

Sentralisert logging på UiO

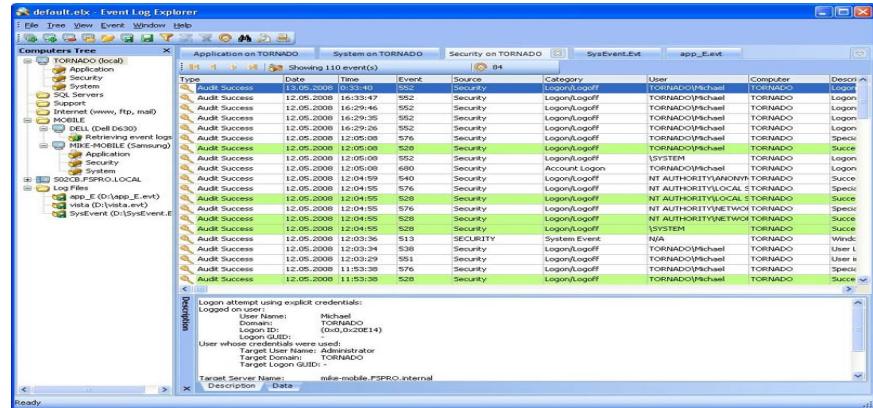
Rafael Martinez Guerrero

It-drift-gd-gid

IT-konferanse 2016

Universitetet i Oslo





```
  c_abi.un21.es [85.62.8.13] failed - POSSIBLE BREAK-IN ATTEMPT!
Sep 17 22:37:25 cerval sshd[27066]: Invalid user julia from 85.62.8.13
Sep 17 22:37:25 cerval sshd[27066]: error: Could not get shadow information for NOUSER
Sep 17 22:37:25 cerval sshd[27066]: Failed password for invalid user julia from 85.62.8.13 port 3
rt 35401 ssh2
Sep 17 22:37:26 cerval sshd[27068]: reverse mapping checking getaddrinfo for 85.62.8.13.stat1
c_abi.un21.es [85.62.8.13] failed - POSSIBLE BREAK-IN ATTEMPT!
Sep 17 22:37:26 cerval sshd[27068]: Invalid user julia123 from 85.62.8.13
Sep 17 22:37:26 cerval sshd[27068]: error: Could not get shadow information for NOUSER
Sep 17 22:37:26 cerval sshd[27068]: Failed password for invalid user julia123 from 85.62.8.13 port 3
33222 ssh2
Sep 17 22:37:27 cerval sshd[27070]: reverse mapping checking getaddrinfo for 85.62.8.13.stat1
c_abi.un21.es [85.62.8.13] failed - POSSIBLE BREAK-IN ATTEMPT!
Sep 17 22:37:27 cerval sshd[27070]: Invalid user a from 85.62.8.13
Sep 17 22:37:27 cerval sshd[27070]: error: Could not get shadow information for NOUSER
Sep 17 22:37:27 cerval sshd[27070]: Failed password for invalid user a from 85.62.8.13 port 3
33655 ssh2
Sep 17 22:37:30 cerval sshd[27072]: reverse mapping checking getaddrinfo for 85.62.8.13.stat1
c_abi.un21.es [85.62.8.13] failed - POSSIBLE BREAK-IN ATTEMPT!
Sep 17 22:37:30 cerval sshd[27072]: Invalid user julie from 85.62.8.13
Sep 17 22:37:30 cerval sshd[27072]: error: Could not get shadow information for NOUSER
Sep 17 22:37:30 cerval sshd[27072]: Failed password for invalid user julie from 85.62.8.13 port 3
33488 ssh2
Sep 17 22:37:31 cerval sshd[27074]: reverse mapping checking getaddrinfo for 85.62.8.13.stat1
c_abi.un21.es [85.62.8.13] failed - POSSIBLE BREAK-IN ATTEMPT!
Sep 17 22:37:31 cerval sshd[27074]: Invalid user julie123 from 85.62.8.13
Sep 17 22:37:31 cerval sshd[27074]: error: Could not get shadow information for NOUSER
Sep 17 22:37:31 cerval sshd[27074]: Failed password for invalid user julie123 from 85.62.8.13 port 3
35041 ssh2
Sep 17 22:37:32 cerval sshd[27076]: reverse mapping checking getaddrinfo for 85.62.8.13.stat1
c_abi.un21.es [85.62.8.13] failed - POSSIBLE BREAK-IN ATTEMPT!
Sep 17 22:37:32 cerval sshd[27076]: Invalid user a from 85.62.8.13
Sep 17 22:37:32 cerval sshd[27076]: error: Could not get shadow information for NOUSER
