

Platform Intelligence



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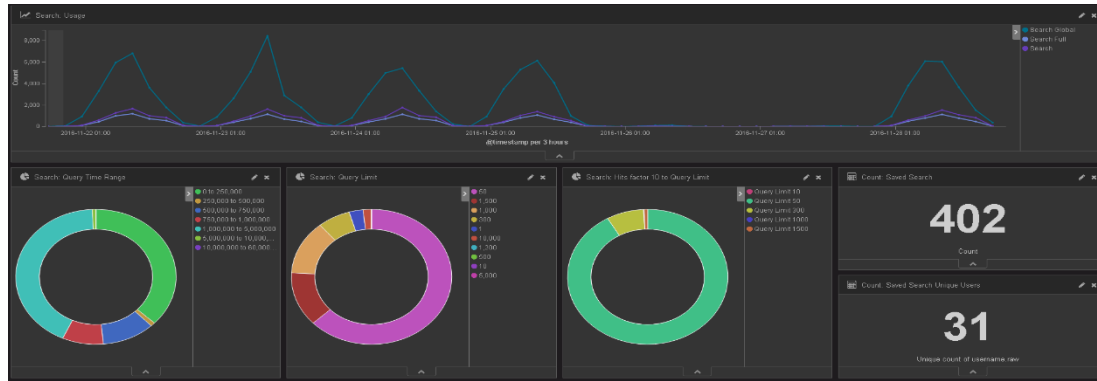


DIGITALIZATION FOR SUSTAINABLE PRODUCT DEVELOPMENT AND MANUFACTURE

PLATFORM INTELLIGENCE

Walk-through

- ❑ **What are the benefits?**
- ❑ Platform Intelligence: definition
- ❑ Platform: complex and dynamic system
- ❑ Foundation: information availability
- ❑ Intelligence: information gathering
- ❑ Manageable



The benefits

Keep learning - Learn along the way

Know your users

- Understand your users and how they use the system
- Follow patterns and improve efficiency: application/processes
- Be proactive and spend efforts where it brings most value

→ **Enhanced End User Experience**

Know your system

- Performance: Perform analysis, investigations and identify anomalies
- Availability: Monitor usage and ensure minimized down-time in case of issues
- Manageability (*the quality of being easy or possible to deal with*) increased.

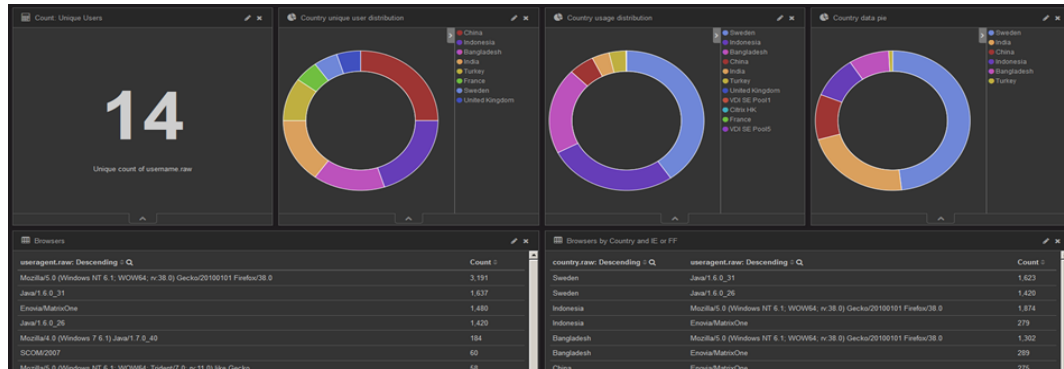
→ **Well performing system**

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Definition

Continuous Information flow in the right context

Intelligence: Conscious Information gathering

- Availability of Information
- Selected, filtered then Centralized
- Continuous feedback loops

