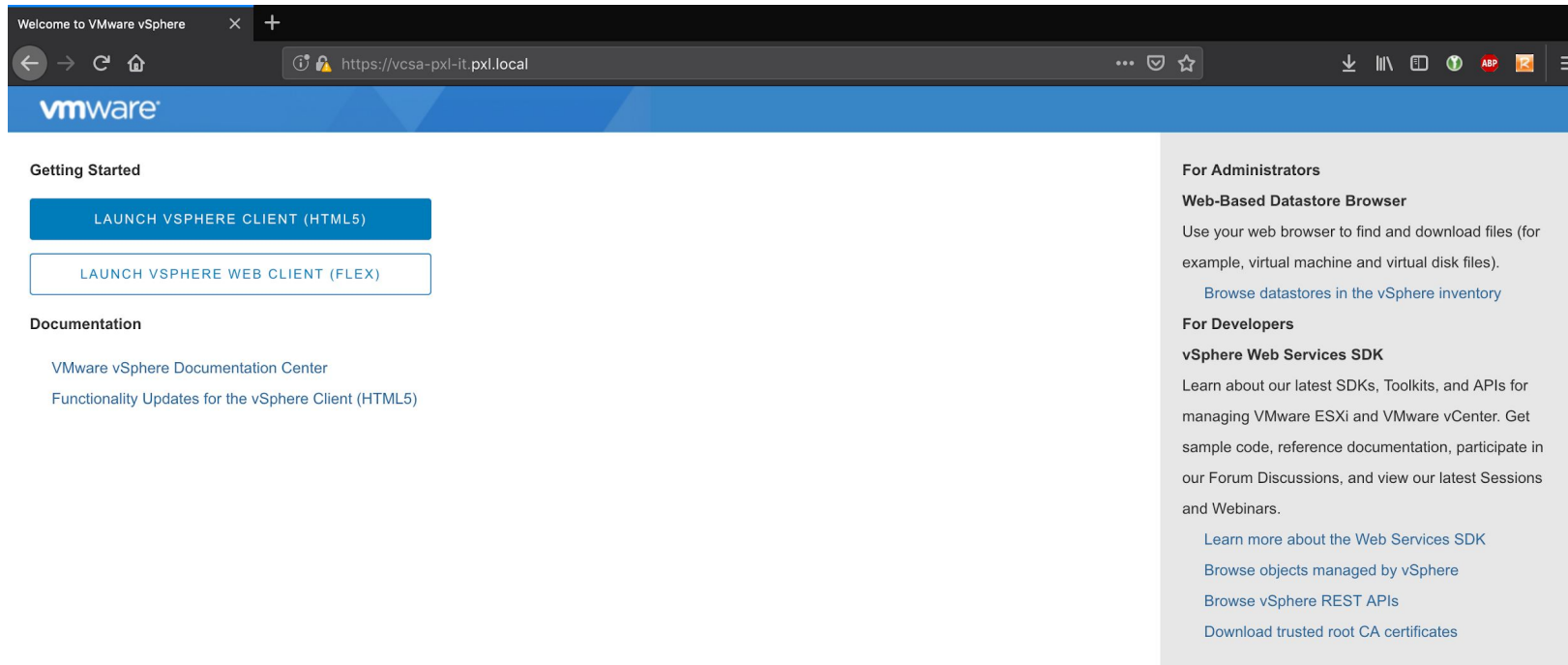


IaaS VMware Cluster

IT-Project 2018 - 2019



URL: <https://vcsa-pxl-it.pxl.local> (Only on PXL Network)

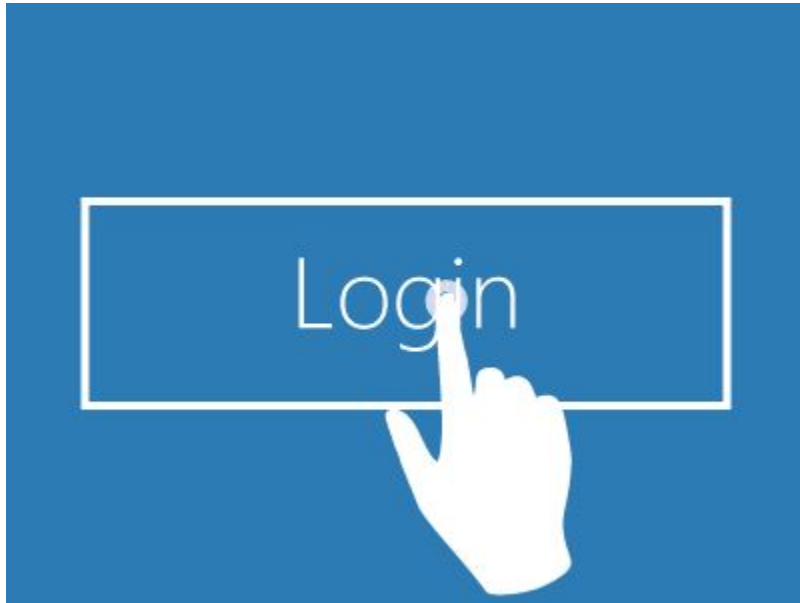


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[INFO]

Work from remote? Use the PXL VPN!

