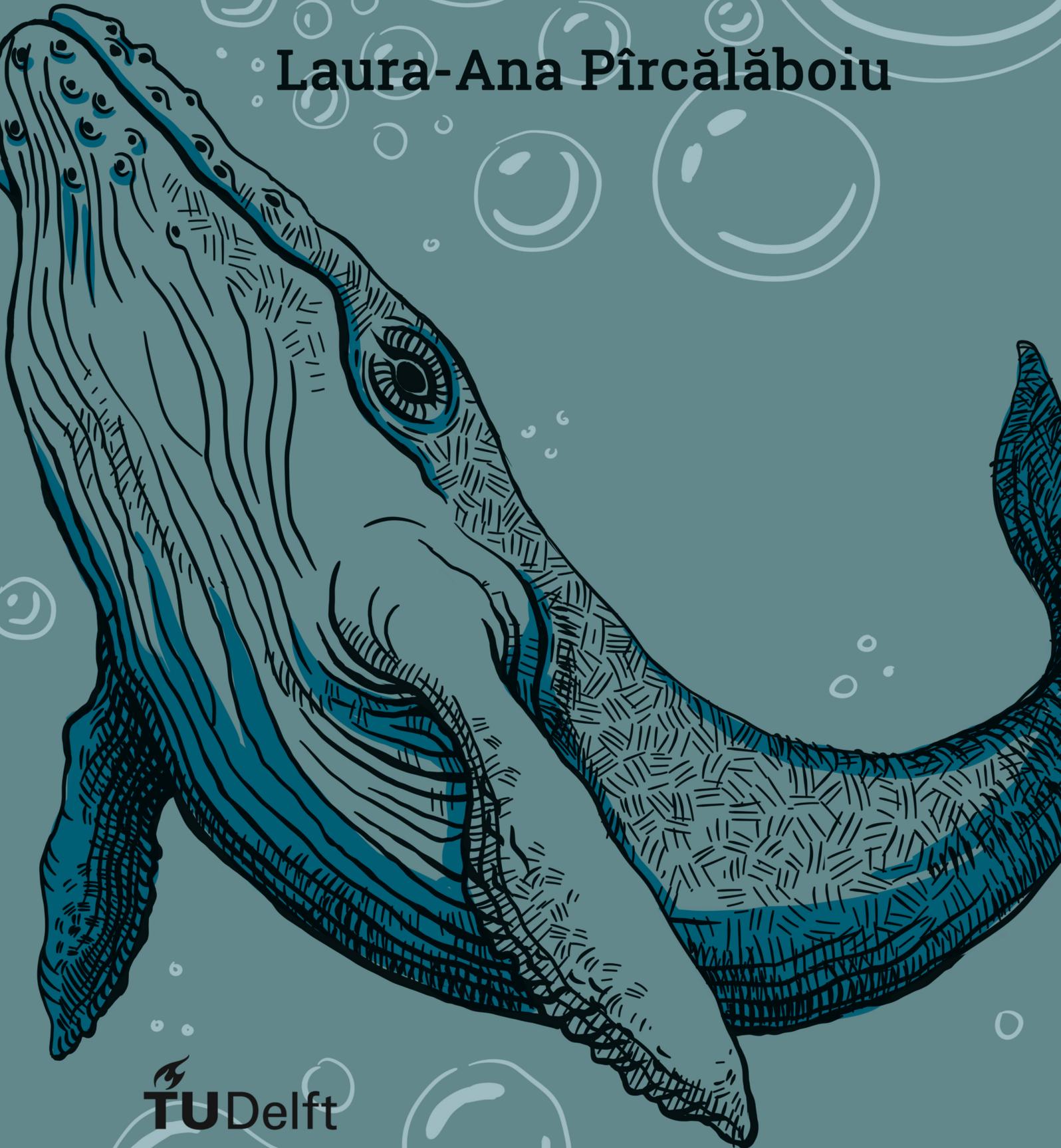


# Call me Ishmael

Using Dynamic Analysis to Hunt  
Whales on the Internet

Laura-Ana Pîrcălăboiu



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by

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eveld

# Preface and Acknowledgements

When I was a child I thought PhDs were a fact of life - that everyone, at some age or the other, went through university and got those shiny letters - *Dr. Ing.* - tacked onto their names, like my mom and dad. I realize now the exclusivity that comes with that title - the fact that it's reserved only for the most hardworking, curious, dedicated, and rigorous people. I'd like to thank them for raising me with those exact values in mind, and extend the hope that I can be half the scientist, engineer, and person they are. This thesis, and my entire life until now would have been impossible without your never-ending love and support.

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*Laura-Ana Pîrcălăboiu*  
*Delft, August 2023*

# Summary

Docker has been one of the most widely used DevOps tools in the last decade, enabling fast development of personalized services. Indeed, the common practice is to reuse already available containers and customize them based on the developer's needs. DockerHub is the leading platform for uploading and downloading Docker containers. Unfortunately, reusing code and infrastructure exposes developers to security and privacy threats, as the original developer might have had malicious intent to collect sensitive data or create backdoors in a victim's system. The existing literature has raised concerns about this security and privacy threats, and performed a mass vulnerability scans of Docker images. However, currently existing studies are mostly based on static analysis, which has been proved to be insufficient for a complete security assessment.

In this thesis we present a novel framework for the en-masse identification of vulnerabilities in Docker Containers. Additionally, as part of the framework, we document and implement a component which sorts and downloads images based on their popularity, which improves on the current fuzzy-search based state-of-the-art. Using this framework we found vulnerabilities in 2.44% of the containers we scanned. The framework also succeeded in finding novel vulnerabilities, resulting in two new reserved CVE numbers in the social network software Friendica.

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# 1

## Introduction

This chapter provides an introduction to the thesis. In Section 1.1 we will discuss the growing relevance of Docker and its ecosystem. In Section 1.2 we will go over the subject of the thesis more precisely and outline some research goals for the rest of the work. Finally, in Section 1.3 we will discuss the structure of the rest of the thesis.

### 1.1. Background and Relevance

Docker is a platform for application containerization that is increasingly beloved by the development world. Since its development in 2013, it has been used by companies and hobbyists alike to develop, deploy, and ship applications seamlessly. Its logo, a friendly whale, has become almost synonymous with reproducible software and the end of the famous programmer maxim, *“It works on my machine”*.

Docker has been growing in popularity since its creation. According to the Docker Index [1], 2021 has shown increased adoption in the ranks of developers. According to this index, the biggest platform for storing and distributing Docker images, Docker Hub has had 310 billion pulls in 2021, spread over 8.3 million repositories by 7.3 million users.

Docker’s popularity, however, attracts all sorts of malicious actors. For instance, in June 2018, a report was published that found that seventeen malicious Docker images had made cryptojackers \$90,000 in 30 days [2]. To some extent, for an average end user, there is no more reason to trust a Docker image than there is to trust any other piece of code on the internet. Therefore, it is important that we carefully analyze the security risks of running Docker containers and minimize the malicious containers that are out in the wild. Docker has been trying to contribute to this goal by recently developing Docker Scout[3], a tool which is currently in Early Access.

## 1.2. Subject and Objectives

In this thesis, we aim to survey the state of Docker security on the internet. To this end, we conduct a study of Docker images on Docker Hub, the world's largest free to use repository for Docker images. Importantly, we employ novel techniques for the mass analysis of Docker images, namely dynamic analysis as opposed to the current state of the art, which is primarily static analysis.

To better clarify the research questions, in this paragraph we will introduce the core concepts that the thesis is concerned with. **Static Analysis** is a set of techniques used in debugging that involve analyzing the source code of a program or system, and is also known as white-box testings. **Dynamic Analysis**, on the other hand, focuses on analyzing a program's actual running behavior without knowing anything about the source code (also known as black-box testing). In this thesis, we aim to answer the following research questions:

**RQ1:** How applicable and useful is dynamic analysis for finding vulnerabilities in Docker containers?

**RQ2:** How does static analysis compare to dynamic analysis for finding vulnerabilities in Docker containers?

To answer these questions, we created an automated pipeline that aggregates and downloads popular Docker images, runs them in a controlled environment and scans them for vulnerabilities using dynamic analysis. The framework for image aggregation and the results on the utility of dynamic analysis are the main contributions of this thesis. We also compare the efficacy of dynamic analysis to that of static analysis.

## 1.3. Structure

The rest of the thesis is structured as follows. In Chapter 2 we go over the existing literature in the field of Docker vulnerability analysis. In Chapter 3 we take a deep dive into Docker's ecosystem and architecture, which will help with understanding Chapter 4 and Chapter 5. The latter two sections talk about the motivating scenarios and the experimental framework we use for this thesis. In Chapter 6 we present the results we obtained from our study. In Chapter 7 and Chapter 8 we conclude our thesis and discuss future improvements that can be made to our work.

# 2

## Literature Review

In this chapter, we present the existing literature in the field of automated vulnerability detection of Docker images. In particular, in Section 2.1 we talk about the paper that inspired this master's thesis, and how it affected the design decisions we made. In Section 2.2 we explore a couple of papers that use static analysis to discover vulnerabilities in web services, and more specifically, Docker containers. In Section 2.3 we discuss dynamic analysis as a solution for automatically finding vulnerabilities, and how much it has been applied until now. In Section 2.4 we investigate the state-of-the-art in mass scanning of Docker images and how it has been done so far in the literature, as that is also a focal point of our research. At the end, in Section 2.5 we formulate the knowledge gaps that we found in the literature.

### 2.1. Motivating Paper

The paper that sparked the idea for this thesis was called *AmazonIA: When Elasticity Snaps Back* [4]. The paper talks about automatically scanning Amazon Machine Images<sup>1</sup> for Personally Identifying Information (PII), focusing on the Elastic Compute Cloud (EC2). In the paper, the authors set up a scanning pipeline which automatically pulls and instantiates Amazon Machine Images, starting with the most popular. These are statically scanned for public and private keys, personal information, `.git` directories containing proprietary code, amongst other things.

The parts that heavily influenced this thesis were mostly related to the mass scanning of images. Even if we are using Docker, the actual process is different, but the pipeline stays conceptually the same (and can even be parallelized, which is something the authors also demonstrate in their paper).

---

<sup>1</sup>Amazon Machine Images, or AMIs, are similar in purpose to Docker Images in that they provide developers with a means of quickly developing and deploying isolated applications.

The results that they find are very interesting: 46% of images they scanned have SSH backdoors in the US-East-1 area, and 16% do in the EU-West-1 area. They were also able to retrieve a lot of information about the publishers of the images, AWS API keys, SSH private keys, etcetera. Another problem they identified is that in the Japan region, 23% of AMIs have non-unique private/public SSH key pairs.

Since its release, the paper has led to the publication of guidelines about AMI security instantiated by Amazon, as well as better scanning tools for the detection of PII or other security threats in the open.

The study was very interesting to us, albeit a bit dated, as it was published in 2011. It motivated us to see if the issue of automatically finding vulnerabilities and private information on the cloud is still relevant today. To make the study more relevant and current, we decided to use Docker containers instead of Amazon AMIs, as those are more widely in use today<sup>2</sup>.

## 2.2. Static Analysis of Docker Images

The bulk of the research in the field of automated vulnerability discovery in Docker containers (as well as the starting point of our literature review) was static analysis [5], [6], [7]. Static analysis is the analysis of computer programs without actually running them [8]. The term static analysis usually refers to analysis that is being done by an automated tool, as opposed to a human (in that case, it is called *code comprehension* [9]).

In the field of Docker container automated vulnerability analysis, several studies have been carried out that investigate static analysis' applicability. The first of which is "A Study of Security Vulnerabilities on Docker Hub" [5]. In this paper published at CODASPY in 2017, the authors create a framework for applying static analysis to images on Docker Hub called DIVA (Docker Image Vulnerability Analysis). As a static analysis tool, they use Clair [10].

Clair is an application for parsing image contents and reporting vulnerabilities relating to said contents. Internally, it uses something called an *indexer*, which is responsible for finding out details about the container such as what packages exist in the image, what distribution the image is derived from, and what package repositories are used within the image. This information, once compiled, persists in an IndexReport. These IndexReports are then re-used between layers and even between images to increase the efficiency of the scanning.

