



#Agile
#Microservices
#Devops
#Cloudnative

Digitale Transformation in der Praxis

Karlsruher Entwicklertag 2018

Matthias Sauer
PROMATIS software GmbH
Karlsruhe, 21. Juni 2017



Exzellente Geschäftsprozesse und Oracle Digitalisierungslösungen

Strategie- & Business Consulting | Business Process Management | Unternehmensapplikationen

PROMATIS auf einen Blick

- Inhabergeführtes Unternehmen
- Sitz: Ettlingen (TechnologieRegion Karlsruhe), Deutschland
- Ländergesellschaften PROMATIS Gruppe:
 - Deutschland (Ettlingen, Hamburg, Berlin)
 - Österreich (Wien)
 - Schweiz (Zürich)
 - USA (Denver, CO)
- 150+ Mitarbeiter
- Seit Gründung 1994 wirtschaftlich erfolgreich (EBIT-positiv)
- Gesamterlöse 2017: € 16,4 Mio., Plan 2018: € 18 Mio.
- Globales Partner- und Innovationsnetzwerk
- Oracle Applikations- und Technologiepartner seit 1994

Erfolgsfaktoren

- **Partnerschaft und Vertrauen**
- Business-, Digitalisierungs- und umfassende Oracle Excellence aus einer Hand
- Vollständiges Lösungsportfolio: ERP, EPM, SCM, PPM, CX, HCM, GRC
- Technologiekompetenz: Data Analytics, Integration, BPM, SOA, IoT, AI, ...
- Best Practice-Produkte und -Lösungen
- „Award winning“ Projekt-Excellence
- Internationale Erfahrung (20+ Länder)

Erfolge

- **100% Projekterfolgsquote seit Gründung**
- Oracle EMEA-Partnerpionier in Applications, Software as a Service (SaaS), BPM, SOA
- Weltweiter Pionier der prozessorientierten Einführung von Oracle Applikationen
- Mittelstandsexperte für ERP, SCM, EPM, HCM, CX
- CIO Applications 2017: TOP 25 SUPPLY CHAIN SOLUTION PROVIDERS
- Oracle Excellence Award 2016 (SaaS - EMEA), 2015 (Industry - Germany)

Ausgewählte Kunden



#Agile

Software Development

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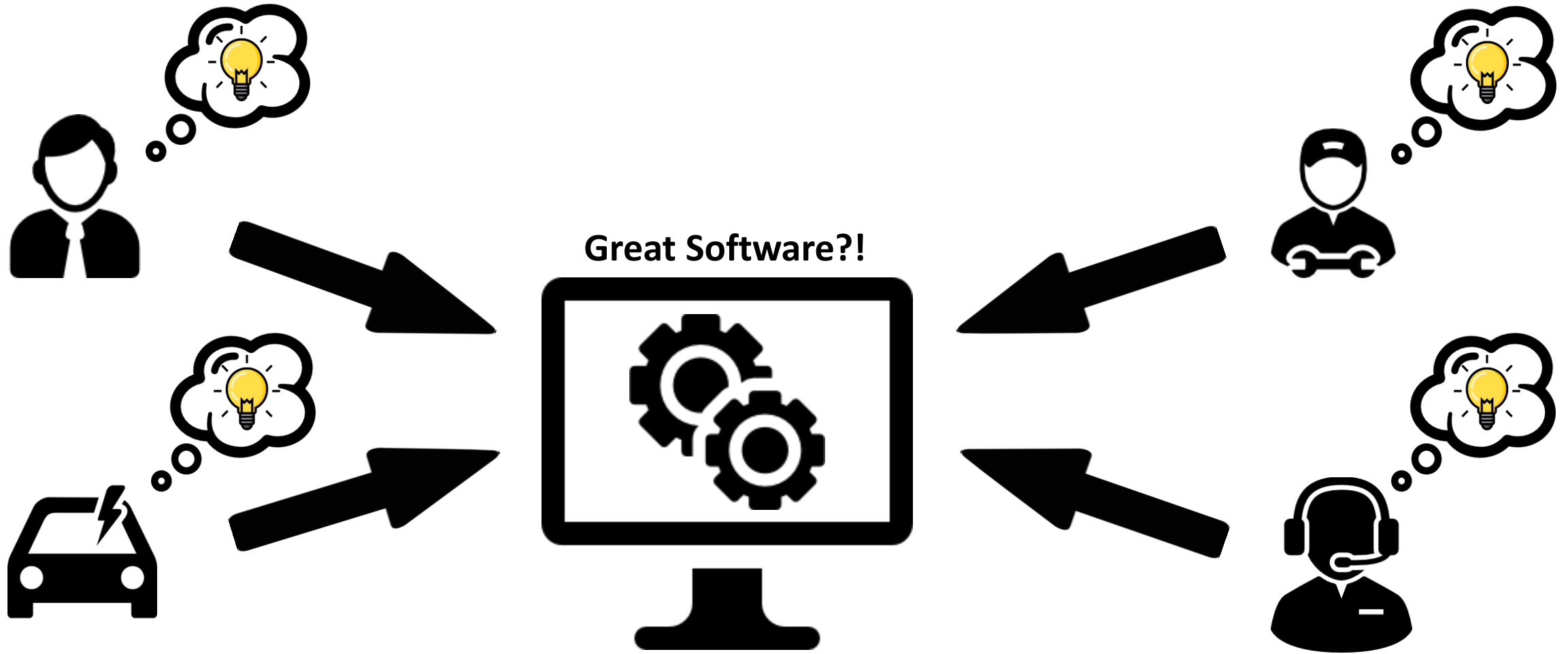
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Great Software?!