Sep 17 22:37:32 cerval sshd[27076]: Failed password for invalid user a from 85.62.8.13 port 3
57577 ssh2
Sep 17 22:37:32 cerval sshd[27078]: reverse mapping checking getaddrinfo for 85.62.8.13.stat1
c_abi.un21.es [85.62.8.13] failed - POSSIBLE BREAK-IN ATTEMPT!
Sep 17 22:37:32 cerval sshd[27078]: Invalid user june from 85.62.8.13
Sep 17 22:37:32 cerval sshd[27078]: error: Could not get shadow information for NOUSER
Sep 17 22:37:32 cerval sshd[27078]: Failed password for invalid user june from 85.62.8.13 port 3
35950 ssh2
Sep 17 22:37:33 cerval sshd[27080]: reverse mapping checking getaddrinfo for 85.62.8.13.stat1
c_abi.un21.es [85.62.8.13] failed - POSSIBLE BREAK-IN ATTEMPT!
Sep 17 22:37:33 cerval sshd[27080]: Invalid user june123 from 85.62.8.13
Sep 17 22:37:33 cerval sshd[27080]: error: Could not get shadow information for NOUSER
Sep 17 22:37:33 cerval sshd[27080]: Failed password for invalid user june123 from 85.62.8.13 port 3
35950 ssh2
Sep 17 22:37:34 cerval sshd[27082]: reverse mapping checking getaddrinfo for 85.62.8.13.stat1
c_abi.un21.es [85.62.8.13] failed - POSSIBLE BREAK-IN ATTEMPT!
Sep 17 22:37:34 cerval sshd[27082]: Invalid user a from 85.62.8.13
Sep 17 22:37:34 cerval sshd[27082]: error: Could not get shadow information for NOUSER
Sep 17 22:37:34 cerval sshd[27082]: Failed password for invalid user a from 85.62.8.13 port 3
42423 ssh2
Sep 17 22:37:35 cerval sshd[27084]: reverse mapping checking getaddrinfo for 85.62.8.13.stat1
c_abi.un21.es [85.62.8.13] failed - POSSIBLE BREAK-IN ATTEMPT!
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```
[root@ontest log]# tail -f /var/log/messages
May 18 11:06:41 ontest dhcpcd: DHCPINFORM from 10.8.9.21 via 10.8.9.1
May 18 11:06:41 ontest dhcpcd: DHCPACK to 10.8.9.21 (50:e5:49:2e:cb:65) via eth0
May 18 11:06:42 ontest dhcpcd: DHCPDISCOVER from 44:8a:5b:60:01:e0 via 10.2.39.10: network
May 18 11:06:42 ontest dhcpcd: DHCPINFORM from 10.8.5.107 via 10.8.5.1
May 18 11:06:42 ontest dhcpcd: DHCPACK to 10.8.5.107 (a4:1f:72:63:7c:8b) via eth0
May 18 11:06:43 ontest dhcpcd: DHCPINFORM from 10.8.6.116 via 10.8.6.1
May 18 11:06:43 ontest dhcpcd: DHCPACK to 10.8.6.116 (00:1c:c0:33:ba:cd) via eth0
May 18 11:06:43 ontest kernel: printk: 1 messages suppressed.
May 18 11:06:43 ontest kernel: Neighbour table overflow.
May 18 11:06:45 ontest dhcpcd: DHCPINFORM from 10.8.18.28 via 10.8.18.1: unknown subnet mask
May 18 11:06:49 ontest kernel: printk: 1 messages suppressed.
May 18 11:06:49 ontest kernel: Neighbour table overflow.
May 18 11:06:52 ontest dhcpcd: DHCPINFORM from 10.8.12.30 via 10.8.12.1
```