The authors of the paper perform a study scanning 356,218 images, which they retrieve from Docker Hub using an approach similar to a study of vulnerable applications on Google Play (keyboard fuzzing, which we will talk more about in [11]). The authors find that the average image on Docker Hub, regardless of its labels (official or community) has around 180 vulnerabilities.

Another article we found interesting in our review of the state of the art was published in ESORICS 2020, and is named "Understanding the Security Risks of Docker Hub" [6], where

---

<sup>2</sup>Amazon AMIs can only be run on Amazon infrastructure, while Docker Images can be run on any machine, which contributes to their popularity

they collect images off of Docker Hub again, and use Anchore [12]. Anchore is another container analysis tool. It differs from Clair and other static analysis tools mostly in the fact that it is a container certification and inspection platform rather than a scanning tool.

What is interesting about their study is that they try to prune the number of dependencies that they scan in each Docker container (to make everything more efficient). In total, from their study of 2,227,244 images, they find 334 CVEs (Common Vulnerabilities and Exposures), which on average take about 180 days to fix. Additionally, they uncover 42 malicious images that exhibit suspicious behavior according to the virus scanner they employ (VirusTotal API). They also try to leverage some dynamic analysis techniques, but we will talk more about that in Section 2.3.

To conclude with, there are two more works that are interesting in the same vein. The first one is called ZeroDVS[13], and what it does very interestingly is that it looks in depth at vulnerability propagation in time. Since Docker images can be based off of other, older Docker images, it makes sense to investigate whether vulnerabilities get “inherited”. The final work which we would like to briefly mention is “Vulnerability Analysis of 2500 images” [7], which follows a similar principle as all the other works in this section but provides nice visualizations of its results, broken down by image category on DockerHub.

## 2.3. Dynamic Analysis of Docker Images

These are scary numbers - static analysis paints a dire picture of the vulnerabilities present in the Docker containers on Docker Hub. We thought that, perhaps, looking at other types of analysis is useful in determining whether this picture is accurate or not. This is when we started investigating Dynamic Analysis, a technique that involves interrogating a system while running, not merely scanning its files.

As opposed to static analysis, where we generally have access to the source code and Dockerfiles of the Docker container, we do not know much about the container when applying dynamic analysis to it (black-box testing). This turned out to be a far less researched area of study, the main reason given for this being that dynamic analysis takes a lot of time (comparatively to static analysis), which makes it infeasible to conduct large scale analyses on platforms like DockerHub. That being said, there are still several works we would like to discuss under Dynamic Analysis.

The first of them is, again, “Understanding the Security Risks of Docker Hub” which we talked about in Section 2.2. In the paper, the authors also use the virus scanner VirusTotal to check the Docker images for suspicious executables. Afterwards, they run these suspicious executables and check them for malicious behavior. This is an interesting starting point, but they still do not dynamically analyze the behavior of the whole image.

Another paper that briefly touches dynamic analysis is “A Framework for Securing Docker Images”. They talk a lot about using Anchore for static analysis, and discuss using dynamic analysis tools to gauge the vulnerability level of four Docker images. In the paper, it is some-

**Table 2.1:** Summary of the Literature Study.

Name of Paper	Authors	About Docker	DAST <sup>3</sup>	Mass Analysis	PII <sup>4</sup>
A Study of Security Vulnerabilities on Docker Hub	Shu et al.	✓		✓	
AmazonIA: When Elasticity Snaps Back	Bugiel et al.			✓	✓
Vulnerability Analysis of 2500 Docker Hub Images	Wist et al.	✓		✓	
Docker Container Security in Cloud Computing	Brady et al.	✓	✓		
This Thesis	us	✓	✓	✓	?

what muddy what they mean by dynamic analysis and what kind of tools they applied except for Anchore [14].

At this point, we realized we should be moving towards emulating the more realistic scenario of an attacker breaking into a container and then using it to take control of the host. To that end, we found Vranken’s work very useful [15]. The author identifies the weak points in a Docker container and tries to find tools to automate Docker penetration testing, coming to the unfortunate conclusion that there is no one silver bullet, no real tool that fulfills all requirements. Out of these, ‘Break out of the Box’ and Metasploit (possibly automated using something like Armitage) seem to be the most interesting.

## 2.4. Mass Analysis of Docker Images

We were also interested in how to search for images on DockerHub, how to aggregate them and how to apply promising tools we chose on them. To this end, we found “A Study of Vulnerabilities in Docker Hub” [5] to be helpful again. We drew inspiration from its data collection framework (which we eventually moved away from, but it was an important learning step), which in turn was inspired by “A Measurement Study of Google Play” [11].

Many of the papers mentioned in Section 2.2 already do some amount of data aggregation, but we were interested in applying all of those techniques to dynamic analysis.

## 2.5. Knowledge Gap

As far as we could find, there are few to no studies exploring the utility and applicability of dynamic analysis on Docker containers, with the end goal of vulnerability discovery. We decided to try to explore this niche. An overview of the literature study can be found in Table 2.1. For the summary, we decided to pick a subset of representative works which illustrate the knowledge gap.

---

<sup>3</sup>Dynamic Application Security Testing

<sup>4</sup>Personal Identifying Information

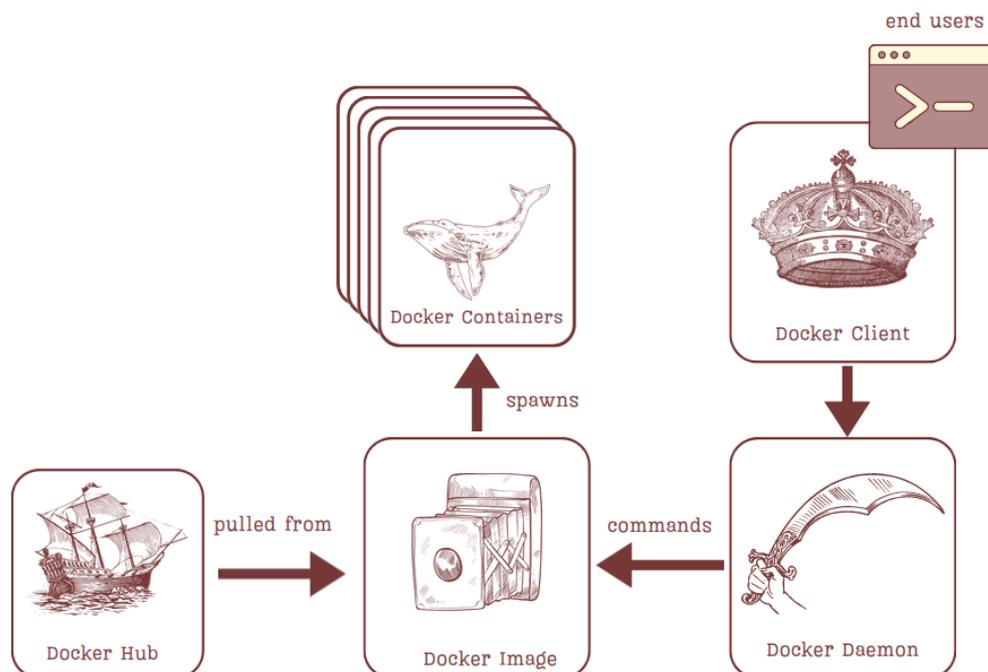
# 3

## The Docker Ecosystem

In this chapter, we will go into detail on some concepts on Docker that will prove useful in understanding the rest of the thesis, most specifically, the threat model. The contents of this chapter can be skipped if the reader is very familiar with Docker. In Section 3.1, we will briefly discuss the history of Docker containers and how they build on other existing containerization technologies, namely LXC. In Section 3.2, we will go over the benefits of using Docker containers in order to better understand why they are so widely used. In Section 3.4, we will talk about what exactly it is that happens on a Docker host machine to ensure that Docker containers can run successfully: these parts include Service Discovery, Networking, Scheduling and Orchestration. In the final part of this chapter, Section 3.5, we will introduce one of the core concepts of our work, namely, Registries, and more specifically, DockerHub as a means for container management. An overview of the Docker Ecosystem can be found in Figure 3.1.

### 3.1. Historical Note

A lot of the concepts Docker is built upon are nothing new. Docker's main contribution to the developer ecosystem is that of simplifying and abstracting over existing technologies, and with that improving developer experience. For example, at its launch in 2013, Docker's approach to containerization relied heavily on LXC, the Linux container runtime [16]. Its goal was never to introduce novel concepts, but to provide accessible interfaces to containerization. Docker has since moved on to implementing some of its own components, for example, replacing LXC with their own `libcontainer`, written in Go [17]. On top of all the userspace utilities it builds upon, Docker also provides a lot of other higher level services to its users: tooling, versioning, automatable builds.



**Figure 3.1:** Architecture of the Docker Ecosystem.

## 3.2. Why Containerization?

Containerization is a way of distributing software and applications in a reproducible, distributed and scalable manner [18]. This is accomplished by packaging applications (and their dependencies) in neat, isolated little boxes called containers. Docker containers are exactly that, a particularly lightweight type even. This is achieved by *not* virtualizing an entire Operating System, but abstracting over the host's kernel, which we will go more into detail on that in Section 3.4.2. Another reason why developers like containerization is its portability: once an application and its dependencies are neatly packaged in containers, they can run anywhere, and be shared between any parties - partly also because of the abstraction over the kernel level that we briefly mentioned. The last main advantage oft mentioned by Docker is their containers' great predictability: the container does not care what kind of hardware it runs on, and the host, to a large extent, does not necessarily care what is inside of the container. This makes for very standardized interfaces that generate very predictable interactions. There are many other reasons why people and companies choose for Docker containers in their development process, but they tend to boil down to one of these main ones.

## 3.3. Container vs. Image

In this thesis, we often talk about *Docker images* as well as *Docker containers*. We felt it was important to clarify the difference between the two, as they cannot exactly be used interchangeably. Additionally, while we use the term Docker image or Docker container, this

distinction also applies to anything under OCI<sup>1</sup>.

A Docker image is a read-only template that encapsulates the necessary components for creating a running container [19]. It is a standalone file that can be reused to generate multiple instances of the same software [20]. Generally, it is created from a base OS image (for example, Alpine Linux), and has dependencies added on top in so-called *layers*. Images are stored in registries, which we will talk more about in Section 3.5.

A Docker container is a runtime instance of an image, independent of the rest of the system. You can create multiple containers from the same image, each with its own configuration and state.

## 3.4. What Goes On In My Docker Host?

In this section, we will discuss what exactly happens in a host on which Docker is installed, starting with a high level overview of the important software components (more specifically, we will do that in Section 3.4.1). We will talk about some of the building blocks and some important concepts of Docker (in Section 3.4.2). Afterward, we will go into describing some of these components in detail in Section 3.4.3, Section 3.4.4 and Section 3.4.5.

### 3.4.1. Architecture

A Docker container needs a Docker host to run. A Docker Host is nothing more than a computer that we, the developers, have installed the Docker daemon on. This is a suite of programs that do the heavy lifting of building, compiling the software for, packaging, and running Docker containers [21]. The Docker client is another utility a host needs, and it is simply the interface with which a user can interact with the Docker daemon. Oftentimes it is the Docker command line interface [22], but utilities such as Docker Desktop (which is a graphical user interface to the Docker daemon) are made available [23] for specific operating systems. These interfaces allow users to send commands, such as `docker run`, that the Docker daemon then executes. The Docker Daemon's main responsibility is interacting with Docker images, containers and services, more generally called objects (which are either created locally or pulled from remote repositories - more on that in Section 3.5). The images, when running, are called Docker Containers. They provide different services to either things running on the same machine or open ports to the greater internet. Docker images also have layers, which are essentially a way to keep track of changes made to an original (or base) image. Docker containers also need to know about each other, which is taken care of by the Service Discovery API and Globally Accessible Configurations Stores, which we will talk more about in Section 3.4.3. Sometimes, the spawning of Docker containers can be handled by a dedicated piece of software called an orchestrator, which we will also talk more about later.

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<sup>1</sup>Open Container Initiative - it is an open standard for container image formats and runtimes

### 3.4.2. Internals and Linux Primitives

In this section, we will take a closer look at how Docker containers work, under the hood, the Linux primitives they build on, and their main differences to virtualization. As mentioned earlier (in Section 3.1), Docker was, at least initially, built on top of a lot of other Linux primitives [24].

