Q1. How many hackers are trying to get access to our servers? And how many attempts are there? Explain/define how you count distinct hackers.



```
source="tutorialdata.zip:*\secure.log" password_status="failed
password" (ip="*.*.*.*" OR invalid_user_ip="*.*.*.*")
| stats count by ip
| where count > 10
```

ANS: 185 hackers with 33,179 attempts. Assume that hackers tried more than 10 times to login with any password. So, query status "Failed password" with ip count more than 10 both valid and invalid user.

### Q2. What time do hackers appear to try to hack our servers?



source="tutorialdata.zip:\*\secure.log" password\_status="failed
password" (ip="\*.\*.\*.\*" OR invalid\_user\_ip="\*.\*.\*.\*")
| stats count by time
| sort count DESC

**ANS:** Mostly attempts on "Sun Aug 16 2023 18:06:30"

# Q3. Which server (mailsv, www1, www2, www3) sees the most attempts?



source="tutorialdata.zip:\*\secure.log" password\_status="failed
password" (ip="\*.\*.\*.\*" OR invalid\_user\_ip="\*.\*.\*.\*")
| stats count by time
| sort count DESC

ANS: "www1" with 8780 attempts

# Q4. What is the most popular account that hackers use to try to break in?



```
source="tutorialdata.zip:*\secure.log" password_status="failed
password" (ip="*.*.*.*" OR invalid_user_ip="*.*.*.*")
user!="invalid"
| stats count by user
| sort count DESC
```

ANS: "root" with 1493 attempts

## Q5. Can you find attempts to get access to sensitive information from our web servers? How many attempts were there?



source="tutorialdata.zip:\*\access.log" (status="403" OR
status="404")
| stats count by path

ANS: "/hidden" and "/passwords.pdf" seems to be the path to the sensitive information. Then query including error status 403 which means URL restriction or error status 404 which means URL not found, sum up within 141 attempts in total.

### Q6. What resource/file are hackers looking for?

ANS: "/hidden/anna nicole.html" and "/passwords.pdf"

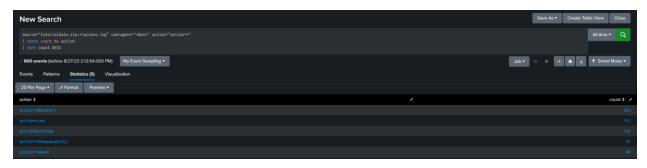
#### Q7. Can you find any bots crawling our websites?



source="tutorialdata.zip:\*\access.log" useragent="\*bot\*"
| stats count by useragent

ANS: Yes, as we can see the "Googlebot" and "YandexBot" from the query above.

## Q8. What are they doing on the site?



```
source="tutorialdata.zip:*\access.log" useragent="*bot*"
action="action=*"
| stats count by action
| sort count DESC
```

ANS: They mostly "addtocart" with 223 attempts