About a platform: 3DExperience

- Complex
- Dynamic System

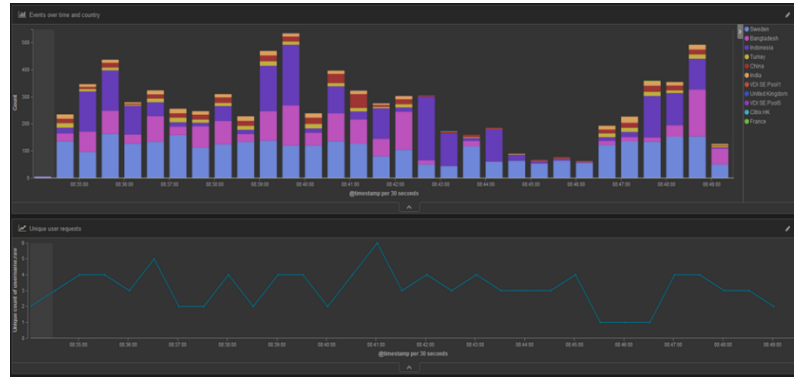
Presented in a manageable way

- Easy to assess / Understand
- In the right context

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The Platform

is Complex & Dynamic

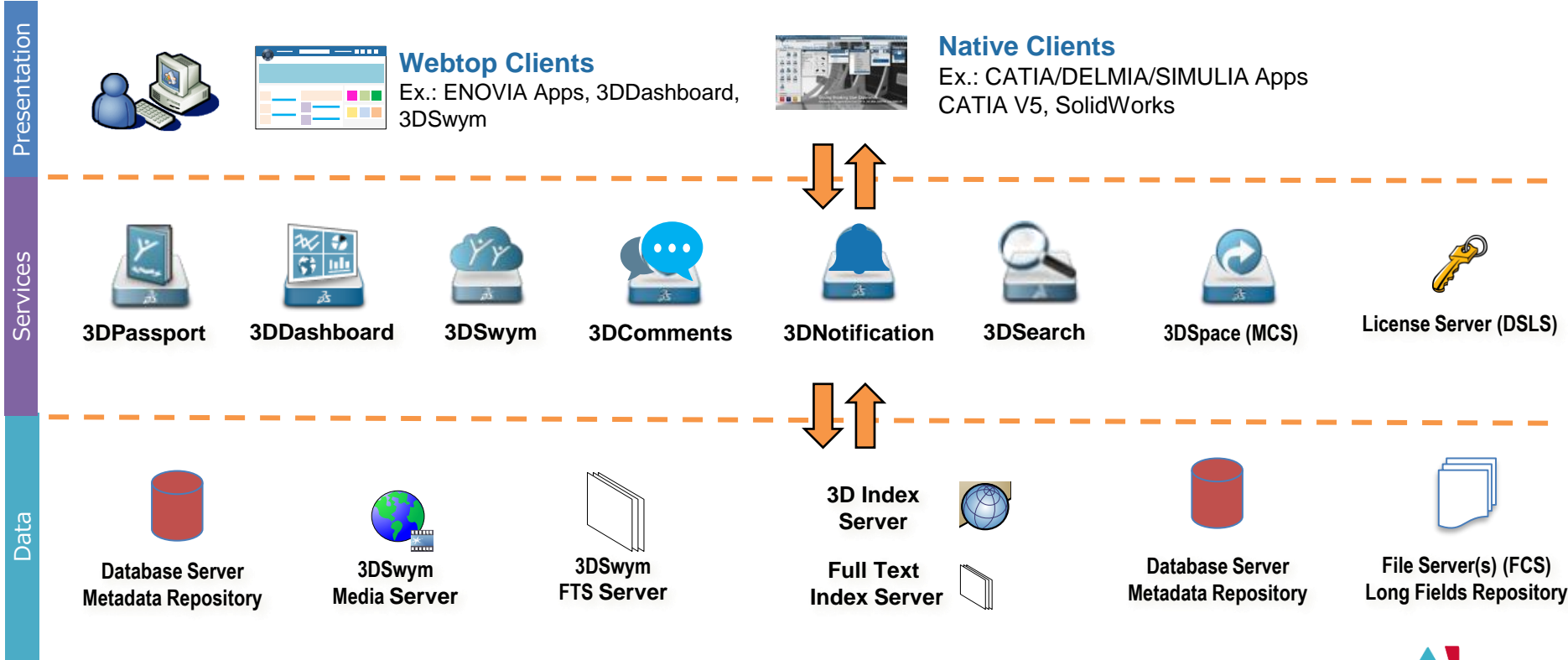
Complex Platform

- Multi servers, components, applications (services)

Dynamic System (key factors)

- Database
- Network WAN/LAN
- Infrastructure Design
- Application design
- Data
- User actions and behaviours
- ...