The first of these primitives is *Linux Namespaces*, which are a feature first introduced back in 2002. Namespaces provide isolation by presenting *different sets of resources to different running processes*. This is made clearer by looking at an example: if we inspect the running processes in a Docker container we will see a completely different set of PIDs<sup>2</sup> than on the host, and some of them might even coincide. The same can be said, for example, about mount points - the host system limits what mount points can be seen by resources inside a running container. There are many other different kinds of namespaces that each isolate different kinds of resources - for example, net (networking), uts (hostname), ipc (inter-process-communication), and user.

While Namespaces are a nice first step in ensuring isolation between processes, they cannot guarantee processes have limited access to shared system resources, like the CPU, disk, memory, etc. [25]. This is where cgroups become useful. Engineers at Google started working on this feature back in 2006, under the name *process containers*, but soon changed it to the name *control groups* to not cause confusion with other Linux kernel features [26]. It is worth mentioning though, some tools (like applications written for older versions of Java, `top` and `free`) have a harder time dealing with cgroups - mostly because they were written before cgroups were even introduced. Additionally, an interesting fact is that both `top` and `free` work by checking the information on `/proc/meminfo`, which contains memory information about the host, even inside a Docker container.

Images are stored and instantiated with the help of another already existing utility called UnionFS. The guiding principle of UnionFS is that collections of different, but related, collections of files should be kept in different locations (but displayed to the user together) [27]. Docker uses it with a copy-on-write strategy, this is useful in creating layers - when changes are applied to a Docker image, a new layer is created on top of all the existing ones, which enables Docker to ship updates very efficiently. UnionFS then presents these layers to users together, hence the name. UnionFS is also used in managing containers, when a host is running more than one instance of a container (most of the filesystem is shared, but particulars are stored separately).

Docker wraps all of these utilities together in the so-called container format. As mentioned earlier, Docker used to use LXC as its container format in its early days, but has since moved on to `libcontainer`. The latter is written in Go, and provides a useful API for packaging, delivering, and running containers.

---

<sup>2</sup>Process Identifiers, unique numbers assigned to processes by the kernel (or OS).

### 3.4.3. Service Discovery

Another focal point of the Docker ecosystem is Service Discovery. The basic idea of it is that any running application should be able to identify details of its running environment programmatically, without human intervention. Generally, this is done by implementing a registry (a database) of details about the instances or services that are currently operating in an environment. How it works is that when an application comes online, it registers itself with the service discovery API. Depending on the type of service, it will need different details: for example, a MySQL database might register the port where the daemon is running, and perhaps some login credentials. Additionally, to ensure reliability and fault tolerance, these registries are often distributed on multiple hosts in the infrastructure.

In addition to storing information about the services that are running, service discovery APIs often also store configuration details about the host or infrastructure that services are running on (like, for example, the IP address of the host itself). These details are not important in a normal scenario where you are only running a number of Docker containers on a single host, but in the scenario of a distributed infrastructure they provide a location for management tools to find data about the cluster itself.

There are many tools for basic service discovery, including but not limited to etcd, consul, zookeeper. Expanding on these are projects like crypt, confd, vulcand, marathon, nerve and synapse, which also enable dynamic reconfiguration and other neat features [28].

### 3.4.4. Container Networking

Of course, containers knowing *about* each other is useful, but ideally we would like them to be able to communicate as well. Fortunately, Docker provides a lot of the fundamental utilities that are necessary for that.

When the Docker daemon is started, it will create a virtual bridge interface named `docker0` on the host system [29]. This allows Docker to allocate a virtual subnet that can be used by all the containers that are going to run on the host. When a new container gets created, it immediately gets assigned an address on that subnet using the `docker0` bridge. Docker also automatically configures `iptables` rules for forwarding traffic as well as NAT masquerading. The `docker0` bridge is also used as a method of redirecting traffic on the same host to its appropriate destination (i.e. Docker containers).

Docker containers communicate with the outside world by exposing ports (i.e. making the Docker daemon aware that the container is using a port internally). Exposed ports can be mapped to the host by either choosing a port manually or allowing Docker to allocate a high, unused, random port. This is called publishing a port.

Docker also used to have a feature for inter-container communication called `docker link` [30]. This has been since then deprecated in favor of using user-defined `bridge networks`.

### 3.4.5. Container Orchestration

When running many Docker containers that are all interconnected on different hosts, the ability to manage complex systems becomes very attractive. Container Orchestration is a broad term for abstracting away all the details of scheduling and managing of containers as well as provisioning of multiple hosts. Scheduling in this context does not necessarily only refer to time sensitive constraints, but also, more generally, to controlling a container's behavior based on some kind of input from an administrator. This is usually done by a program called a container orchestrator. Some common (but advanced and complicated) orchestrators are Kubernetes, Swarm, Nomad and OpenShift. There also exist some meant for individual developers, as opposed to for bigge teams, like `docker-compose`.

## 3.5. Docker Registries for Container Management

A company using Docker containers to deploy their products might want to publish them at some point. This is where external Docker Registries [31] come in: they are, in essence, repositories for the publishing and distributing of Docker images and their updates.

The Open Container Initiative provides tools for organizations who want to host their own registry, but the most simple to use solution is DockerHub. It is a free-to-use Docker registry which provides all sorts of additional features, like automated builds, organization accounts, and so forth.

Registries can be accessed through the Docker Registry API, which we will talk more about in Section 5.2.

# 4

## Motivating Scenarios

In security research, a threat model is a common first step. Threat modelling analyzes a system from the perspective of an attacker. Basing our research off of a threat model ensures that we can reason exactly about what kind of vulnerabilities we are looking for and what kind we are expecting to find. In this particular case the term *Threat Model* is kind of a misnomer, as we are not exactly discussing any mitigations for the vulnerabilities we find in the systems, but instead we discuss how dynamic analysis can help us find said classes of vulnerabilities. Nevertheless, we looked at two particular scenarios, both of them having the same components and setup. In this chapter we will roughly follow OWASP's<sup>1</sup> recommendations for systematic threat modelling: decomposing the application, determining and ranking threats, and determining countermeasures and mitigations [32]. Rather than discussing countermeasures and mitigations, we thought it would be more useful to discuss how dynamic analysis applies to finding and potentially exploiting these vulnerabilities.

### 4.1. Setup : Decomposing the Application

The setup we are concerned with for the purpose of this thesis is simple: an attacker is trying to gain control of a remote server that is running (one or multiple) containerized services. We assume already that the attacker knows either a URL or an IP address where the host can be reached, but no further knowledge about the system.

#### 4.1.1. Scenario One: Initial Access via Unsecured Container

The first scenario we are modelling is the one where the attacker gains control of the host by exploiting vulnerabilities in the Docker containers that are running on the machine. For example, one of the vulnerabilities in the OWASP top 10 [33]. After that, the attacker can break out of the container.

---

<sup>1</sup>OWASP is an organization that concerns itself with web application security

### 4.1.2. Scenario Two: Privilege Escalation via Unsecured Container

The second scenario we are threat modelling is the one where the attacker already has (user, but not root) access to the host machine, and uses the Docker (and possibly container orchestration) utilities. The end result of this is that arbitrary pieces of code or commands can be executed, and privileges escalated.

### 4.1.3. External Dependencies

External dependencies are items external to our Docker Container that might still pose a threat to the application. In this particular scenario, this is everything that the Docker container interacts with, both inside and outside the host machine. A more detailed breakdown of this can be found in Table 4.1.

**Table 4.1:** External dependencies in a Docker container.

ID	Name	Description
1	Remote services	Any remote services that the Docker container contacts at any point (e.g. VPN, DNS, ...)
2	Local Services	Any other local services that the Docker container contacts at any point (e.g. Databases...)
3	Kernel	All Docker containers running on the same Host machine share the same kernel.

### 4.1.4. Entry Points

Entry points are the points of the application an attacker is most likely to interact with at a first glance. In the case of a running Docker container, this is most likely any open port that the container is exposing to the internet. As Docker containers provide all sorts of services, it is difficult to make sweeping generalizations, but attackers would generally interact with exposed ports first.

## 4.2. Using Frameworks to Categorize and Rank Threats

In this section, we will discuss two frameworks that are used in literature to categorize and rank threats. In Section 4.2.1 we will discuss the STRIDE framework and its application to our attack scenario. In Section 4.2.2 we will talk about MITRE ATT&CK, a knowledge base which is based on real-world attacks, and its usefulness when defining focus points for our pipeline.

### 4.2.1. STRIDE

STRIDE is a framework for discovering and classifying vulnerabilities first developed at Microsoft by Praerit Garg and Loren Kohnfelder [34]. The threat model comprises six categories, which together create a mnemonic. Each category also represents a category of “things that can go wrong in a system.” Additionally, each category represents a violation of a desirable property in a system. It was originally detailed in a document called “The Threats to our Products.”

- Spoofing: threats that have to do with breaching authentication information from a certain

user or other entity. Spoofing is a violation of authenticity.

- Tampering: threats that have to do with modifying system or user data without being detected, for example logs or other kinds of resources. Tampering is a violation of integrity.
- Repudiation: threats related to an (untrusted) user that performs some kind of privileged action that cannot be traced (essentially, the user can deny any wrongdoing). Repudiation is a violation of non-repudiability.
- Information Disclosure: leaking or otherwise compromising the user's private information. This category differs from spoofing in that here it is not necessary to impersonate a legitimate user to gain access to private data. This is a violation of confidentiality.
- Denial of service: threats that make a system temporarily unavailable, such as powering off or overloading a server. Denial of service attacks are, of course, a violation of availability.
- Elevation (escalation) of privilege: threats that allow a user to execute operations that they are not authorized to. This class of vulnerabilities violates well put in place access control policies (i.e., authorization).

We based part of our threat modelling on the paper "Threat Modeling and Security Analysis of Containers: A Survey" [35] which uses the STRIDE model to identify vulnerabilities in the Docker ecosystem. According to them, the main vulnerabilities to be found in Docker containers are the following:

- Spoofing the user's GitHub and DockerHub accounts,
- Spoofing the Docker container itself,
- Tampering the network between Docker Hub and Docker Host,
- Tampering application codes on Docker Hub,
- Tampering image during image build,
- Disabling logging functions,
- Modifying log data,
- Overwriting log disk space,
- Weak access control of GitHub and Docker Hub,
- Sensitive parameters to access the host,
- Leakage of information between containers,
- Denial of service (either on the OS side or the DockerHub side)

#### 4.2.2. MITRE ATT&CK - Container Matrix

MITRE [36] is a non-profit organization that concerns itself with solving complex challenges in cybersecurity, defense, aviation, and so forth. They are a leading cybersecurity organization and provide security experts everywhere with useful frameworks for threat modelling such as Engage [37], CALDERA [38], D3FEND [39] and ATT&CK [40].

**Engage** is a framework meant for hardening an application and planning and executing a *playbook* of sorts for engaging with the attacker.

**Caldera** is a suite of programs created with adversary emulation in mind, meant to help train blue teams among other goals.

**D3FEND** is one of the more interesting frameworks we looked at, a knowledge base of defensive techniques. More importantly, it encodes these techniques in a knowledge graph and links them with each other. The companion of sorts to MITRE DEF3ND is MITRE ATT&CK, which we will talk more about in this section, and which proved more interesting to us.

MITRE ATT&CK is a knowledge base used for categorizing and ranking threats based on real-world techniques used by real attackers. MITRE also keeps track of Advanced Persistent Threats (groups of malicious actors) and the techniques associated with them. As per the blog post [41] about the framework, ATT&CK organizes these techniques into tactics. Tactics are ultimately the goal of the attacker. The main format MITRE gets information across are MITRE ATT&CK Matrices, out of which there is one dedicated to containers, which can be seen in Figure 4.1.

The way to read such a matrix is, generally, from left to right. The tactics follow a logical order from initial access to, for example, defense evasion. Under all of these tactics there are a number of exploits or techniques that might help with achieving said goal. For example, in Figure 4.1 there is a column called Defense Evasion, which, if we click it, will give us more information: Defense Evasion consists of techniques attackers can employ to avoid detection throughout their exploits [42]. Looking in the column, we see various techniques that can be employed to this end: for example, Indicator Removal or Impair Defenses which are fairly self-explanatory.