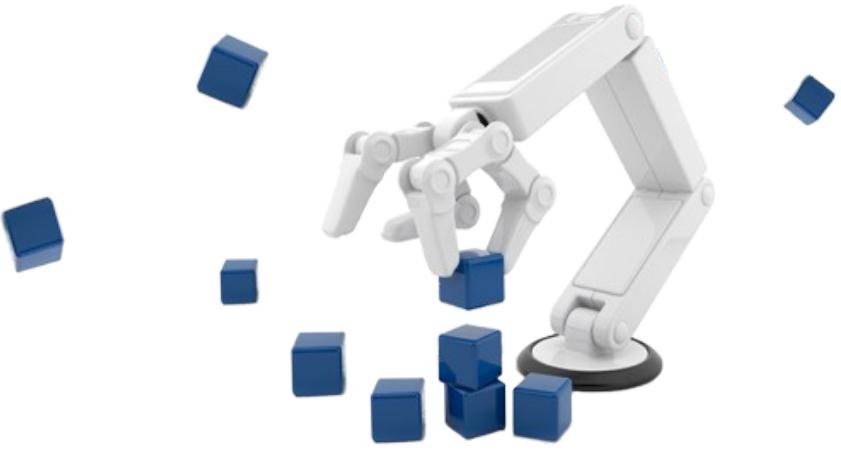


Search 









STANDARDS

ELK stack



logstash



elasticsearch.