Login



- One per group
- Shared 1e week of the project
(Including network ranges)
- Change password! (Regularly)
- Resources:
 - 10 Ghz (Minimum)
 - 50 GB RAM
 - 500 GB SSD Storage
- No backups!!! (Your responsibility!)

Access to only 1 compute Node (There are 3.)

vm vSphere Client

Menu

Search in all environments

Refresh

Help

dupont@vsphere.local

Logout

vcsla-pxl-it.pxl.local

PXL-IT

compute1.pxl.local

Project compute1

compute2.pxl.local

compute3.pxl.local

Project compute1

ACTIONS

Summary

Monitor

Configure

Permissions

Resource Pools

VMs

Issues and Alarms

All Issues

Triggered Alarms

Performance

Overview

Advanced

Tasks and Events

Tasks

Events

Resource Allocation

CPU

Memory

Storage

Utilization

Issue	Type	Trigger Time	Status
No items to display			

Recent Tasks

Alarms

Task Name	Target	Status	Initiator	Queued For	Start Time	Completion Time	Server
-----------	--------	--------	-----------	------------	------------	-----------------	--------

All

More Tasks

READ ONLY Storage: 3 datastores with ISOs, ...

The screenshot shows the vSphere Client interface for the PXL-IT environment. The left sidebar displays a tree view of the environment, including the PXL-IT folder and its sub-items: Local compute datastores (datastore_compute1, datastore_compute2, datastore_compute3) and Project (ProjectSSD). The main content area shows the Summary tab for PXL-IT, which includes a summary of resources (Hosts: 3, Virtual Machines: 0, Clusters: 0, Networks: 5, Datastores: 4) and a table of custom attributes and tags.

Summary

Resource	Used	Capacity
CPU	320 MHz	239.4 GHz
Memory	12.33 GB	1.12 TB
Storage	53.28 GB	2.92 TB

Custom Attributes

Attribute	Value
-----------	-------

Tags

Assigned Tag	Category	Description
--------------	----------	-------------

Recent Tasks

Task Name	Target	Status	Initiator	Queued For	Start Time	Completion Time	Server
-----------	--------	--------	-----------	------------	------------	-----------------	--------

READ & WRITE Storage: Your own Project SSD

The screenshot displays the vSphere Client interface for the PXL-IT environment. The left sidebar shows a tree view with the following structure:

- vcasa-pxl-it.pxl.local
 - PXL-IT
 - Local compute datastores
 - datastore_compute1
 - datastore_compute2
 - datastore_compute3
 - Project
 - ProjectSSD

The main content area shows the PXL-IT Summary page with the following resource usage:

Resource	Used	Free	Capacity
CPU	320 MHz	239.08 GHz	239.4 GHz
Memory	12.33 GB	1.11 TB	1.12 TB
Storage	53.28 GB	2.87 TB	2.92 TB

Below the summary are sections for Custom Attributes and Tags. The Custom Attributes section has a table with columns for Attribute and Value. The Tags section has a table with columns for Assigned Tag, Category, and Description.

At the bottom, the Recent Tasks section is visible, showing a table with columns for Task Name, Target, Status, Initiator, Queued For, Start Time, Completion Time, and Server. The table is currently empty.

Networking: 1 routable, 4 non-routable

The screenshot displays the vSphere Client web interface. The left sidebar shows a tree view with the following structure:

- vcasa-pxl-it.pxl.local
 - PXL-IT
 - Project
 - Project Network 1
 - Project Network 2
 - Project Network 3
 - Project Network 4
 - Project Routable Network**

The main content area is titled "Project Routable Network" and includes an "ACTIONS" dropdown. Below the title are tabs for "Summary", "Monitor", "Permissions", "Hosts", and "VMs". The "Summary" tab is active, showing a globe icon and the following statistics:

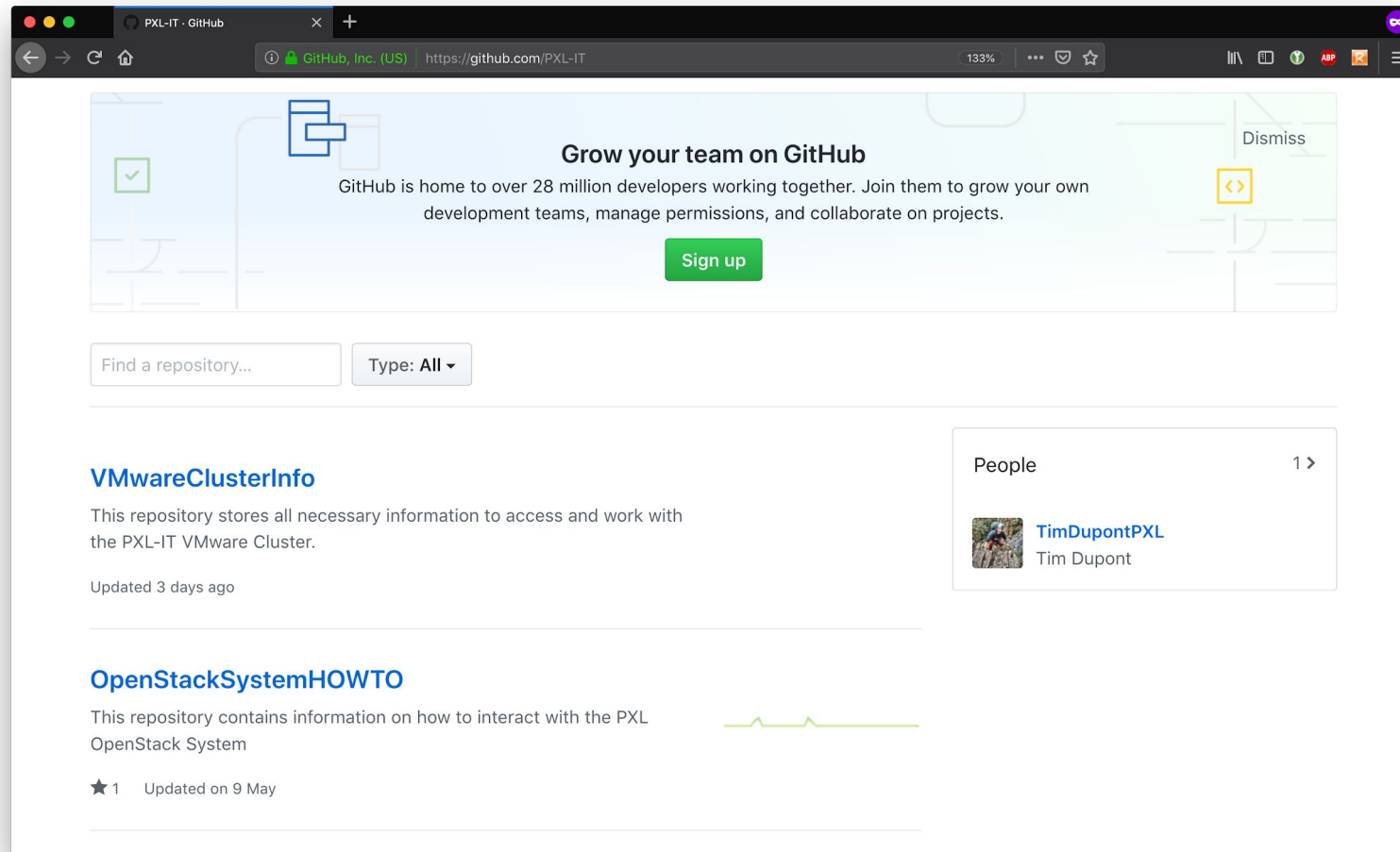
- Accessible: Yes
- Virtual machines: 0
- Hosts: 1

Below the statistics are two expandable sections: "Custom Attributes" and "Tags".

At the bottom of the interface is a "Recent Tasks" section with a table. The table has the following columns: Task Name, Target, Status, Initiator, Queued For, Start Time, Completion Time, and Server. The table is currently empty.

At the bottom left, there is a filter dropdown set to "All". At the bottom right, there is a link labeled "More Tasks".