Most of the tactics and attacks in this matrix fall neatly into one of the two attack scenarios that we discussed earlier. Since we are focusing on attack scenario one (the one where the attacker tries to exploit vulnerabilities in already running Docker containers), the tactics that are relevant to this thesis are Initial Access, Discovery, Lateral Movement, Persistence, and Impact.

Initial Access 3 techniques	Execution 4 techniques	Persistence 4 techniques	Privilege Escalation 4 techniques	Defense Evasion 7 techniques	Credential Access 3 techniques	Discovery 3 techniques	Lateral Movement 1 techniques	Impact 3 techniques
Exploit Public-Facing Application	Container Administration Command	External Remote Services	Escape to Host	Build Image on Host	Brute Force (3)	Container and Resource Discovery	Use Alternate Authentication Material (1)	Endpoint Denial of Service
External Remote Services	Deploy Container	Implant Internal Image	Exploitation for Privilege Escalation	Deploy Container	Steal Application Access Token	Network Service Discovery		Network Denial of Service
Valid Accounts (2)	Scheduled Task/Job (1)	Scheduled Task/Job (1)	Scheduled Task/Job (1)	Impair Defenses (1)	Unsecured Credentials (2)	Permission Groups Discovery		Resource Hijacking
	User Execution (1)	Valid Accounts (2)	Valid Accounts (2)	Indicator Removal				
				Masquerading (1)				
				Use Alternate Authentication Material (1)				
				Valid Accounts (2)				

**Figure 4.1:** Mitre ATT&CK Matrix for Containers[43].

### 4.3. Dynamic Analysis - A Silver Bullet?

Based on both the MITRE ATT&CK framework and the STRIDE framework, we have compiled a list of problem areas for vulnerabilities. We would like to formulate the hypothesis that dynamic analysis can help with identifying suspicious or anomalous behavior in a couple of problem areas, namely the points of contact with the outside world: exposed APIs, kernel system calls, and interfaces with other services on the same machine. Additionally, monitoring resource usage so as to prevent denial-of-service is a really important consideration that dynamic analysis is definitely very suitable for.

# 5

## Methodology and Experimental Framework

In this chapter, we present the experimental framework and process we used for running the experiments, as well as the decisions we made. In Section 5.1 we disclose the hardware we used to this end. In Section 5.2 we go into detail into how we retrieved a list of images, and how we made sure that these are relevant to our research. In Section 5.3 and Section 5.4 we discuss our first attempt at mass-analyzing docker images, the lessons we learned from it, and the changes we made for the final model respectively.

### 5.1. Technical Considerations

Our experiments were run on primarily a Lenovo Legion 5 Pro laptop with 32 GB of RAM and an AMD Ryzen 9 6900HX (16 core) @ 3.3GHz processor, running ArchLinux on version 6.3.9-arch1-1 of the Linux kernel. The more extensive of the experiments were run on a NixOS Virtual Machine, Linux Kernel 6.1.27, running on a AMD Ryzen 7 3800X 8-Core processor, utilizing 4 vCPUs and 16 GiB of RAM, stored on an NVMe SSD.

### 5.2. Obtaining a List of Images

Obtaining a list of images to analyze and put through our framework was the first step of our research. We wanted to classify images based on *most impact*. Essentially, we aimed to answer the question of which images, if any, are most vulnerable to attacks. Additionally, we wanted to select images for which the consequences of an attack would be very severe.

Our first proof of concept for the data processing pipeline was based on an idea from the paper *A Study of Security Vulnerabilities on DockerHub* [5]. The idea for image aggregation presented in the paper is to generate a lot of random strings, and then query the DockerHub API using it.

**Listing 5.1:** Docker Hub Fuzzy Search.

```
1 $ docker search [options] $random_string
```

Our first solution built on that idea, as we created a proof of concept that would fuzzy-search DockerHub based on a list of possible keywords as in Listing 5.1. The main drawback of this approach is that its success rate is highly dependent on this list of keywords, and that it favors images with human-comprehensible names. This would miss a significant portion of the images on DockerHub. Additionally, (aside from possibly limiting our search space to images with more than a certain number of stars), there is no real way to prioritize certain images over others.

This was a feature we wanted in our system, so we decided to find a way to retrieve the most popular images on the DockerHub repository. We found a webpage containing this information on the DockerHub website, and decided to inspect what API calls were being made. The call we saw being made is shown in Listing 5.2, which conveniently also batches our images in easy-to-process sets of five.

**Listing 5.2:** Call to Docker Hub.

```
1 https://hub.docker.com/api/content/v1/products/search?page={page_num}&page_size=5
```

## 5.3. A First Attempt

In this section, we present the first attempt we made in applying dynamic analysis tools to a large selection of images. In Section 5.3.1 we talk about the thought process and decision making that went into selecting which tools we were going to use for dynamic analysis. In Section 5.3.2 we set out the data processing pipeline we developed to integrate pulling the images from DockerHub, batching the images, and aggregating and generating the results. In Section 5.3.3 we discuss the preliminary results we obtained from this pipeline and discuss its limitations.

### 5.3.1. Tool Selection

According to OWASP's guidelines we selected tools that seemed promising. Our analysis thereof can be seen in Table 5.1.

Out of the ones we liked, we tested Dockerscan, ThreatMapper, Nuclei, Greenbone Open-VAS and SecretScanner. Eventually, we settled on Nuclei [44] as it seemed to be the least overhead option with the most amount of flexibility and features.

Nuclei is a template-based dynamic analysis vulnerability discovery engine. We ran it using the default templates, which report some suggestions regarding each discovered vulnerability, such as severity, impact, description, and remediation.

Looking at the state of the art, we decided it would be useful to compare our dynamic analysis to its counterpart, static analysis. To this end, most papers out there use Clair [10], a vulnerability scanner made specifically with Docker and OCI containers in mind. From our

**Table 5.1:** Summary of tools we considered.

Tool	Considerations
<b>Aquasec DTA + container scanning</b>	<ul style="list-style-type: none"> <li>- breaks vulnerabilities into categories based on the MITRE framework (initial execution, weaponization, propagation, communication, exfiltration)</li> <li>- dynamic analysis on containers in a sandboxed environment</li> </ul>
<b>Docker Filesystem Analysis</b>	<ul style="list-style-type: none"> <li>- logs changes to the filesystem</li> <li>- built into Docker cli</li> <li>- Rust API bindings</li> </ul>
<b>Panda</b>	<ul style="list-style-type: none"> <li>- rapid reverse engineering of software</li> <li>- tool for replaying and recording execution</li> <li>- uses QEMU</li> <li>- lots of plugins and bindings, though no explicit classifications of vulnerabilities</li> </ul>
<b>Jeff</b>	<ul style="list-style-type: none"> <li>- scanning tool which seems to have support for a couple of suites and programs, though very little information is provided by the author</li> </ul>
<b>Acunetix by Invicti</b>	<ul style="list-style-type: none"> <li>- DAST + IAST scanning, unfortunately paid</li> </ul>
<b>CI Fuzzing tool</b>	<ul style="list-style-type: none"> <li>- not Docker specific DAST (fuzzing)</li> <li>- provides bindings for a lot of programming languages</li> </ul>
<b>PD Scan</b>	<ul style="list-style-type: none"> <li>- relatively small project</li> <li>- extensible to other data stores</li> <li>- scans for last names and other sensitive information</li> <li>- possibly a bother to install on all Docker containers, should think of ways to go about it</li> </ul>
<b>SecretScanner</b>	<ul style="list-style-type: none"> <li>- find secrets on infrastructure - tailored to containers and stuff like that, so seems good</li> </ul>
<b>ThreatMapper</b>	<ul style="list-style-type: none"> <li>- scanning tool which is tailored specifically to docker images (also Kubernetes pods)</li> <li>- essentially monitors already running infrastructure (APIs, etc.) for vulnerabilities</li> <li>- provides some interesting visualizations</li> <li>- scans for secrets</li> </ul>
<b>GitGuardian</b>	<ul style="list-style-type: none"> <li>- seems quite good if online examples are to be believed</li> <li>- easy to setup with Docker</li> <li>- not DAST</li> </ul>
<b>Docker Explorer</b>	<ul style="list-style-type: none"> <li>- mass-scanning approach based on keyword, unfortunately this is not really possible anymore due to API changes</li> <li>- not DAST analysis, regardless, interesting for mass-scanning approach</li> <li>- no support for scanning layers</li> </ul>
<b>Snyk</b>	<ul style="list-style-type: none"> <li>- tailored to container security</li> <li>- they seem to have their own DB of vulnerabilities</li> <li>- interesting to see how it actually works and what kind of analysis it does, since it seems paid/closed source</li> </ul>
<b>Dockerscan</b>	<ul style="list-style-type: none"> <li>- focused on finding sensitive information (also scans envvars which is quite nice)</li> <li>- also focused on more active attacks</li> </ul>
<b>Greenbone OpenVAS</b>	<ul style="list-style-type: none"> <li>- open source</li> <li>- fairly generic API, seems to work on most systems</li> <li>- CVSS rated vulnerabilities</li> </ul>
<b>Trivy</b>	<ul style="list-style-type: none"> <li>- seems to combine SAST</li> <li>- useful for secret scanning</li> <li>- CVEs from multiple sources (prevents outdated databases)</li> <li>- tailored to docker</li> <li>- open source</li> </ul>
<b>Nuclei</b>	<ul style="list-style-type: none"> <li>- very fast</li> <li>- DAST</li> <li>- seems easy to involve in workflows</li> <li>- open source</li> </ul>

survey of static analysis tools, we ended up selecting Trivy as our static analysis tool of choice, as it is very appreciated by the security community. Additionally, it is the default scanner of Gitlab [45], ArtifactHub [46] and Harbor [47], as well as being a certified Red Hat scanner [48]. According to Gitlab [49], Trivy outperforms Clair when considering repository scanning, tar file scanning, and number of data sources.

### 5.3.2. Data Processing Pipeline

To run our experiment against a representative number of images, we created a test setup that pulls images from the DockerHub API in batches of five (as described in Section 5.2), and then processes them. The test setup runs the five images, using default credentials when needed and allocating a random, unused, high port (using the helpful `-P` flag the docker daemon offers). Afterwards, we query which ports are being used by the batch of images using `docker ps` and match them to the corresponding image names using a homegrown bash script, as can be seen in the source code in Appendix B.

Finally, we run Trivy on the (static) Docker image, and we run Nuclei on the discovered TCP port, if it is exposed. Afterwards, we dump the discovered vulnerabilities in a `json` file. We then aggregate and process the results using `python` and `matplotlib`.

### 5.3.3. Preliminary Results

For the preliminary version of our pipeline, we collected data about the most popular 625 Docker images. We created two graphs detailing the images with the largest number of vulnerabilities in our dataset, as can be seen in Figure 5.1 and Figure 5.2. Both frameworks seemed to agree that most vulnerable images are images that provide metrics related to other programs running on the same host. In addition to that, `hashicorp/vault` is also seen as very vulnerable by both methods, which makes sense, as it is a program meant for storing secrets, tokens, passwords, and other kinds of credentials [50], so it should not be run in a publicly accessible environment. Since a lot of the vulnerabilities discovered by Nuclei were information messages about the services running in each Docker container, we were unsatisfied with the results: a lot of them were not per se interesting vulnerabilities but rather info messages. We decided to adapt our framework to see if we would be able to find any more insightful results.

### 5.3.4. Note on Timing

Dynamic analysis is generally regarded as a lot slower than static analysis. To verify this fact, we ran both Trivy and Nuclei 40 times on a sample image to calculate an average running time. The results can be seen in Figure 5.3 and Figure 5.4. For timing the difference, we used the `time`<sup>1</sup> Linux command line utility. From the runs, we deduced that static analysis is roughly twenty times faster than dynamic analysis on the same image.

---

<sup>1</sup>we are aware that `time` is not the most accurate timing utility. However, it is straightforward to use and replicate, and for this use case precision was not required.