Kibana

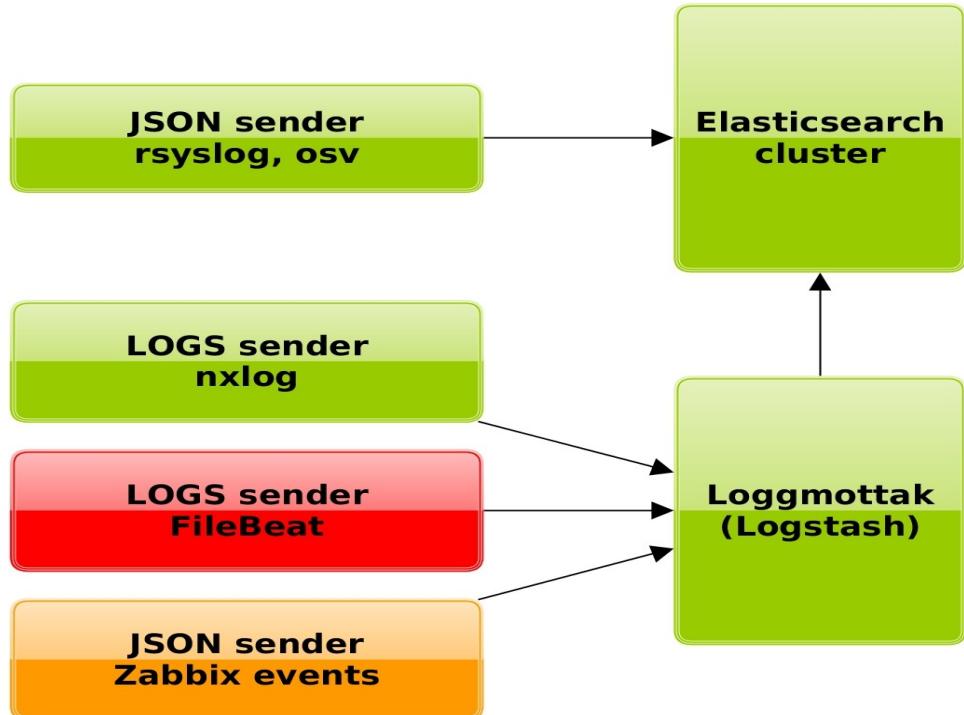


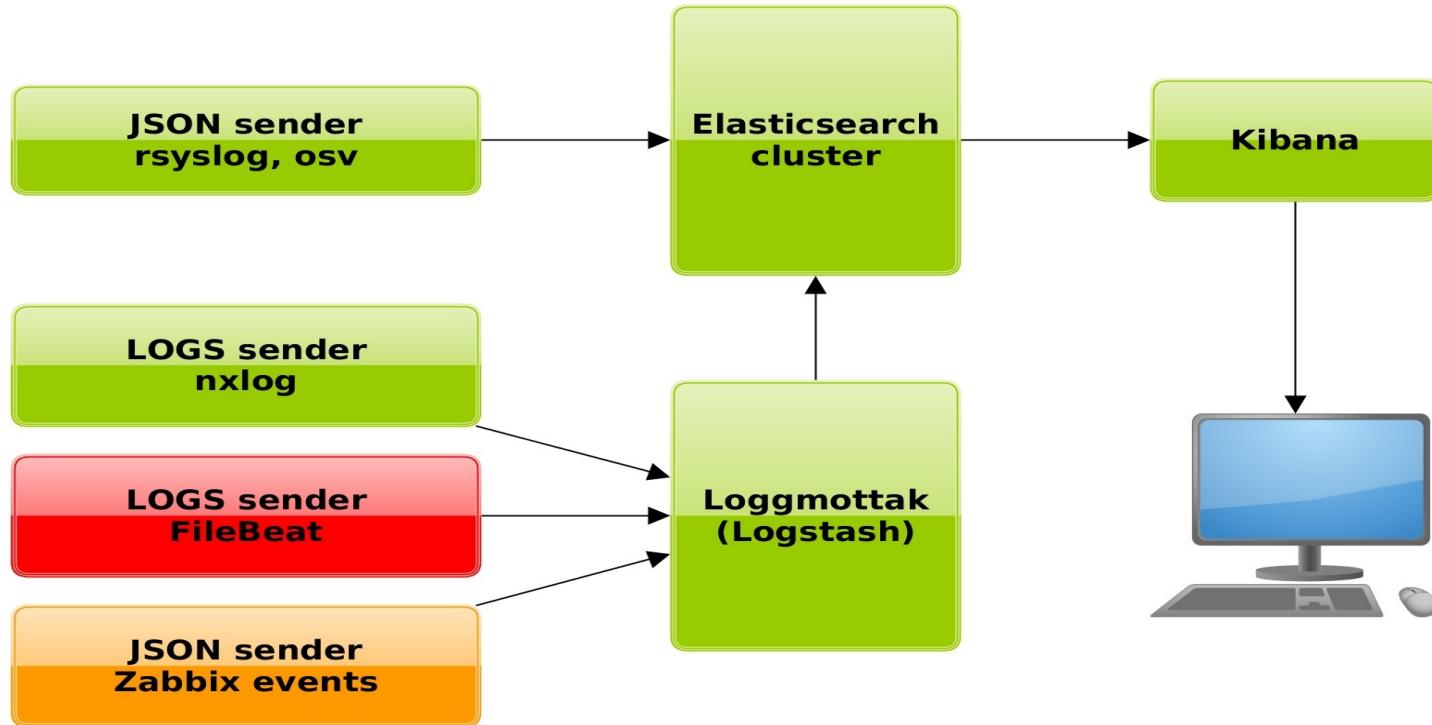
**Elasticsearch
cluster**