#Agile

Software Features



#Agile

Product Owner

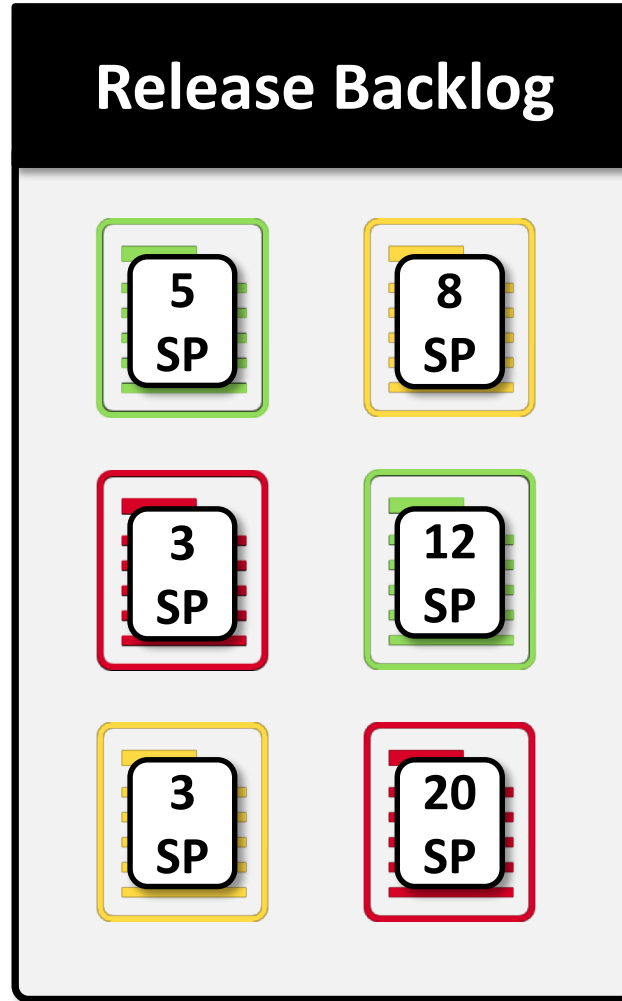
The Ideal Product Owner

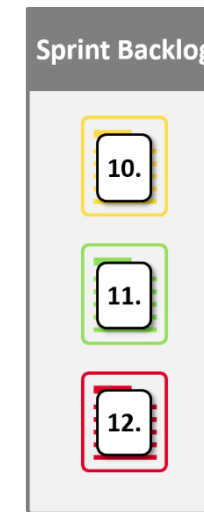
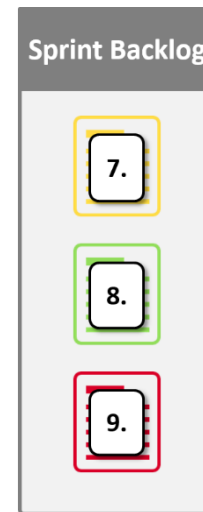
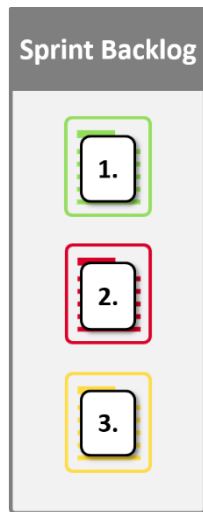
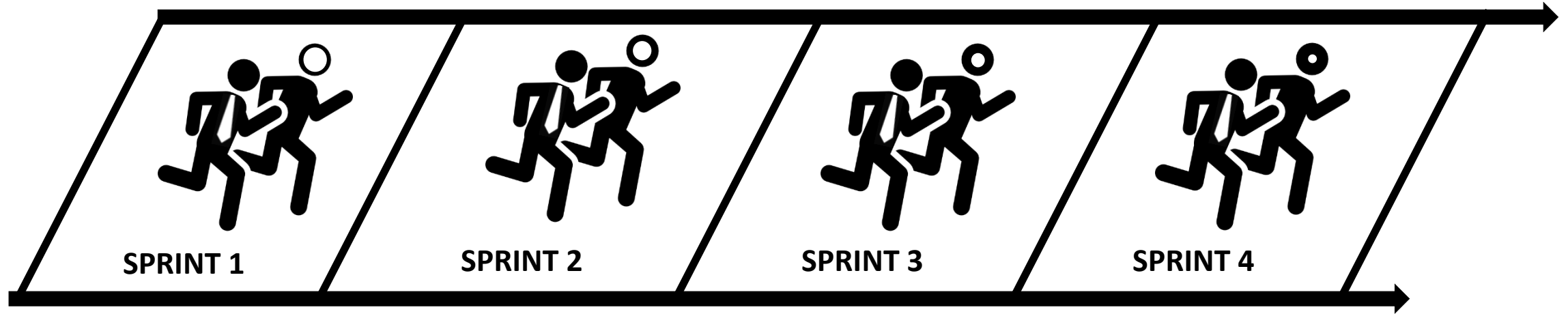


Development Team



Release Backlog





#Agile

Scrum Master



Agile



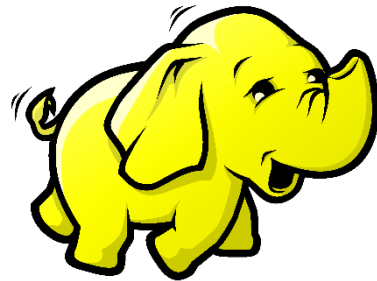


#Microservices

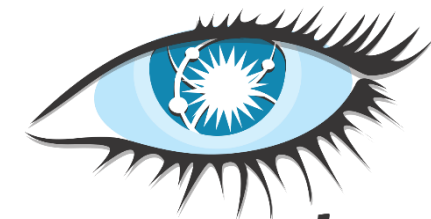
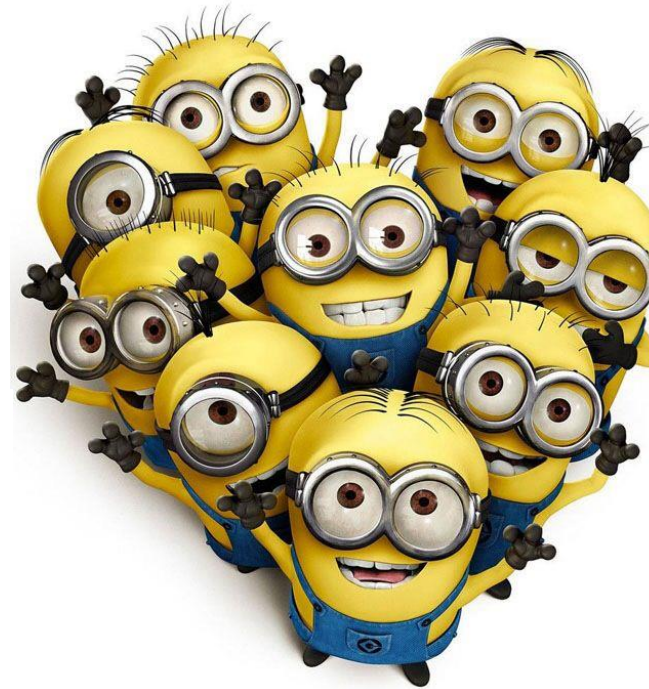
Softwarearchitektur für Scrum Teams