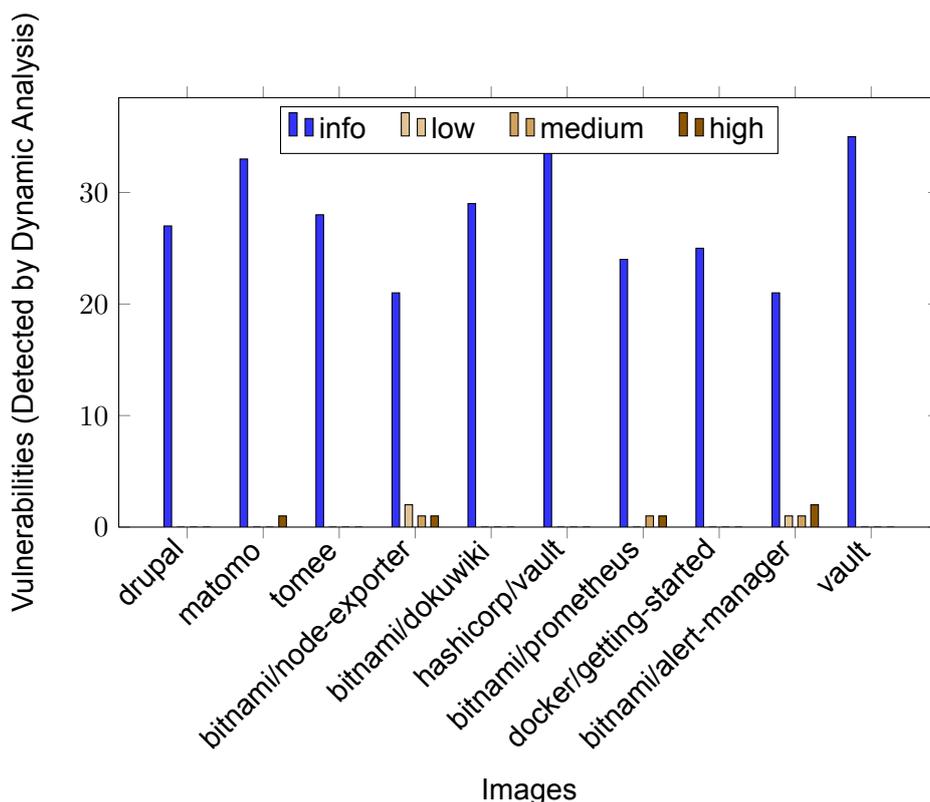


Figure 5.1: 10 Most Vulnerable Images, Reported by Dynamic Analysis.

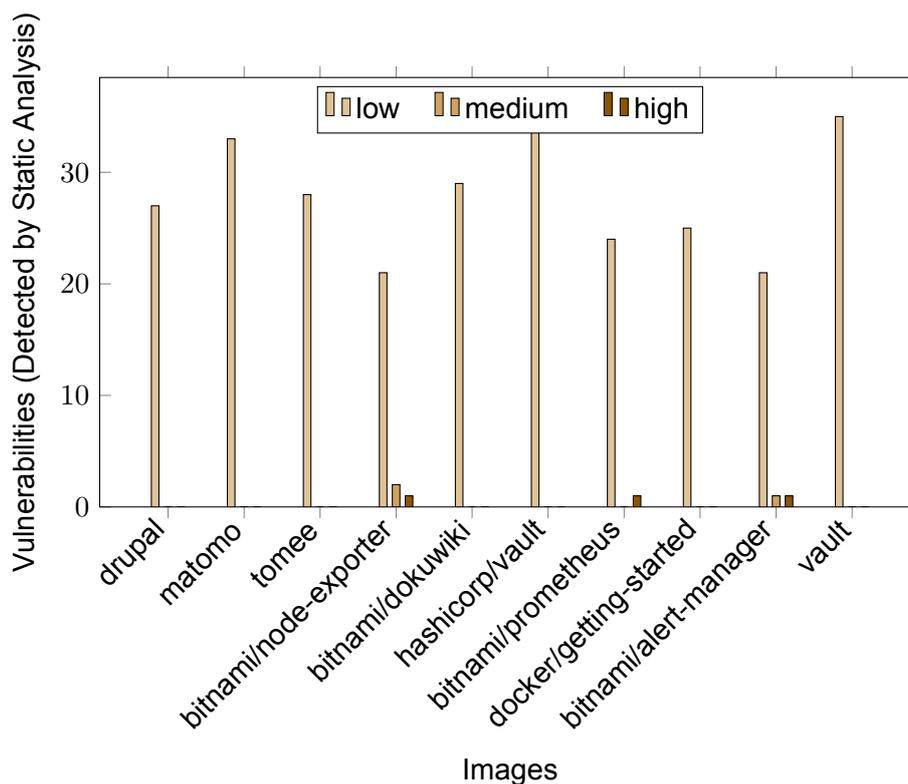
## 5.4. The Revised Pipeline

In this section we will discuss the second iteration of our framework. We decided to more carefully follow the motivating scenarios detailed in Chapter 4, and thus identified areas that we wanted to focus on. The previous method did not target all of these areas. Amongst these areas are: suspicious system calls, network activity, resource usage, and behavior under some simulated load. The rationale behind the last point was that containers that behave strangely or crash when sent a lot of requests should not be automatically trusted or deployed by your average developer (and could thus, in a way, also be considered vulnerable).

### 5.4.1. Tool Selection

For the second iteration of our experiment, we decided to also revise the tools that we used. Most importantly, we needed a combination of tools that would cover all of the problem areas we identified when threat modelling. Looking at the state of the art and narrowing down the list from Section 5.3.1, we selected a couple of tools that proved interesting and compared them by looking at their feature sets. A summary of this comparison can be found in Table 5.2. The tools we selected in the end were Falco, Wapiti and FFUF.

**Falco** is a kernel module that listens for suspicious activity performed by userspace programs. It is designed to protect against security threats in real time, and detect abnormal behavior [51]. It was originally based on **Sysdig**, another kernel monitoring tool, which only



**Figure 5.2:** 10 Most Vulnerable Images, Reported by Static Analysis.

reports kernel events rather than scanning for abnormal behavior [52]. We run it with the help of the provided modern BPF container [53].

Falco scans for a variety of indicators [51] which we determined to be useful according to our threat model, namely:

- Privilege Escalation using containers,
- Namespace changes (using tools like `setns`),
- Reads/writes to known directories (like `\etc.` or `\usr\bin`),
- Creating Symlinks,
- Ownership and Mode changes,
- Unexpected network connections,
- Spawned processes using `execve`,
- Executing shell binaries (`sh`, `bash`, `zsh`, etc.),
- Executing ssh binaries (`ssh`, `scp` etc),
- Mutating various system binaries

**FFUF (Fuzz Faster yoU Fool)** is a fuzzing framework written in Go, hailed by hackers as a lightweight, fast alternative to `dirb` or `dirbuster`. We use FFUF in combination with Falco, to generate a load for testing purposes. We do this to try and elicit strange behaviors from the

```

Performance counter stats for 'trivy image nginx' (40 runs):

   39,895.01 msec task-clock:u          #    33.595 CPUs utilized          ( +-  3.27% )
      0          context-switches:u     #    0.000 /sec
      0          cpu-migrations:u       #    0.000 /sec
   548,981      page-faults:u          #   20.976 K/sec                    ( +-  4.52% )
118,774,577,251 cycles:u              #    4.538 GHz                      ( +-  3.36% ) (66.36%)
  202,388,047  stalled-cycles-frontend:u #    0.26% frontend cycles idle    ( +-  3.92% ) (64.28%)
  364,117,441  stalled-cycles-backend:u #    0.47% backend cycles idle     ( +-  3.20% ) (61.80%)
339,271,368,141 instructions:u                #    4.41 insn per cycle
# 0.00 stalled cycles per insn      ( +-  3.01% ) (60.67%)

 69,908,126,724 branches:u           #    2.671 G/sec                    ( +-  3.26% ) (61.73%)
  431,468,222  branch-misses:u        #    0.95% of all branches          ( +-  3.08% ) (63.01%)
  98,933,176,240 L1-dcache-loads:u      #    3.780 G/sec                    ( +-  3.10% ) (64.96%)
 1,204,072,946 L1-dcache-load-misses:u     #    1.80% of all L1-dcache accesses ( +-  3.90% ) (66.46%)
<not supported> LLC-loads:u
<not supported> LLC-load-misses:u

   1.188 +- 0.814 seconds time elapsed ( +-  68.55% )

perf stat -r 40 -d trivy image nginx 34.83s user 4.57s system 82% cpu 47.57s total

```

Figure 5.3: Trivy Timing Analysis.

```

Performance counter stats for 'nuclei -u 0.0.0.0:32768' (40 runs):

   973,324.11 msec task-clock:u          #   10.067 CPUs utilized          ( +-  4.63% )
      0          context-switches:u     #    0.000 /sec
      0          cpu-migrations:u       #    0.000 /sec
   2,154,875    page-faults:u          #    4.311 K/sec                    ( +-  4.64% )
2,549,407,048,155 cycles:u              #    5.100 GHz                      ( +-  4.62% ) (62.57%)
  5,256,978,394 stalled-cycles-frontend:u #    0.40% frontend cycles idle    ( +-  4.57% ) (62.49%)
  24,104,829,475 stalled-cycles-backend:u #    1.85% backend cycles idle     ( +-  4.60% ) (62.52%)
 3,907,752,150,213 instructions:u                #    2.99 insn per cycle
# 0.00 stalled cycles per insn      ( +-  4.62% ) (62.55%)

 847,647,832,932 branches:u           #    1.696 G/sec                    ( +-  4.62% ) (62.60%)
 10,643,741,674  branch-misses:u        #    2.45% of all branches          ( +-  4.62% ) (62.58%)
1,401,805,327,841 L1-dcache-loads:u      #    2.804 G/sec                    ( +-  4.62% ) (62.65%)
 30,002,660,529 L1-dcache-load-misses:u     #    4.18% of all L1-dcache accesses ( +-  4.63% ) (62.63%)
<not supported> LLC-loads:u
<not supported> LLC-load-misses:u

   96.684 +- 0.703 seconds time elapsed ( +-  0.73% )

perf stat -r 40 -d nuclei -u 0.0.0.0:32768 821.39s user 111.28s system 24% cpu 1:04:27.47 total

```

Figure 5.4: Nuclei Timing Analysis.

Docker images under test. The main reason why we chose FFUF over other testing frameworks is that FFUF works better for automatically fuzzing numerous APIs without an OpenAPI specification (which is nice, as we do not know a lot about the Docker images that we are testing). To perform a scan on a certain host or URL, FFUF needs a wordlist, as well as a pattern to apply the wordlist to. As a choice for the wordlist we picked various ones from SecLists [54] (more detail on which can be found in Chapter 6), and as a pattern we picked `0.0.0.0:open-port/FUZZ`.

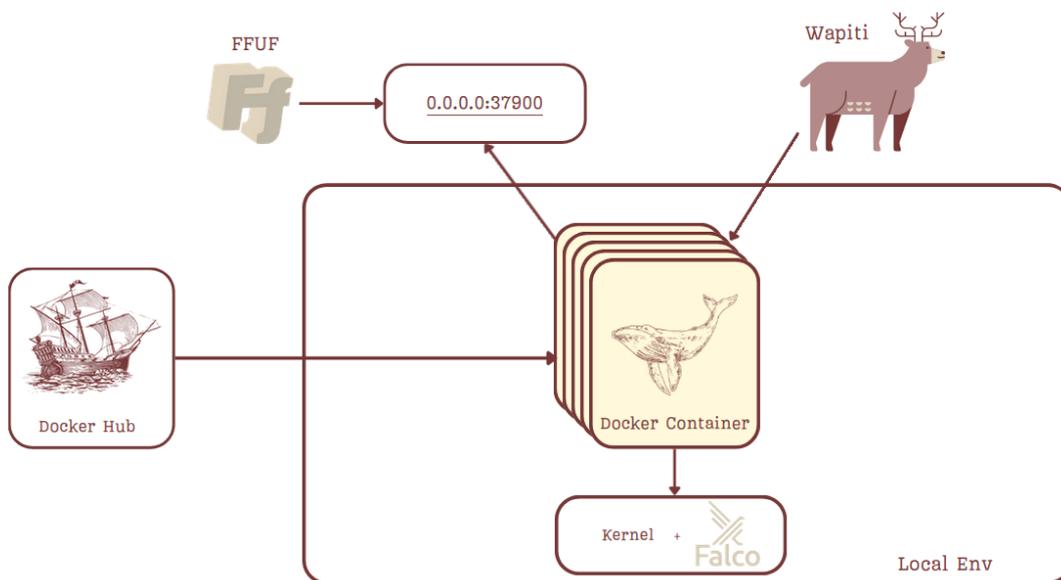
**Wapiti** is a command line application which performs automated audits for Web applications [55]. It performs black-box scans of web applications, running multiple modules on them. It checks for SQL injections, XSS attacks, file disclosure, searches for scripts, detects suspicious (less used) HTTP methods, brute forces login forms and more. Additionally, it can execute these “automated penetration tests” concurrently, and dump the data it finds to many different file formats. Throughout our study, especially while analyzing Friendica (as can be seen in Figure 6.1), we also used its companion application `wapiti-getcookie`. It enabled us to simply and straightforwardly extract cookies out of the application to allow `wapiti` to “log-in” to Friendica.