Growing Platform Complexity



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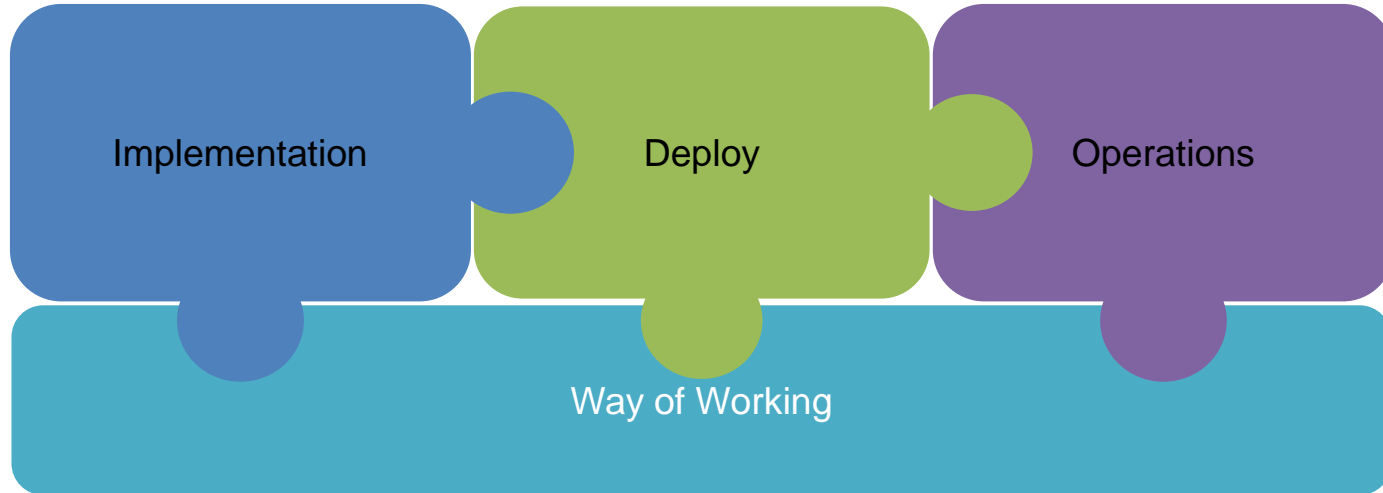
❑ Intelligence: information gathering

❑ Manageable

```
Time ▾          _source
▶ September 20th 2019, 17:13:58.738
  type_main: srvmon nonHeapMemoryUsed: 310,516,688 input.type: log gcCount_PS
  Scavenge: 21 nonDaemonThreadCount: 26 serverInstance: products17x-demo.technia.c
  om_3dspace gcTimePerTime_PS MarkSweep: 0 committedVirtualMemorySize: 2,351,181,82
  4 gcCountPerTime_PS Scavenge: 0 gcCountPerTime_PS MarkSweep: 0 heapMemoryInit: 1,
  610.612.736 ecTime PS MarkSweep: 61 threadCount: 472 tvpe: srvmon ivm metric
```

Foundation

Information Availability



→ A strong foundation provides a sea of information

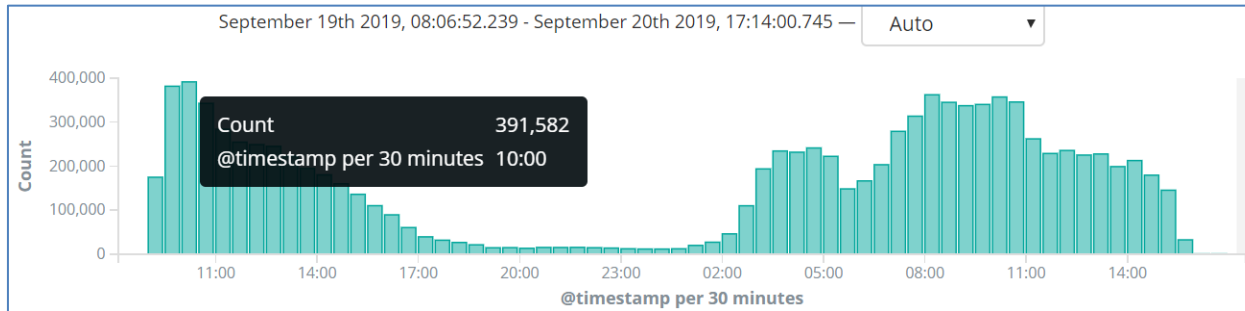
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❑ **Intelligence: information gathering**