Information: github.com/PXL-IT/VMwareClusterInfo



IT-Project DevOps assignment: BlackBoard

SNB - Taak 1 DevOps.pdf (page 1 of 7)

IT-PROJECT 2018 - 2019: taakomschrijving

AFSTUDEERRICHTING	SNB
TAAKNR + TAAKNAAM	TAAK 1 DevOps
WEGING (%) VAN DE TAAK	15%

Algemene taakomschrijving:

De DevOps groepstaak geeft een volledig overzicht van de DevOps opstelling, zoals weergegeven in de figuur hieronder. **Lees die groepstaak eerst.**

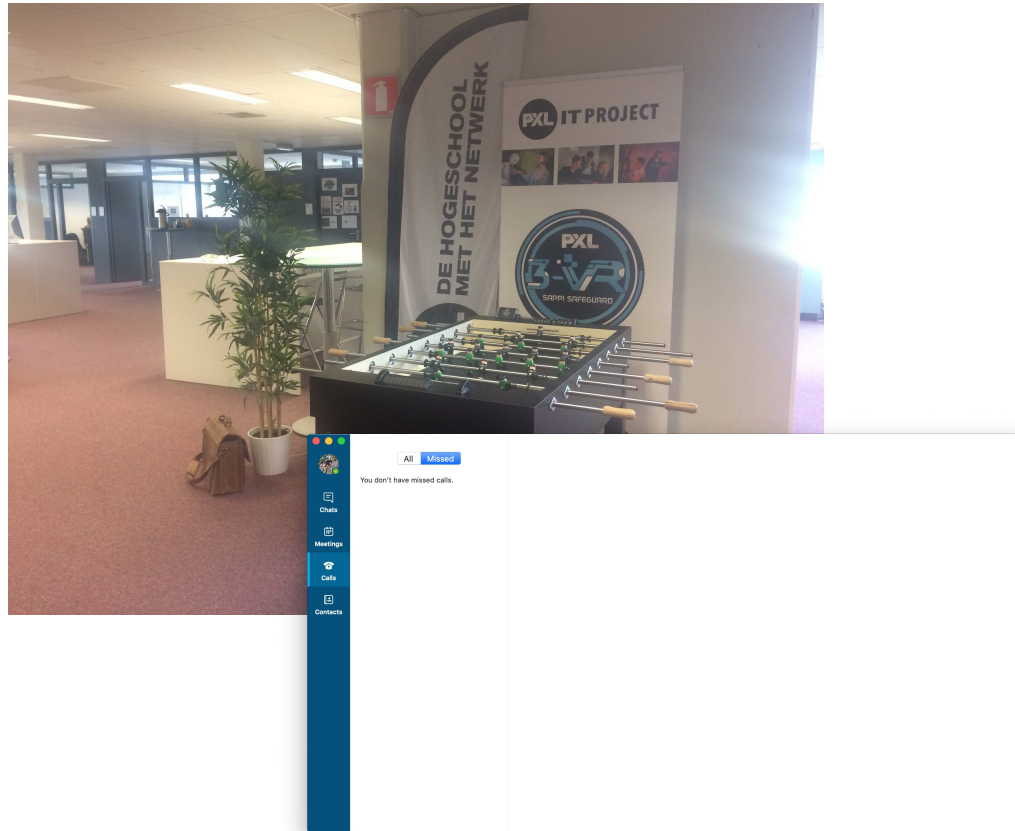
Dit document is de SNB specifieke taak waarin de pipeline (geautomatiseerd) opgezet wordt. Vervolgens moet dit systeem volledig onderhouden worden gedurende het verloop van het project. Dit omvat ook het terug rektrekken na problemen. Hierdoor maken back-ups ook een belangrijk deel uit van deze taak.

```
graph LR; Git[git] --> Build[Build]; Build --> QA[Quality Assurance QA]; Build --> PM[Production]; Build --> BRM[Binary Repository Manager]; BRM --> QA; BRM --> PM; QA --> PM;
```

Figuur 1: De minimale pipeline.

Bovenstaande figuur geeft een high-level overzicht van de minimale pipeline. Deze bestaat uit een combinatie van verschillende systemen. Ten eerste een versiebeheersysteem waarop zowel de code als test (DB-)data komen te staan. Een automatisatie server voor het automatisch analyseren, bouwen en opleveren/deployen van het softwareproduct is de tweede server en wellicht het grootste component in de keten. Daaraan gekoppeld is er de Binary Repository Manager waar builds worden bijgehouden. Tot slot wordt er zowel een QA als een Production systeem verwacht. De verschillende minimale vereisten als ook mogelijke uitbreidingen worden hieronder beschreven.

Evaluations: Meeting every other week



- Every other week: +/- 10 min
- IRL or via Skype for Business
- What? Current progress
(MAD SAD GLAD)
- Starting the second week
- Schedule is will be online
- Questions: IRL or via Skype
- More meeting time needed?
→ Just ask

The schedule will be shared during the second week.

Questions?

Contact Tim

(IRL | Skype for Business)