**Table 5.2:** Second iteration of the tool comparison.

	Docker Friendly	Network Monitoring	Dynamic Analysis	Resource Monitoring	Syscall Analysis	Secret Analysis
Aquasec DTA	✓	✓	✓	✓	✓	✓
ThreatMapper	✓	✓				
Trivy	✓					✓
Falco/Sysdig	✓	✓	✓	✓	✓	
Wapiti		✓	✓			✓
SecretScanner	✓					✓
GreenBone OpenVAS	✓	✓	✓			
DockerScan	✓	✓	✓			✓

### 5.4.2. Data Processing Pipeline

The data processing pipeline is roughly similar to the first iteration of the experiment. The list of images we scanned can be found in Appendix C. The pulling and batching of Docker images is the same<sup>2</sup>. The main factor that changes is the tools we run: again, after aggregating the ports each image is using, we run FFUF and Wapiti to scan the open ports. Since Falco is a kernel module, and reports data about which image caused what suspicious behavior, we only need to start it once in the beginning of our run. The scope of our experiment was also larger this time around, as we scanned 2500 of the most popular images on DockerHub.

**Figure 5.5:** Second iteration of the data processing pipeline.

<sup>2</sup>We pull and batch the images again instead of caching them all because storing them gets extremely slow and inefficient due to the size of the images

### 5.4.3. A note on Isolation

As Falco is a kernel module, we thought it might catch events coming from other sources as well (even though it report witch container made the suspicious calls). To make sure there were no unwanted interactions between the components of the pipeline, we decided to test each component in isolation in a single threaded, non-virtualized environment on the image `traefik/whoami`. We then compared this with the results of our pipeline and found no difference.

# 6

## Results & Discussion

In this chapter, we will present the results that we collected using the experimental framework detailed in Chapter 5. In Section 6.1 we will present an overview of the vulnerabilities we found. In Section 6.2, Section 6.3 and Section 6.4, we draw some interesting conclusions from factors that can affect the number of vulnerabilities we find in an image, like the size of the wordlist we use for fuzzing, the number of pulls (i.e. popularity), and image age.

### 6.1. Overview

In this chapter, we will discuss the vulnerabilities found by the two main dynamic analysis tools that we use - Falco and Wapiti. It is worth noting that we chose to display these results in different manners, as they are differently relevant to the threat model we defined in Chapter 4.

Wapiti categorizes the vulnerabilities it finds according to OWASP-ID. OWASP-IDs are IDs given to different classes of vulnerabilities by OWASP. We then translated this OWASP-ID to the best matching CVE vulnerability, where possible. Falco, on the other hand, classifies vulnerabilities by MITRE ATT&CK tactic. The results of both kinds of analysis can be seen in Figure 6.2 and Figure 6.3.

#### 6.1.1. Falco vulnerabilities

As mentioned in Chapter 5, Falco is a kernel module that flags and registers suspicious activities. In our run on the 2500 containers, it did not register many of suspicious events, namely just sixteen, out of which a significant number are suspicious reads and writes performed by the container `grafana/mimir` on various files in `/etc`. Mimir is a scalable storage solution for Prometheus [56], which is a service that provides metrics about a system. Of course, this is not automatically a vulnerability, but it signals suspicious behavior. What is also interesting is that this discovery is very much in line with the findings of the first iteration of the pipeline (detailed in Section 5.3), in that the most vulnerable pieces of software are related to providing

metrics, and interfacing heavily with other services on the same machine.

### 6.1.2. Wapiti vulnerabilities

With this approach, we have discovered that already reported CVE-2018-5164 and CVE-2008-3661 are present in many of Docker containers, which includes the container we showed in our case study in Appendix A. The vulnerabilities are related to misconfiguration of different CSP<sup>1</sup> headers in all sorts of software. These two vulnerabilities are the most occurring already reported ones. The vulnerabilities are 5 and 10 years old, respectively, and both have a CVSS score of 4.3.

Overall, our tools have found vulnerabilities in 61 containers out of the 2500 we scanned, indicating that 2.44% of the most popular containers on DockerHub may be vulnerable.

### 6.1.3. The bug in Friendica

Friendica (formerly Friendika or Mistpark) is a decentralized social network which is a part of the Fediverse [57], which is meant to be used as an open source alternative to Facebook [58]. Plenty of German newspapers like Heise Magazine and t3n have described it as a promising alternative to centralized social networks and have foreseen its mass adoptions [59], [60]. According to the Friendica directory [61], there are over 220 instances active at the time of writing, spread over ten languages.

During our scans, we scanned the Docker image of the latest version of the social network. The vulnerability allows us to, during setup, execute arbitrary JavaScript code by injecting it into the database password field. Wapiti discovered it by injecting this UTF-8 encoded string:

**Listing 6.1:** URL-Encoded Friendica Setup Page Payload.

```
1 \%\%22\%3E\%3CScRiPt\%3Ealert\%28\%27w0wma8e1lg\%27\%29\%3C\%2FsCrIpT\%3E
```

which decodes to

**Listing 6.2:** Decoded Friendica Setup Page Payload.

```
1 "><ScRiPt>alert('w0wma8e1lg')</sCrIpT>
```

After this, we decided to investigate the bug more thoroughly. We set up a test instance of Friendica version 2023.05 (the version where the vulnerability was discovered) in a dedicated testing environment. The environment was a Virtual Machine on the same host we ran the rest of our experiments in. We used Docker to deploy both the social network and the database it needs (`mysql:latest`). After that, we made a mock account and started exploring the settings and functionality in an attempt to find another code injection vulnerability. Lo and behold, we have discovered that another field is vulnerable to code injection, namely, the display name of the user. The payload we injected this time was the following:

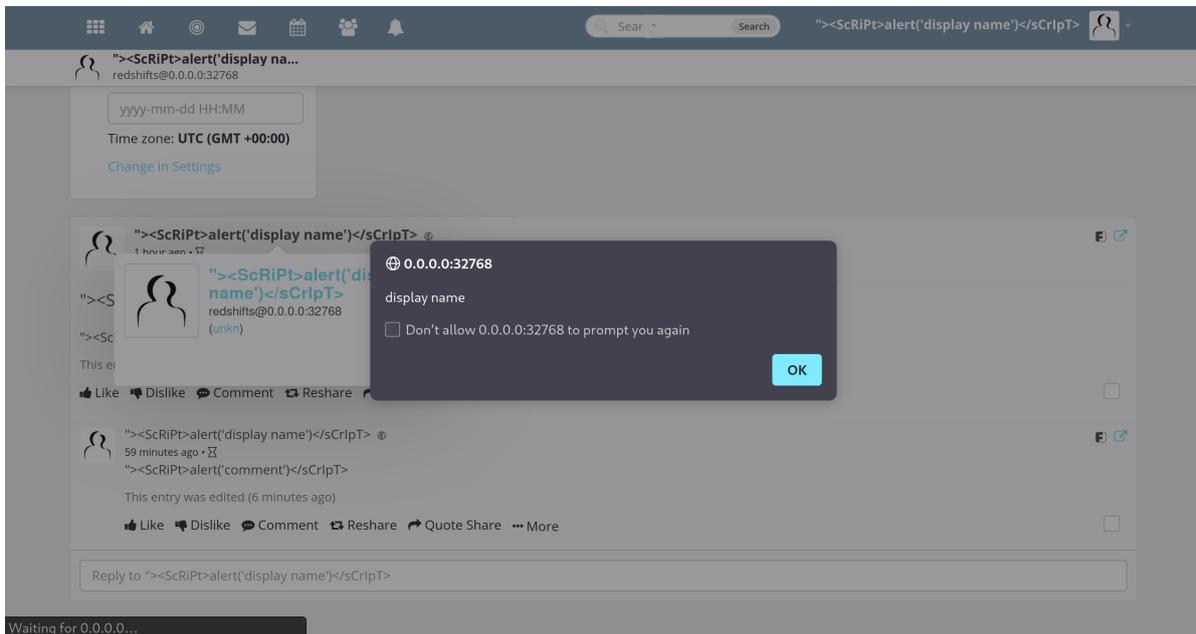
**Listing 6.3:** Decoded Friendica Setup Page Payload.

```
1 "><ScRiPt>alert('display name')</sCrIpT>
```

---

<sup>1</sup>Content Security Policy

Which resulted in 3 of the popups that can be seen in Figure 6.1 being triggered on page refresh or page changes. The appearance of these popups proves that we can achieve arbitrary code execution on the social network.



**Figure 6.1:** Behavior of Friendica under code injection.

We have reached out to the Friendica team and let them know about the vulnerability. At time of writing, we have received a response from them confirming the vulnerabilities. They are also working on some fixes that they will include in the September 2023 release of Friendica (2023.09). The report resulted in two pull requests on the GitHub repository<sup>2</sup>. Additionally, we have reserved two CVE numbers and are currently awaiting confirmation from MITRE.

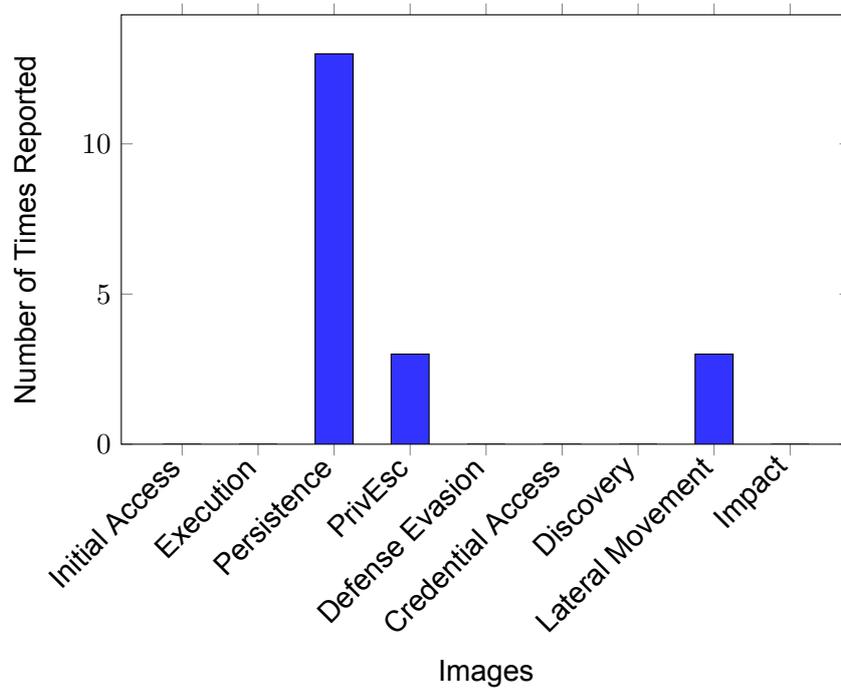
## 6.2. Image and Vulnerability Age

In addition to plotting the total number of vulnerabilities we found, we also decided to plot the number of days since the last update of all the vulnerable images that Falco and Wapiti identified. In doing this, we discarded three images, which we counted as outliers, namely glassfish, piwik and nuxeo, which have been deprecated, and therefore updated last several years ago. For comparison's sake, we have also plotted the same CDF for all the images we scanned. Both of these results can be seen in Figure 6.5.