❑ **Manageable**



Intelligence

 **Server Monitor** with Elastic Stack

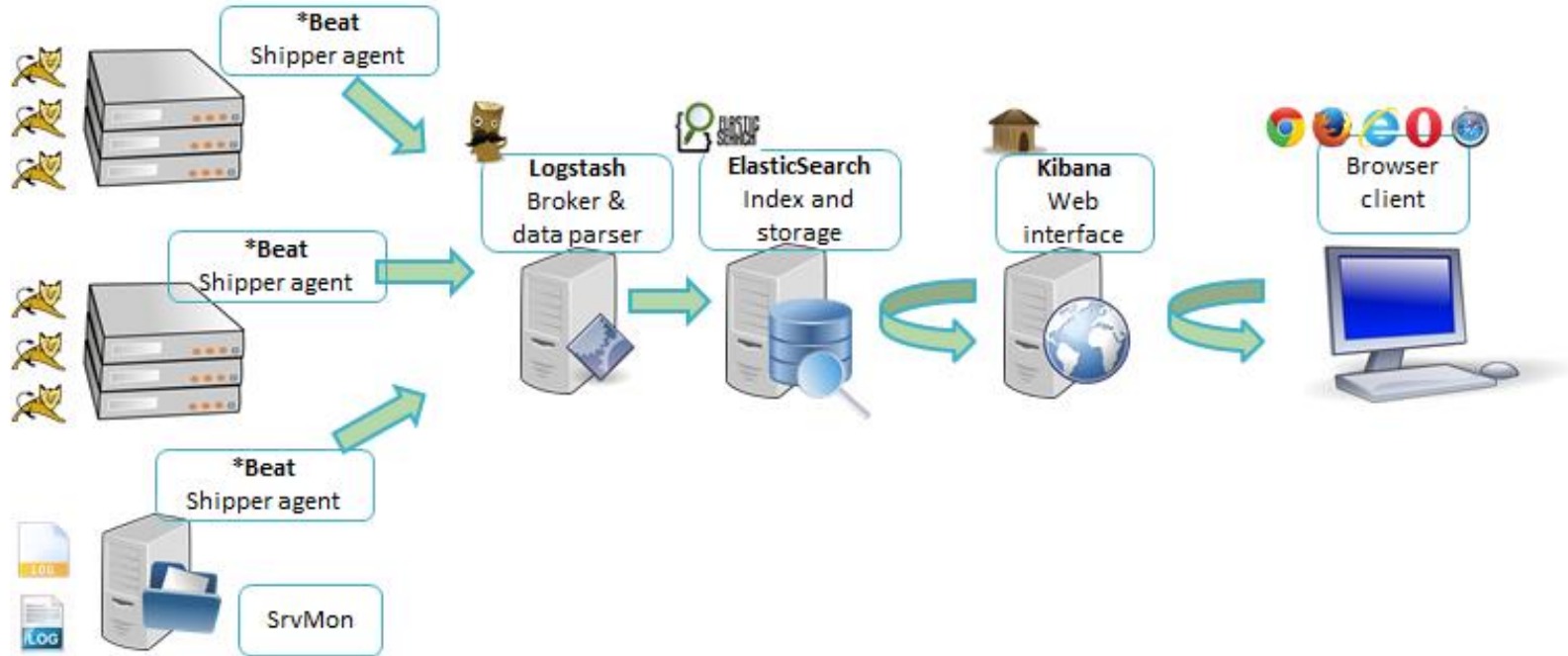
Server Monitor: sampling tool provided by TECHNIA that retrieve then presents key selected 3DEXperience metrics