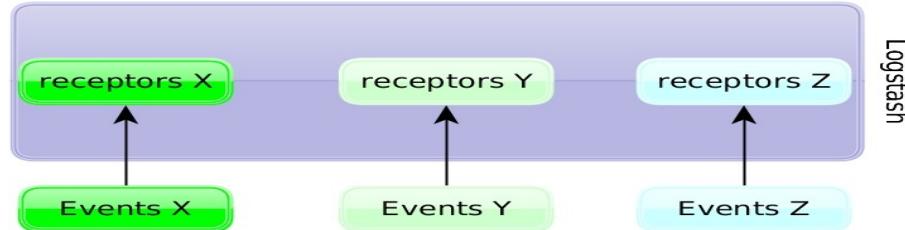
Elasticsearch
cluster

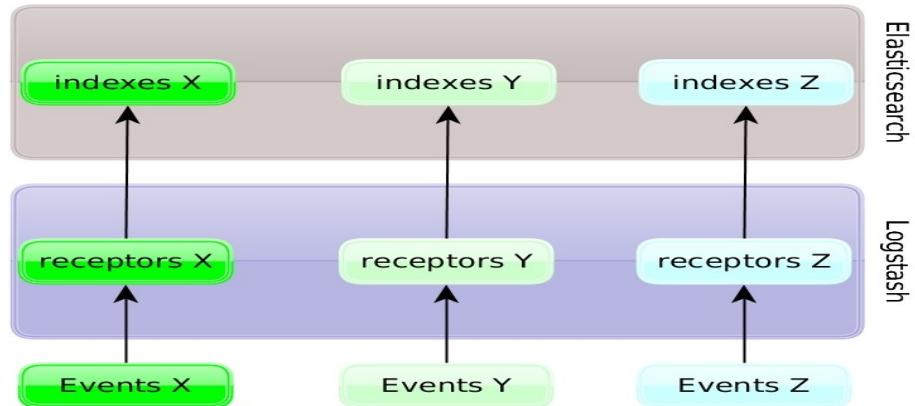
Loggmottak
(Logstash)