## 6.3. Vulnerabilities versus Popularity

In addition to everything mentioned above, we decided to plot the number of pulls, both for the vulnerable images and for all images in our test set, to try and see whether image popularity

<sup>2</sup><https://github.com/friendica/friendica/pull/13327>, <https://github.com/friendica/friendica/pull/13328>



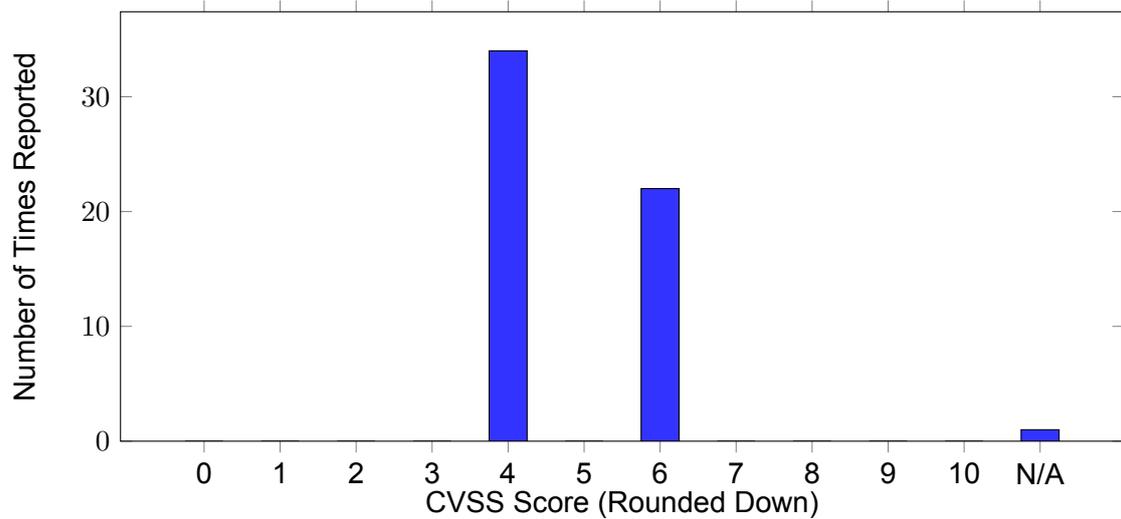
**Figure 6.2:** Number of suspicious events reported by Falco - grouped by MITRE ATT&CK tactic.

has any correlation with the number of vulnerabilities we find. The images with more pulls seem clustered towards having less vulnerabilities on average, which would make sense as they are probably more well maintained. Most of the less popular images we have scanned seem to have a fairly even distribution on the vulnerability scale, so in that case there does not seem to be a correlation.

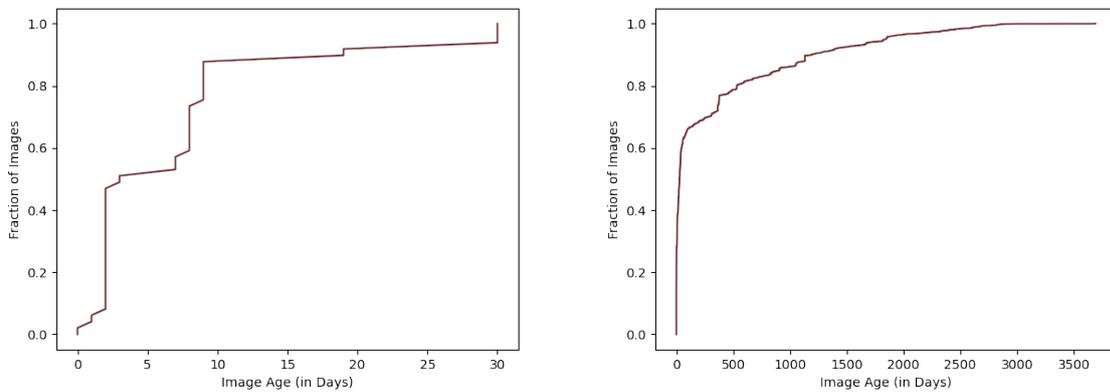
## 6.4. Choice of Wordlist

The last metric which we decided to examine was how the choice of wordlist (and consequently, the size of the wordlist, and therefore the load that we are putting on the Docker image) matters in the number of vulnerabilities that we find. To this end, we decided to select one of the vulnerable images, namely `grafana/mimir`, and re-run the experiment multiple times with wordlists of different lengths. What was interesting to note is that all of the detected vulnerabilities occurred at the startup of the container, and fuzzing with different wordlists had no impact on the number of vulnerabilities we found. We used the repository `SecLists`<sup>3</sup> as a source for our wordlists. Out of those, we selected `./Discovery/Web-Content/directory-list-2.3-big.txt`, `./Discovery/Web-Content/directory-list-2.3-medium.txt` and `./Discovery/Web-Content/directory-list-2.3-small.txt`, which contained 1273833, 220560 and 87664 words respectively.

<sup>3</sup><https://github.com/danielmiessler/SecLists>



**Figure 6.3:** Number of vulnerabilities reported by Wapiti, by CVSS score (rounded down).



**Figure 6.4:** Images Days Since Last Update (Cumulative) CDF (Vulnerable images: left, all images: right).

## 6.5. False Positive Rate

One of the main complaints against static analysis is the large number of false positives. As we have had a relatively small number of detected vulnerabilities, we have manually verified all the Wapiti-detected ones, and can say that they do, in fact, occur. Therefore, the rate of false positives of Wapiti in our study is 0%.

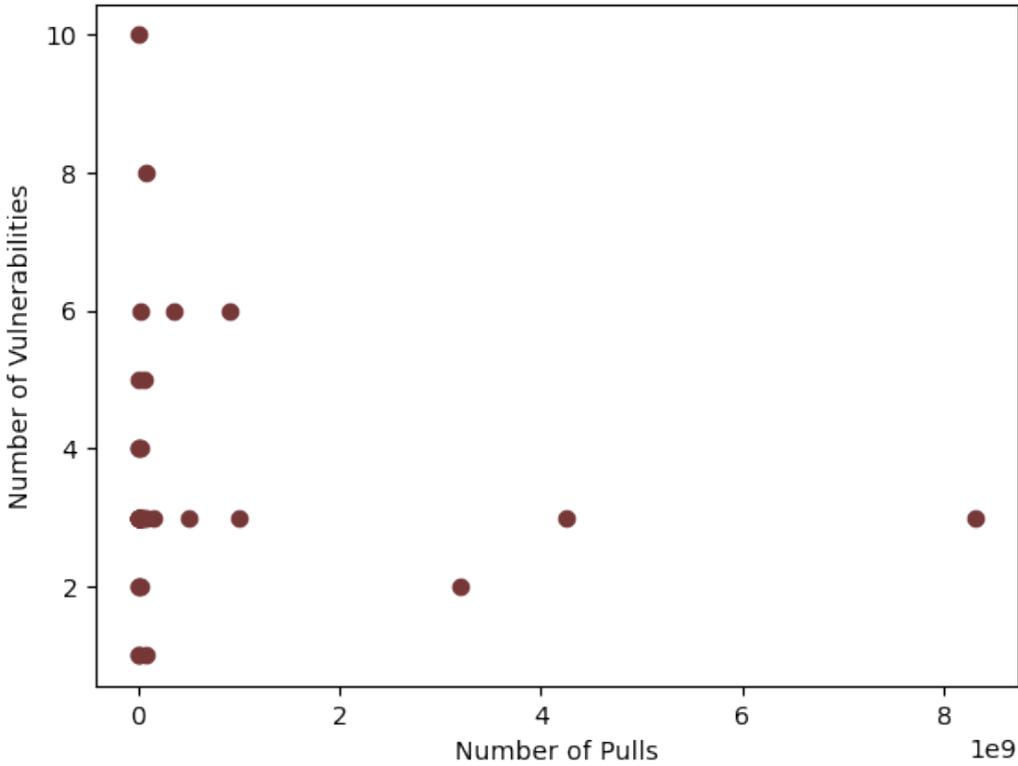


Figure 6.5: Image Popularity vs. Vulnerabilities (Only charted for vulnerable images).

# 7

## Future Work

This chapter covers recommendations for future work. In Section 7.1 we discuss a limitation of our current setup. In Section 7.2 we discuss the idea of automating more of the setup of Docker containers.

### 7.1. Improving port fuzzing

Currently, our setup takes into account only containers that expose TCP ports. This is because when running the containers we pass the `-P` flag, which makes the container publish a high, unused port (if it uses any at all). It would be interesting to see if we can extract what other ports using other protocols we can extract and fuzz. For example, it could prove useful to fuzz UDP ports (for example, using binary fuzzing) as well for, say, a database.

Moreover, it would be interesting to experiment with other kinds of fuzzing tools. A lot of which need an OpenAPI certification to scan a webapp API. During this research we toyed with the idea of automatically generating such a description, but discarded the idea as it was too time-consuming. More involved fuzzing would also lead to more interesting interactions with the system under test - for example, actually automatically logging into an admin panel is useful - potentially leading to more discovered vulnerabilities.

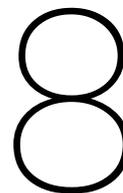
### 7.2. Automated setup of applications

In this work, we exclusively set up Docker containers by making use of the Docker daemon and command line utilities. For most intents and purposes this is fine, but it has caused some applications to not be fully set up at the time when we started fuzzing them.

Of course, this is difficult to automate, but the Docker ecosystem provides the `docker-compose` tool, which is meant to help automating at least part of the setup process of containers by providing sane defaults for, for example, environment variables. This, however, would

imply spinning up several containers at the same time and analyzing the whole running system as opposed to containers in isolation.

Transitioning the whole study to Kubernetes (or another container orchestration software) and using helm charts (and gathering those from ArtifactHub instead of DockerHub) instead of plain Docker could also help



# Conclusion

In this final chapter we will conclude this thesis. In Section 8.1 we draw some conclusions from our results. We will reiterate the research questions from Chapter 1 and answer them to the best of our abilities in Section 8.2. Finally, in Section 8.3 we give some security recommendations to people deploying Docker applications.

## 8.1. Interpreting the Results

In this section we will present the conclusion we came to after analyzing the results presented in Chapter 6.

In general, it seems like dynamic analysis finds significantly fewer vulnerabilities than static analysis. We found that Wapiti and Falco only found vulnerabilities in approximately 3% of images. This seems in line with the existing research, which we have presented in Chapter 2. In the paper “Understanding the Security Risks of Docker Hub” [6], the authors show that some executable files present in Docker containers, when ran, exhibit suspicious behavior. These amounted to about 40 images out of the 2 million images that were scanned.

Dynamic analysis also tends to do very well at service discovery, as we’ve found out from our first attempt, when using Nuclei as a dynamic analysis tool. It also fares quite well in finding new vulnerabilities, as we have shown in Figure 6.1.

An interesting conclusion we drew from our preliminary pipeline is that a lot of software that interfaces with other components of a host contains more vulnerabilities than average. Examples of these kinds of applications are `bitnami/node-exporter`, `bitnami/alert-manager`, and `grafana-mimir`. Therefore, people using such applications should take care that they are not exposed to the greater internet.

Empirically, there seems to be no significant correlation between time since last update and amount of vulnerabilities, as we can see by the fact that the two graphs in Figure 6.5 are not very visually different.

## 8.2. Research Questions

In this section, we will reiterate and answer the research questions from the introduction.

**RQ1: how applicable and useful is dynamic analysis for finding vulnerabilities in Docker containers?** Dynamic analysis seems like a decent tool for finding vulnerabilities in Docker containers. It does not find many vulnerabilities, but it is best used in conjunction with other tools, as a sanity check (and to minimize false positives and noise). Dynamic analysis shines at identifying services running on machines and identifying misconfigurations, but does badly at identifying secrets and vulnerabilities in outdated software packages, for example.

A lot of the vulnerabilities we have found in Docker images are related to the often overlooked Content Security Policy, for example. The CVEs associated with the vulnerabilities are, on average, 4.3 in severity, which qualifies them as Medium severity. According to OWASP [62], the lack of CSP headers is an exploitable vulnerability, and the existence of these headers is a first line of defense against cross-site scripting attacks.

**RQ2: how does static analysis compare to dynamic analysis for finding vulnerabilities in Docker containers?** Static analysis fares better than dynamic analysis in finding finer, smaller, lower severity vulnerabilities than dynamic analysis. Dynamic analysis finds higher severity, bigger vulnerabilities. Additionally, dynamic analysis has less noise than static analysis but might miss vulnerabilities.

Dynamic analysis also takes longer to execute and takes a lot more resources than static analysis. Of course, dynamic analysis also implies some amount of continuous scanning of a running program, which is even more resource intensive. To quantify, as per the results of our preliminary pipeline (as seen in Section 5.3.4, the average run of Trivy was about 20 times faster than the average Nuclei run.