ORACLE
Application Express



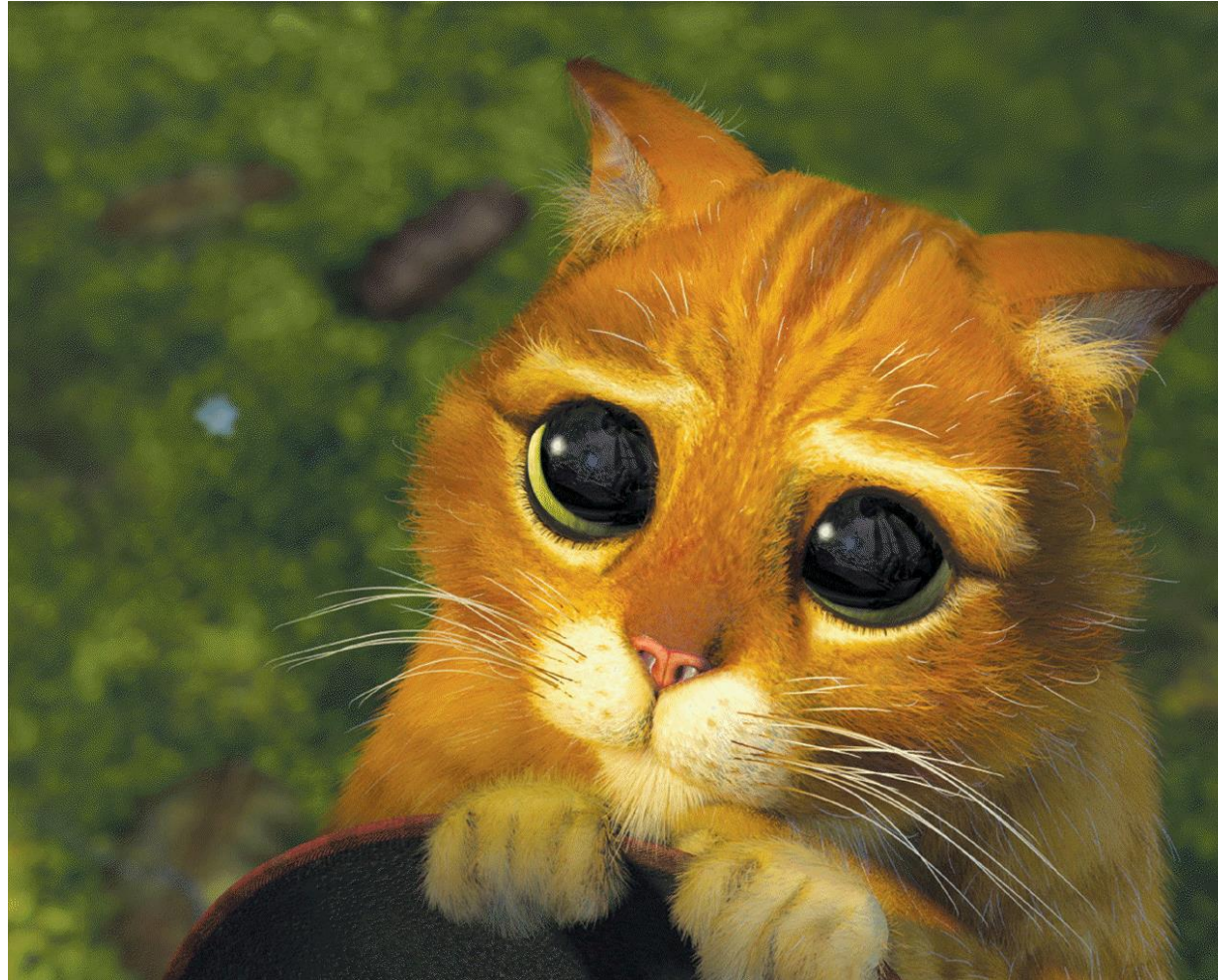
elasticsearch



cassandra

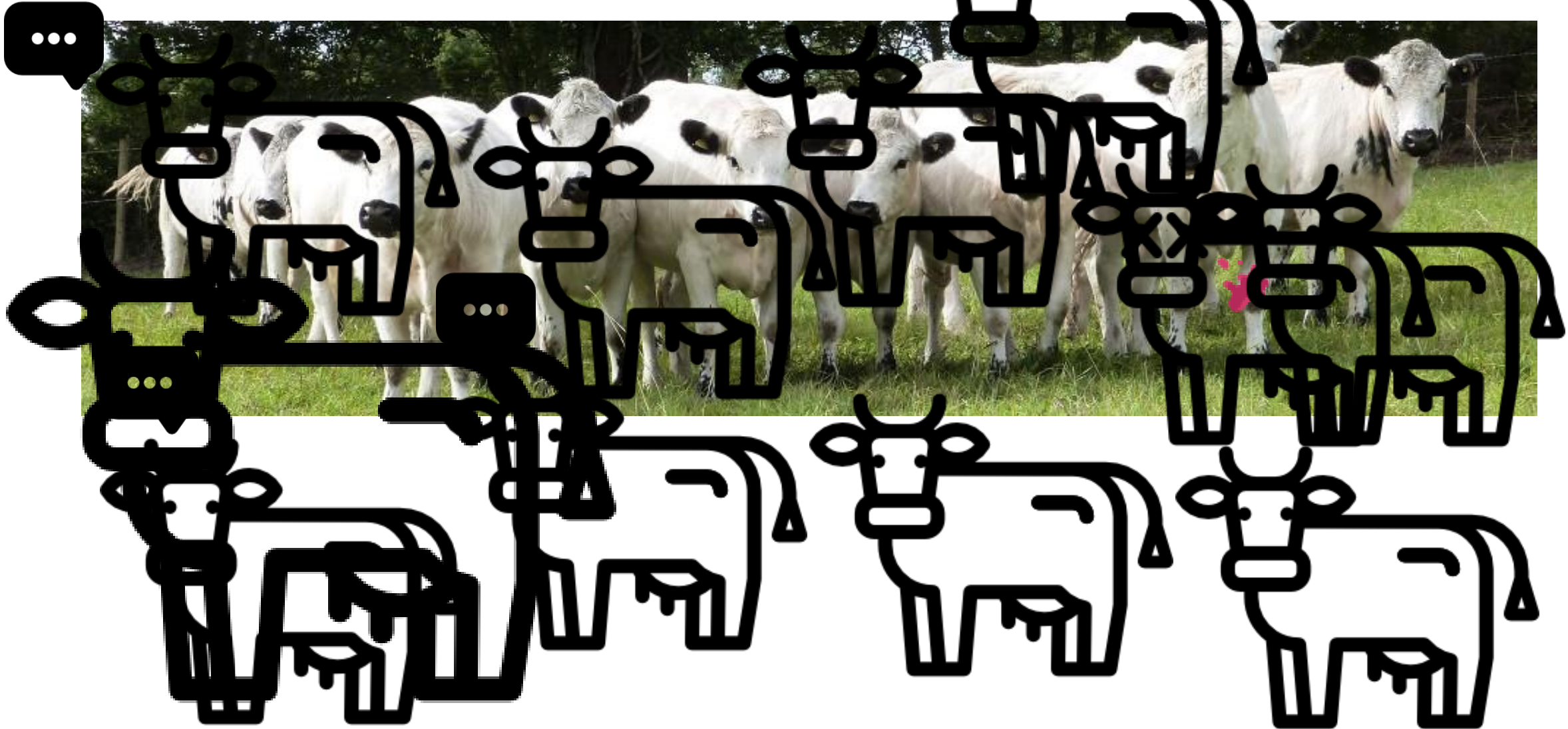
#Microservices

Pet



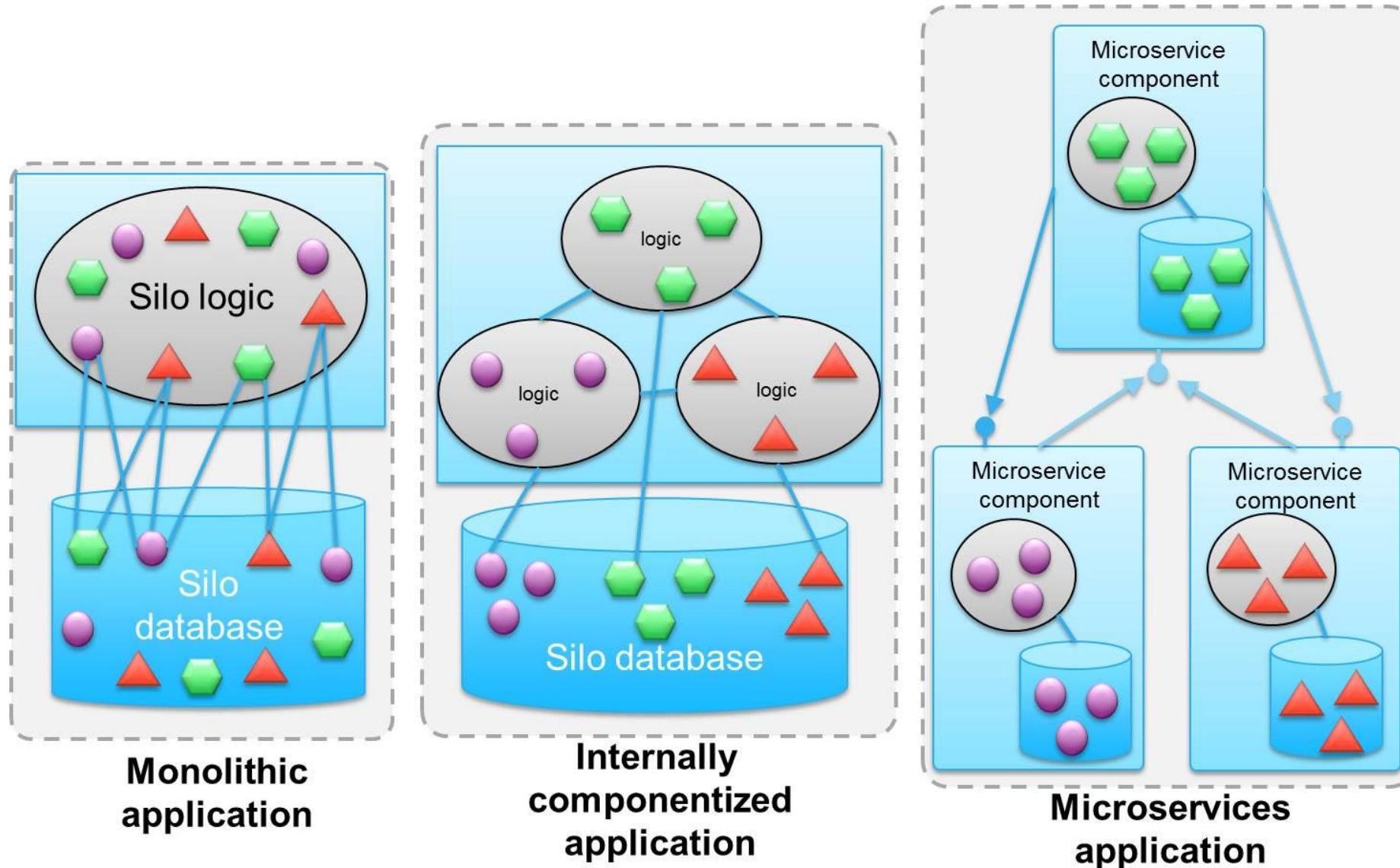
#Microservices

vs. Cattle



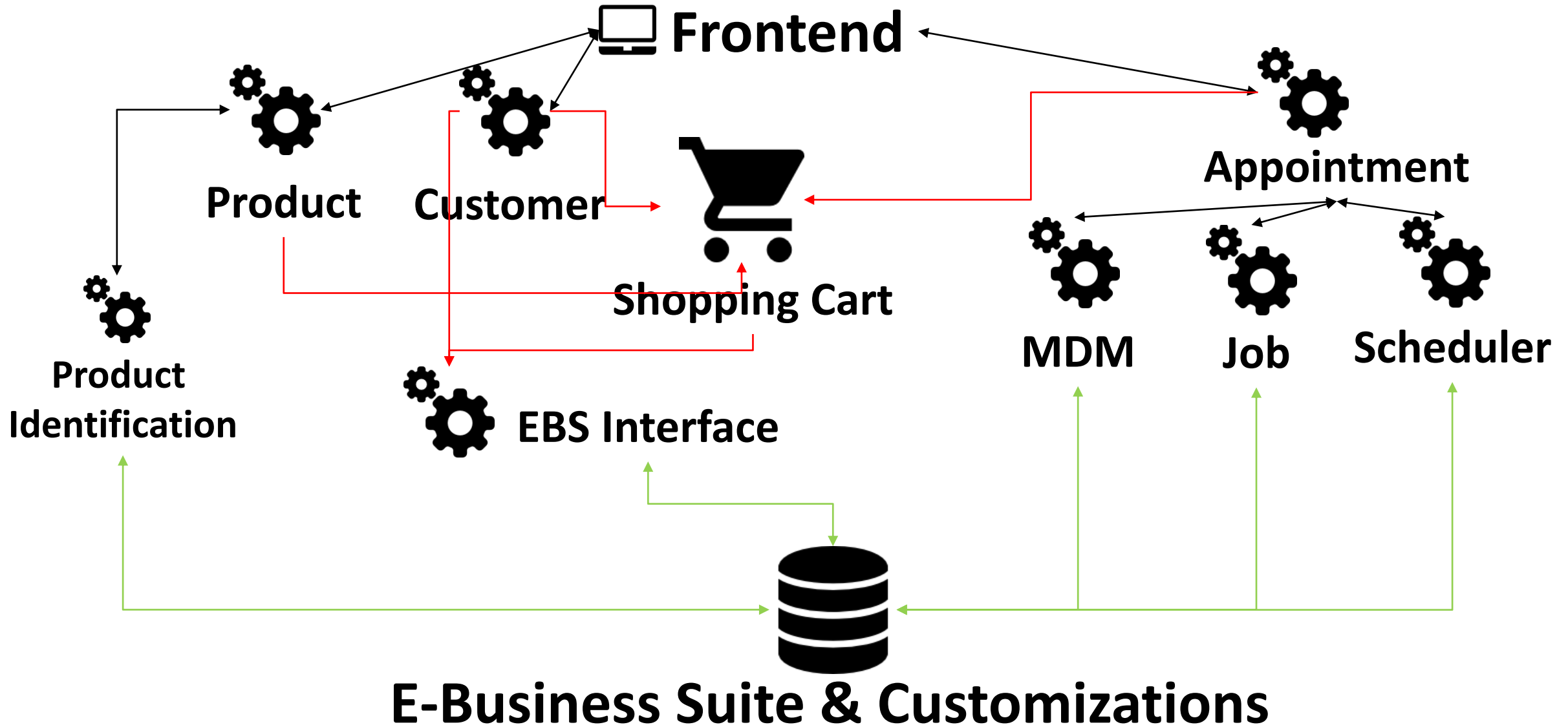