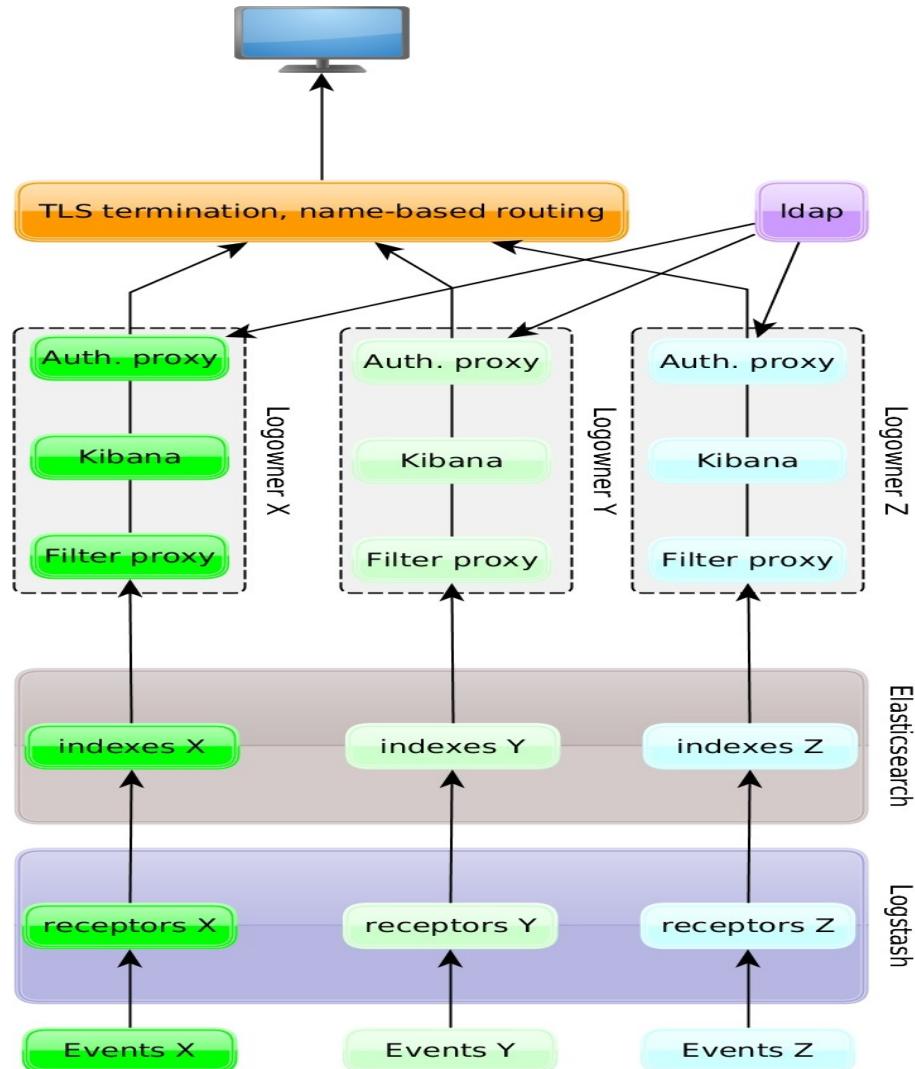






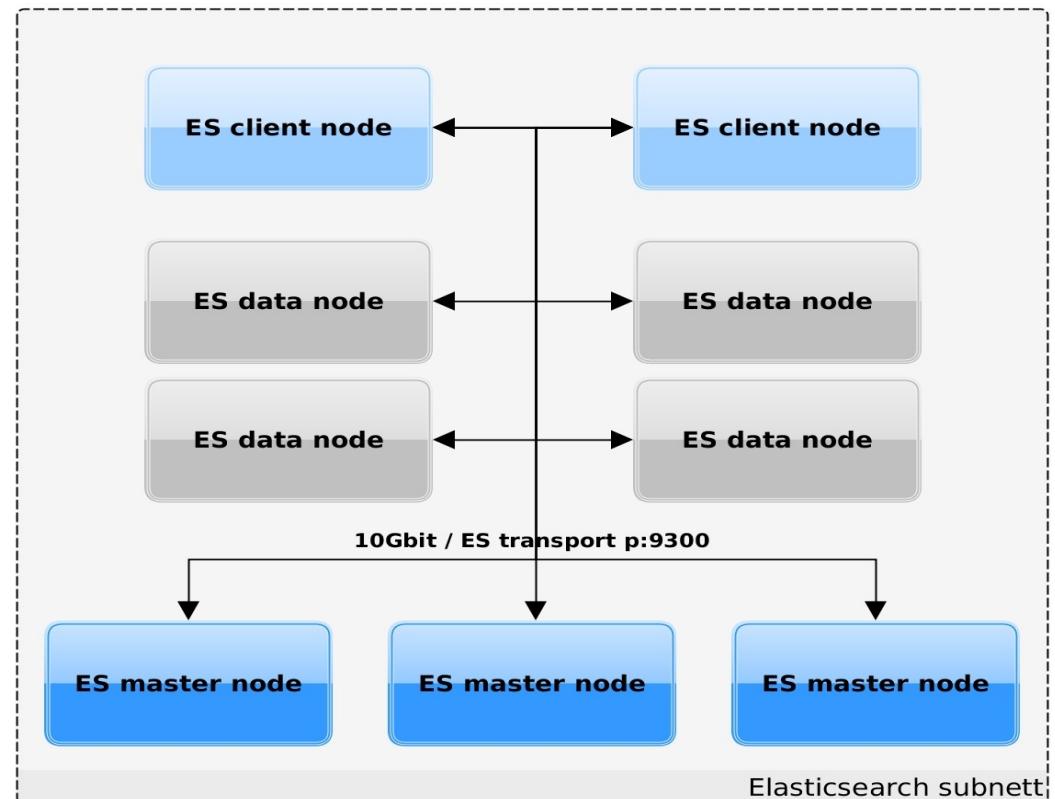






Elasticsearch

- SSD 1.4TB x 4 = 5.6TB
- 256GB ram – håndtering av indekser
- 128GB ram – håndtering av spørninger
- 3 master noder
- Bonding - 2 x 10Gbit



$$\text{INDEX} = \text{SHARD-1} + \text{SHARD-2} + \text{SHARD-3} + \text{SHARD-4}$$





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