In conclusion, we believe that static analysis and dynamic analysis should be used together to find a wider array of bugs and vulnerabilities, filter out noise, and still be resource efficient.

## 8.3. Recommendations

For developers that want to deploy services using Docker, caution is definitely advised when running Docker containers from untrusted sources. Some recommendations for the end user are the following:

- Using a system call filter or making use of seccomp profiles [63]
- Avoiding running containers with root privileges, unless absolutely necessary
- Limiting resource usage for untrusted containers
- Using trusted container repositories

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# A

## Appendix A: Stepping Through an Example

In this appendix we will manually step through an example run of our experiment on a test image, namely `traefik/whoami`. We start by spinning up the container, which involves downloading it (as the image cannot be found locally, as can be seen in Figure A.1. Figure Figure A.2 shows how we start up Falco, to intercept suspicious events during the fuzzing and dynamic analysis steps. Using the TCP port we discovered in the first step of our pipeline, we now start up Wapiti and FFUF, as shown in Figure A.3 and Figure A.4, providing the port as a command line argument. As can be seen, Falco does not detect any suspicious behavior with the image, but Wapiti detects some misconfigured cookie settings. We will talk more about this in ??.

```
laura@mura ~ % docker run -d -P traefik/whoami
Unable to find image 'traefik/whoami:latest' locally
latest: Pulling from traefik/whoami
9a3f489abe7a: Pull complete
442cc7f997f8: Pull complete
52416ed98bd1: Pull complete
Digest: sha256:6956a30c7d33f61bb7fdf1c14dcb3192fca4093cd5b91b5f9b38862862072fe9
Status: Downloaded newer image for traefik/whoami:latest
5431c4345c9fca664b389e13e5b248e34c02ac175bb6df15f9be139191f32da9
laura@mura ~ % docker ps
CONTAINER ID   IMAGE          COMMAND                  CREATED          STATUS          PORTS                                                                 NAMES
5431c4345c9f   traefik/whoami "/whoami"               28 seconds ago  Up 27 seconds  0.0.0.0:32768->80/tcp, :::32768->80/tcp  elated_ride
laura@mura ~ %
```

**Figure A.1:** Running the `traefik/whoami` container and inspecting the open ports



```
laura@mura ~ % ffuf -w ./pkg/SecLists/Discovery/Web-Content/directory-list-2.3-medium.txt -u 0.0.0.0:32768/FUZZ

  /'---\ /'---\ /'---\
 / \_/ \_/ \_/ --- \_/ \_/
 \| ,--\ \| ,--\ \| ,--\ \| ,--\
 / \_/ \_/ \_/ \_/ \_/ \_/ \_/
 \| ,--\ \| ,--\ \| ,--\ \| ,--\
  \_/ \_/ \_/ \_/ \_/ \_/

v2.0.0

-----
:: Method      : GET
:: URL         : 0.0.0.0:32768/FUZZ
:: Wordlist    : FUZZ: /home/laura/pkg/SecLists/Discovery/Web-Content/directory-list-2.3-medium.txt
:: Follow redirects : false
:: Calibration : false
:: Timeout     : 10
:: Threads    : 40
:: Matcher     : Response status: 200,204,301,302,307,401,403,405,500
-----

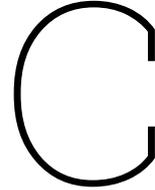
:: Progress: [220560/220560] :: Job [1/1] :: 0 req/sec :: Duration: [0:00:02] :: Errors: 220560 ::
laura@mura ~ % █
```

Figure A.4: Starting up FFUF

# B

## Appendix B: Source Code Repositories

In this appendix we provide a link to the source code of the thesis as well as the first iteration of the pipeline.



# Appendix C: List of Scanned Images

In this appendix, we will add a list of the images we have scanned, the time since last update, the number of pulls since creation, and the number of Wapiti vulnerabilities.

```
library/alpine, "2023-06-15T05:49:31.324129Z", 9846285156, 0
library/nginx, "2023-07-28T14:27:43.635624Z", 8315166117, 3
library/busybox, "2023-07-19T00:02:43.494522Z", 8108953956, 0
library/ubuntu, "2023-08-03T05:05:31.959976Z", 7713063447, 0
library/python, "2023-07-28T18:48:44.56101Z", 6844576892, 0
library/redis, "2023-07-29T06:19:43.887284Z", 5542748522, 0
library/postgres, "2023-07-29T02:50:03.314078Z", 5467656623, 0
library/node, "2023-07-28T22:35:57.267842Z", 4462810038, 0
library/httpd, "2023-07-28T20:16:42.356434Z", 4255882834, 3
library/mongo, "2023-08-03T04:05:48.126953Z", 3834949335, 0
library/memcached, "2023-07-28T11:25:39.444425Z", 3773873264, 0
library/mysql, "2023-08-03T03:04:42.112218Z", 3751110336, 0
library/traefik, "2023-07-25T00:59:52.33693Z", 3189902738, 2
library/mariadb, "2023-08-03T04:10:12.83502Z", 2604507733, 0
library/docker, "2023-07-31T23:49:20.200537Z", 2506390802, 0
library/rabbitmq, "2023-08-03T13:01:07.044804Z", 2178647216, 0
library/hello-world, "2023-07-13T22:41:44.15347Z", 2170661295, 0
library/openjdk, "2023-08-04T01:32:05.989596Z", 2026541365, 0
library/golang, "2023-08-03T05:26:16.851535Z", 1891712698, 0
library/registry, "2023-06-16T16:50:22.49722Z", 1603225569, 0
library/wordpress, "2023-08-03T10:18:56.05186Z", 1214669488, 0
library/centos, "2022-12-09T19:13:54.287062Z", 1123104282, 0
library/debian, "2023-07-28T00:16:23.279017Z", 1078085818, 0
library/php, "2023-07-29T18:36:45.907638Z", 1041159133, 0
library/consul, "2023-06-27T19:37:08.722775Z", 1011412619, 0
library/influxdb, "2023-07-28T19:49:20.889993Z", 1010576028, 3
library/nextcloud, "2023-07-30T02:17:51.382957Z", 908904740, 6
library/sonarqube, "2023-07-26T00:54:46.548133Z", 880969699, 0
library/haproxy, "2023-07-28T14:15:35.245604Z", 847441381, 0
library/ruby, "2023-07-29T05:59:40.286757Z", 837651538, 0
library/amazonlinux, "2023-07-26T19:56:25.45927Z", 803840442, 0
library/elasticsearch, "2023-06-21T20:52:09.580397Z", 780336717, 0
library/tomcat, "2023-08-04T02:11:32.532573Z", 673612838, 0
library/maven, "2023-08-03T07:38:34.133969Z", 603772473, 0
library/eclipse-mosquitto, "2023-06-16T16:14:50.317404Z", 595117859, 0
library/telegraf, "2023-08-01T04:37:58.717016Z", 572057125, 0
```

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library/caddy, "2023-08-03T22:15:53.361395Z", 502736942, 3  
library/bash, "2023-08-03T09:04:09.773003Z", 368435720, 0  
library/adminer, "2023-07-28T14:18:42.231498Z", 361703057, 6  
library/ghost, "2023-08-04T00:25:40.835905Z", 351291151, 0  
library/kong, "2023-08-03T04:03:23.579871Z", 313318985, 0  
library/zookeeper, "2023-07-26T02:10:47.086424Z", 240701261, 0  
library/neo4j, "2023-08-03T22:37:45.001092Z", 235506717, 0  
library/perl, "2023-08-04T01:06:49.341987Z", 230556091, 0  
library/buildpack-deps, "2023-08-03T04:02:45.033165Z", 218506163, 0  
library/mongo-express, "2022-11-30T02:36:12.818618Z", 214385808, 0  
library/gradle, "2023-08-03T07:51:01.164897Z", 208818865, 0  
library/cassandra, "2023-08-03T07:32:22.493639Z", 188652363, 0  
library/logstash, "2023-06-21T20:55:02.383566Z", 186510393, 0  
library/couchdb, "2023-07-28T04:03:03.883486Z", 181873135, 0  
library/nats, "2023-07-14T00:21:52.356023Z", 176720664, 0  
library/percona, "2023-07-22T02:11:22.599221Z", 152895642, 0  
library/chronograf, "2023-07-28T03:29:47.080917Z", 152616416, 3  
library/drupal, "2023-08-03T10:02:55.802897Z", 151555848, 0  
library/kibana, "2023-06-21T20:53:54.609473Z", 148486120, 0  
library/jenkins, "2018-07-17T16:47:45.266614Z", 148460830, 0  
library/solr, "2023-08-03T07:50:38.959765Z", 142130891, 0  
library/java, "2017-03-23T17:58:27.550146Z", 141992604, 0  
library/teamspeak, "2022-10-07T04:34:37.834185Z", 133473869, 0  
library/sentry, "2019-10-19T09:22:56.635131Z", 119808721, 0  
library/composer, "2023-07-11T06:20:56.652809Z", 118755741, 0  
library/matomo, "2023-08-03T10:00:37.39696Z", 115723232, 0  
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library/nats-streaming, "2023-07-14T00:25:47.036434Z", 93661862, 0  
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library/joomla, "2023-07-30T00:42:53.239884Z", 81368017, 0  
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library/fsharp, "2021-07-22T09:22:27.838134Z", 2883456, 0  
library/eggdrop, "2023-06-15T05:02:46.831895Z", 2766164, 0  
library/ibm-semeru-runtimes, "2023-08-03T03:29:43.506731Z", 2701719, 0  
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library/hola-mundo, "2019-01-04T16:43:25.400938Z", 1451151, 0  
library/known, "2019-06-13T05:46:14.801719Z", 1281218, 0  
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library/euleros, "2020-09-16T19:44:28.581242Z", 698689, 0

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library/sourcemap, "2021-05-22T09:34:30.675427Z", 646009, 0  
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library/hitch, "2023-07-28T09:36:26.186488Z", 377682, 0  
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library/satosha, "2023-07-28T23:36:52.77979Z", 198642, 3  
library/unit, "2023-08-04T01:43:45.726263Z", 45804, 3  
library/api-firewall, "2023-06-15T05:44:41.782116Z", 19728, 0  
library/spark, "2023-08-03T05:56:07.289538Z", 4717, 0  
datadog/agent, "2023-07-31T16:27:14.013097Z", 9623134655, 0  
grafana/grafana, "2023-08-04T10:48:32.145971Z", 4249821544, 0  
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bitnami/redis, "2023-08-03T17:46:46.999943Z", 3055057281, 0  
rancher/rancher-agent, "2023-08-03T21:27:25.823615Z", 2860092782, 0  
portainer/portainer, "2022-11-21T02:21:15.56905Z", 2845794326, 0  
bitnami/kubect1, "2023-08-03T19:12:00.583747Z", 2773132480, 0  
percona/percona-xtradb-cluster-operator, "2023-07-06T13:38:39.156097Z", 2358858675, 0  
google/cadvisor, "2021-08-16T02:57:04.047192Z", 1673842581, 0  
bitnami/mongodb, "2023-08-04T01:43:57.383355Z", 1624672736, 0  
grafana/promtail, "2023-08-04T11:36:36.533009Z", 1562355133, 0  
grafana/loki, "2023-08-04T11:36:38.312157Z", 1356237108, 0  
amazon/aws-for-fluent-bit, "2023-07-28T02:48:17.515195Z", 1207599819, 0  
newrelic/infrastructure-bundle, "2023-08-04T03:02:44.846943Z", 1225360535, 0  
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amazon/amazon-ecs-agent, "2023-07-25T15:14:38.012526Z", 1142098505, 0  
portainer/portainer-ce, "2023-07-06T23:30:03.693488Z", 1013203896, 0  
bitnami/external-dns, "2023-08-03T10:28:15.099001Z", 976782059, 0  
portainer/agent, "2023-07-06T23:29:48.215223Z", 950981232, 0  
amazon/aws-xray-daemon, "2023-04-24T20:50:09.320292Z", 925109038, 0  
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docker/ucp-auth, "2020-06-26T17:31:52.784737Z", 741381502, 0  
docker/aci-hostnames-sidecar, "2023-08-02T17:22:07.326385Z", 745893614, 0  
bitnami/rabbitmq, "2023-08-04T09:23:03.598291Z", 590657627, 0  
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