"Elastic Stack" is (formerly the "ELK stack") the combination of Elasticsearch, Logstash, and Kibana with Server Monitor

- **Logstash** is an open source, server-side data processing pipeline that ingests data from a multitude of sources simultaneously, transforms it, and then sends it to Elasticsearch
- **Elasticsearch** is a search engine based on Lucene. *It provides a distributed, multitenant-capable full-text search engine with an HTTP web interface and schema-free JSON documents*
- **Kibana** is an open source data visualization plugin for Elasticsearch. *It provides visualization capabilities on top of the content indexed on an Elasticsearch cluster*

Monitoring

Flow: Server Monitor with Elastik Stack



PLATFORM INTELLIGENCE

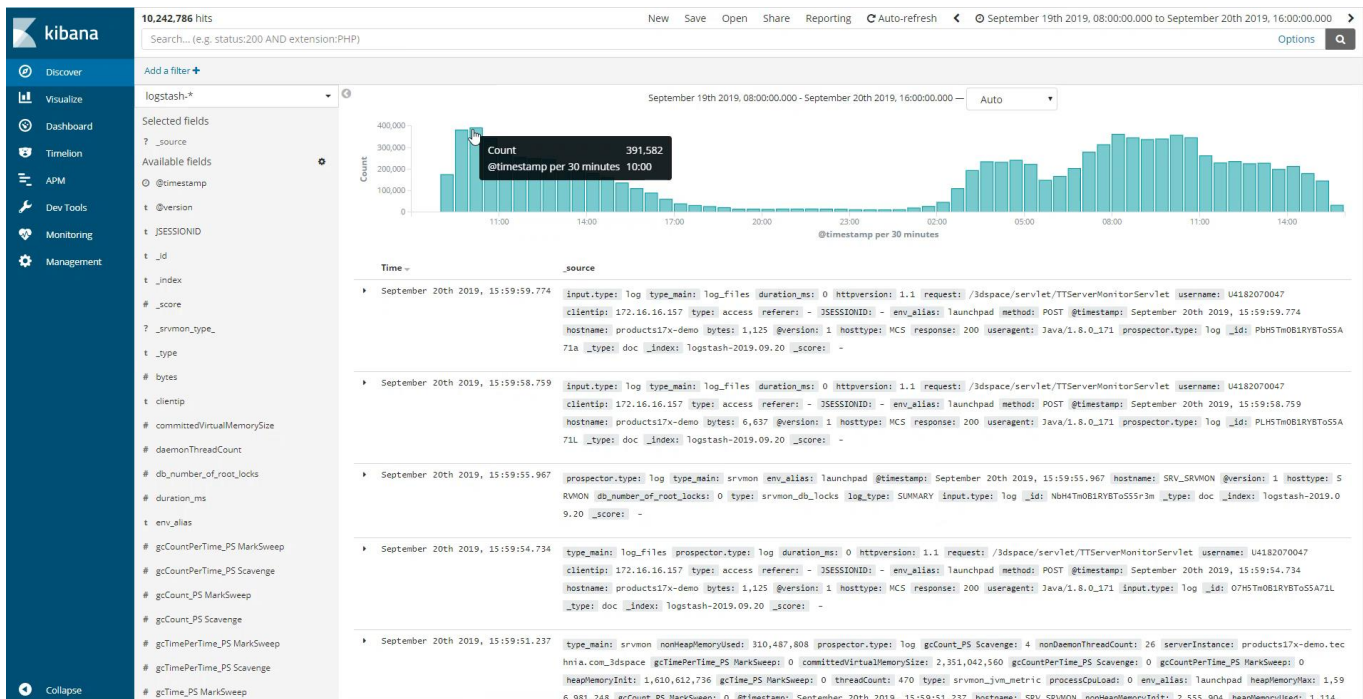
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Made accessible

Intelligence made accessible

Kibana





GO EXPLORE

Innovate new solutions
and develop new concepts



KEEP LEARNING

Every day is a chance
to discover something new



WORK TOGETHER

As an extension of
Our client's team



BUILD TRUST

With a premium service that
Exceeds expectations

Q & A



Platform Intelligence

Improving quality and performance
through continuous monitoring



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