#Microservices

Charakteristiken eines Microservice




#Microservices

Split the Monolith



#Microservices

Microservices implementieren mit Spring Boot



```
<parent>
<groupId>org.springframework.boot</groupId>
<artifactId>spring-boot-starter-parent</artifactId>
</parent>

package hello;

@EnableAutoConfiguration
public class SampleController {

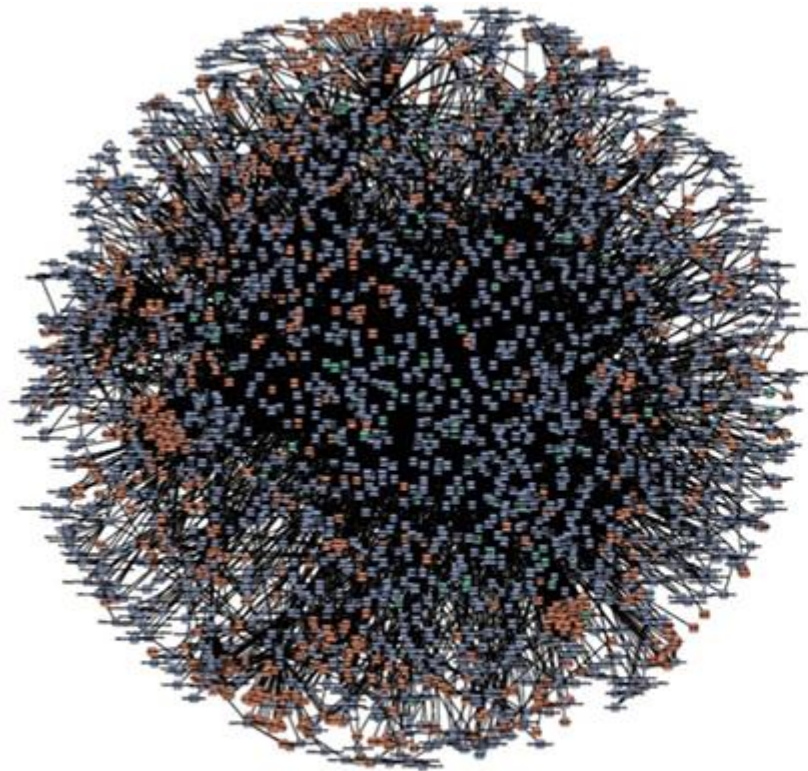
    public static void main(String[] args) throws Exception {
        SpringApplication.run(SampleController.class, args);
    }
}
```

