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| **DEVOPS PORTFOLIO: RESEARCH** |

***Topics****4.1 Python, configuration, unittesting  
4.2 API, Rest API's  
4.3 Repository's (git)  
4.4 Virtualization (VM)  
4.5 Microservices & Containers (docker)  
4.6 Managing  Microservices & Containers (Kubernetes)  
4.7 CI/CD Pipelines (jenkins)  
4.8 Configuration Management (netmiko, ansible)  
4.9 Cloud Management (terraform)  
4.10 Data models for system management (YANG)*4.11 Informatiebronnen (APA-style)

Docker 🡪 docker history

Wat is er allemaal op docker? Vooral de databases (mariadb, casandra, neo4j, mysql, mongo,.. Databases voor transacties, timestamp) en devops tools (JENKINS! Maar ook maven, gitlab,..) <https://hub.docker.com/search?type=image&category=database>

<https://hub.docker.com/search?type=image&category=tools>

Opzoeken:

* chatops
* image: alles wat ik nodig heb om een applicatie te kunnen runnen
* webhooks, polling
* plugins
* kubernetes, bash,…
* owasp
* immutability (alles wordt onderhandelt
* idempotency: idempotent software produces the same…
* blue/green deployments
* video over …Ansible
* gathering facts
* vragen over NSO examen!!!
* Restconf
* List of leaf? Goed weten, voor ip adressen bv is het altijd list

TOOLS TE OEFENEN EN OPZOEKEN:

Jenkins (git, docker microservices), ansible (os en services), restconf (yang en json)

Links:

Tier 1: <https://www.google.com/search?q=is+google+tier+1+internet+exchange&sxsrf=AOaemvJ1F71rbT_wb_rtMScApOnnTz41Pg%3A1632727188913&ei=lHBRYd-XN8vEkwWgyoMo&oq=is+google+tier+1+internet+exchange&gs_lcp=Cgdnd3Mtd2l6EAM6BwgAEEcQsANKBAhBGABQ3h9Y1ihgjyxoAnACeACAAUaIAXqSAQEymAEAoAEByAEIwAEB&sclient=gws-wiz&ved=0ahUKEwjfsfDgzp7zAhVL4qQKHSDlAAUQ4dUDCA8&uact=5>

Terraform: <https://www.google.com/search?q=terraform&oq=teraform&aqs=chrome.2.69i57j0i10l9.6434j0j7&sourceid=chrome&ie=UTF-8>

Ansible:

<https://www.google.com/search?q=ansible&oq=ansible&aqs=chrome..69i57j0i512l9.8012j0j7&sourceid=chrome&ie=UTF-8>

Chatops:

<https://www.google.com/search?q=chatops&oq=chatops&aqs=chrome..69i57j0i512l7j0i30l2.3155j0j7&sourceid=chrome&ie=UTF-8>

Apt-get update:

<https://www.google.com/search?q=apt-get+update&oq=apt-get+&aqs=chrome.1.69i57j0i512l9.5581j0j7&sourceid=chrome&ie=UTF-8>

Python:

<https://www.google.com/search?q=lint+python&oq=lint+py&aqs=chrome.1.69i57j0i512j0i22i30l2j0i10i22i30j0i22i30j0i10i22i30j0i22i30j0i10i22i30j0i22i30.4891j1j7&sourceid=chrome&ie=UTF-8>

Cheat sheet commands:

<https://www.guru99.com/linux-commands-cheat-sheet.html>