Ma

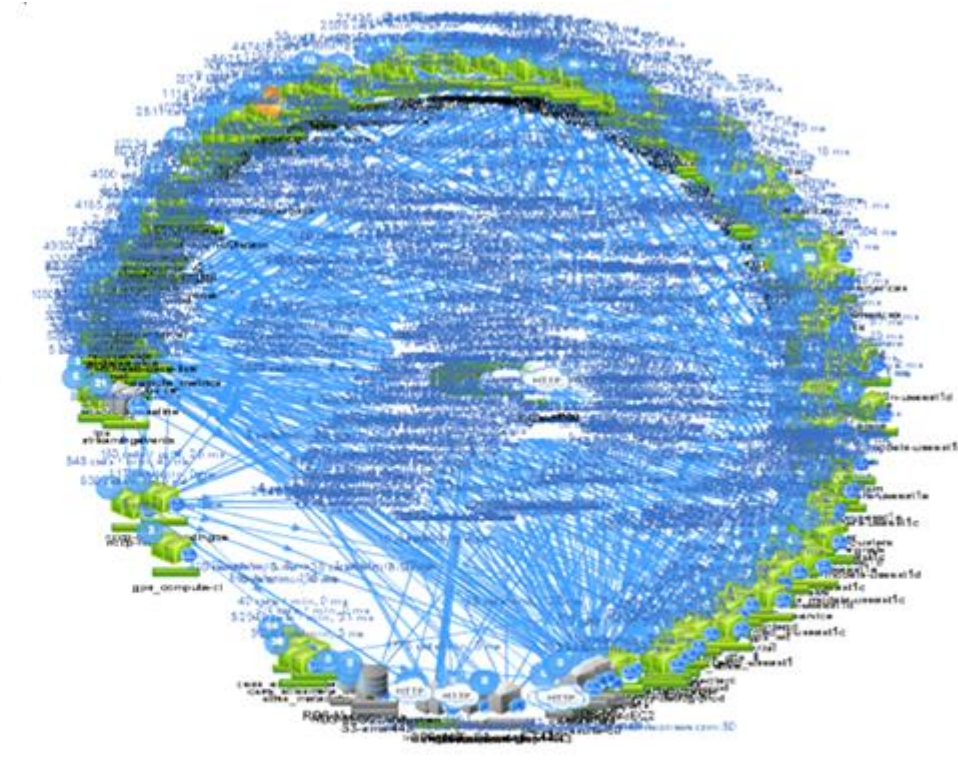


#Microservices

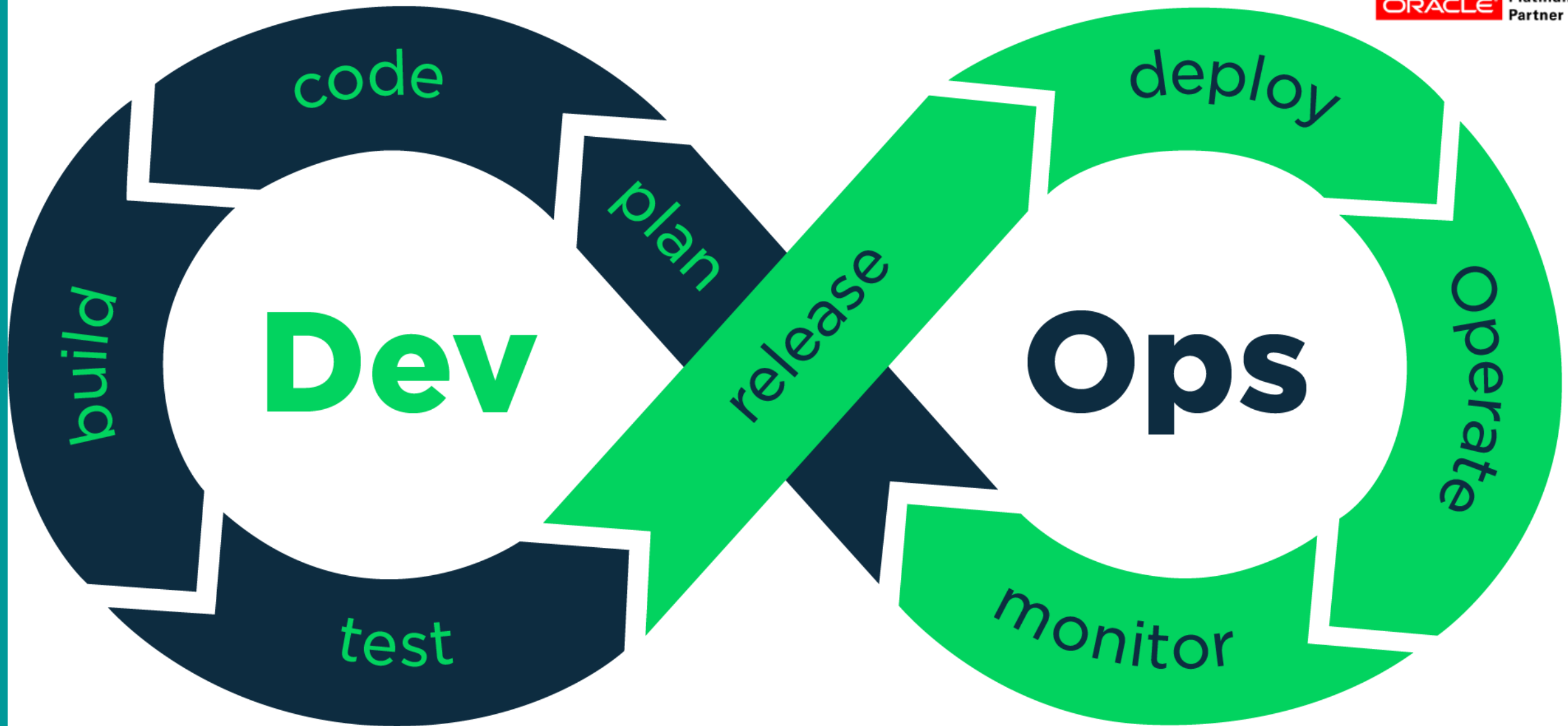
Death Star Topology



amazon.com



NETFLIX

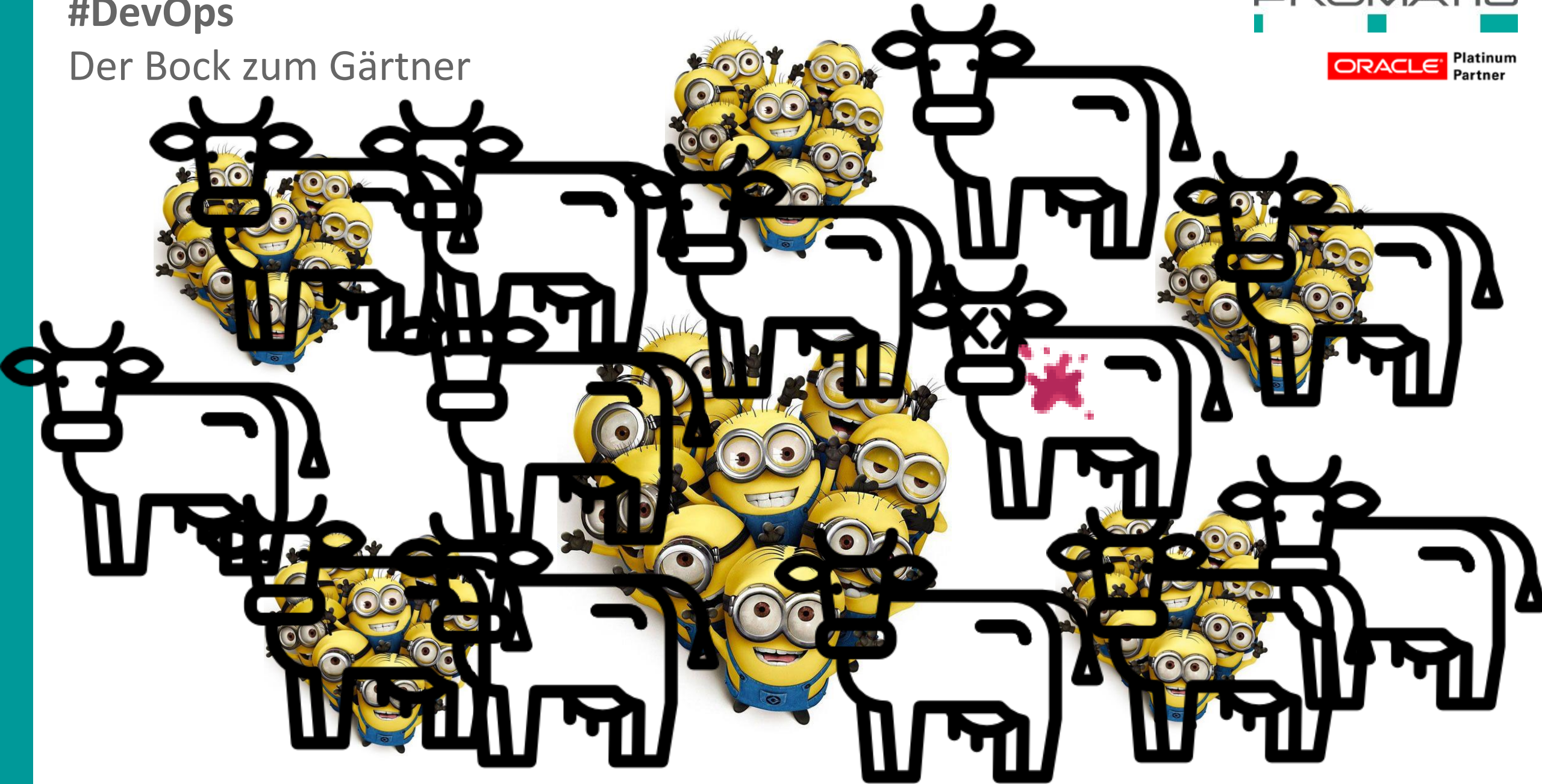


#DevOps

Der Bock zum Gärtner

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#DevOps

Die Herde in den Griff kriegen

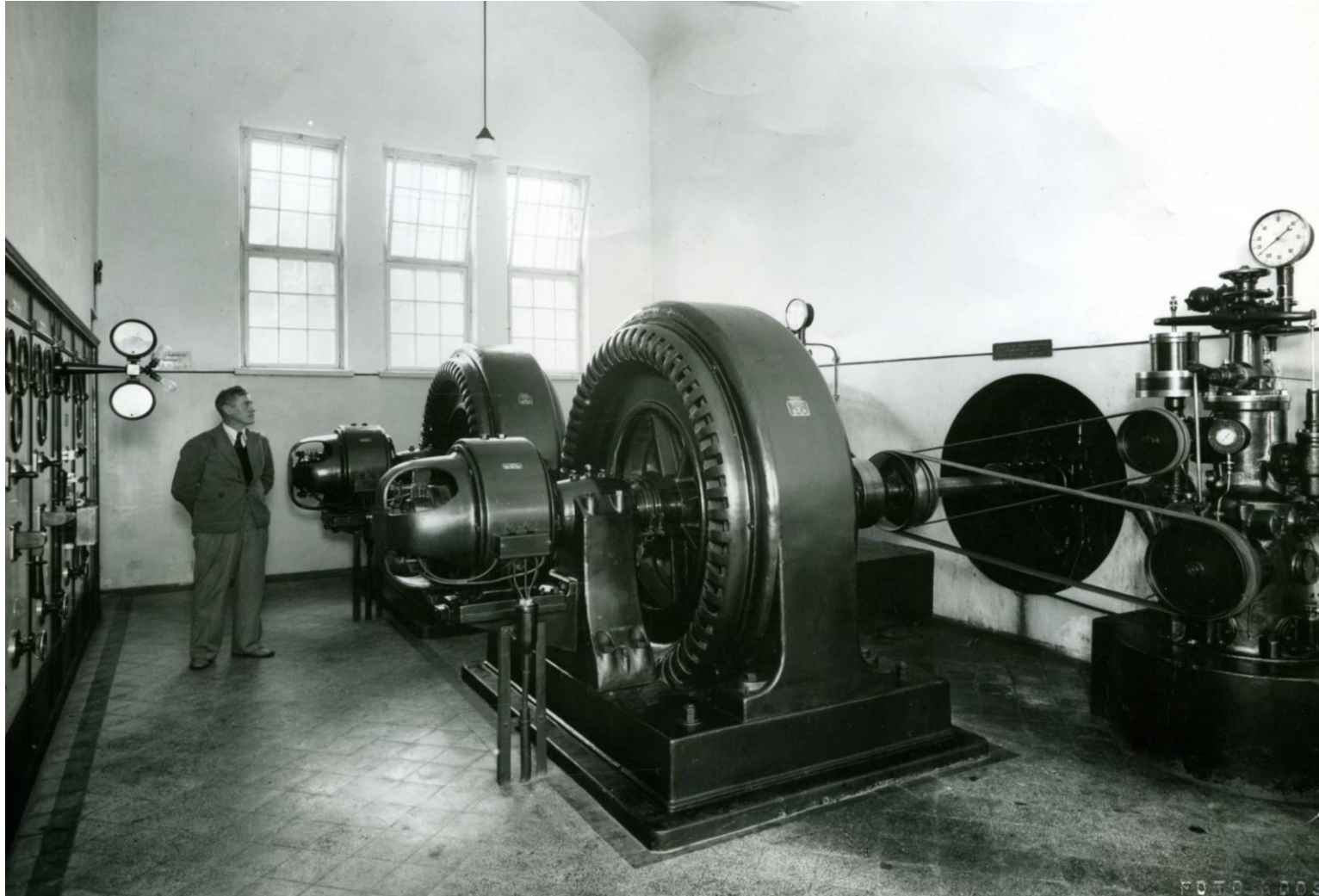


#DevOps

Zauberwort Automatisierung

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#DevOps

Exkurs: Logging mit dem ELK Stack



elasticsearch



logstash



kibana

The screenshot shows the Kibana interface with the following components:

- Navigation:** Discover, Visualize, Dashboard, Settings. A "Last 12 hours" filter is active.
- Search:** Search bar with "3,265 hits" and a search query: "status:200 AND extension:PHP".
- Left Sidebar:** "logstash-*" visualization selected. Fields listed include correlation-id, endpoint, event, host, level, message, @timestamp, duration, gdv-result-vin, http-status, logger-name, request-id, service, and service-version.
- Visualization:** A bar chart showing event counts per 30-second interval from 05:29:00 to 05:43:00. The chart shows several peaks, with the highest reaching over 200 counts.
- Table:** A table of log entries with columns: Time, level, event, endpoint, correlation-id, host, and message. Three entries are visible, all at the INFO level.
- Bottom Panel:** A timeline visualization showing event counts per 10-minute interval from 06:00 to 17:00.





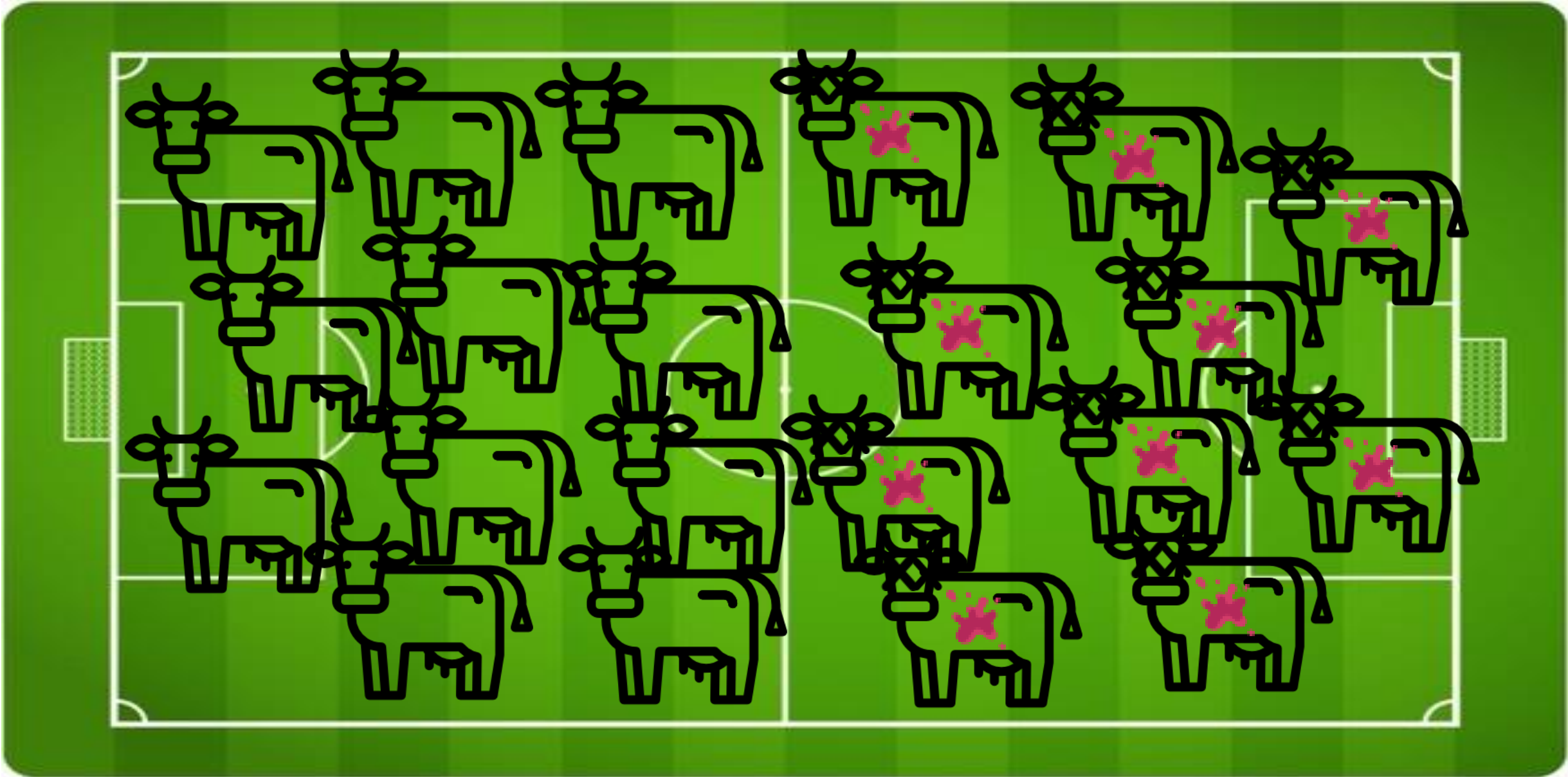
- **Codebase**
- **Dependencies**
- **Config**
- **Backing Services**
- **Build, Release, Run**
- **Processes**
- **Port Binding**
- **Concurrency**
- **Disposability**
- **Dev Prod Parity**
- **Logs**
- **Admin Processes**



<https://12factor.net/de/>

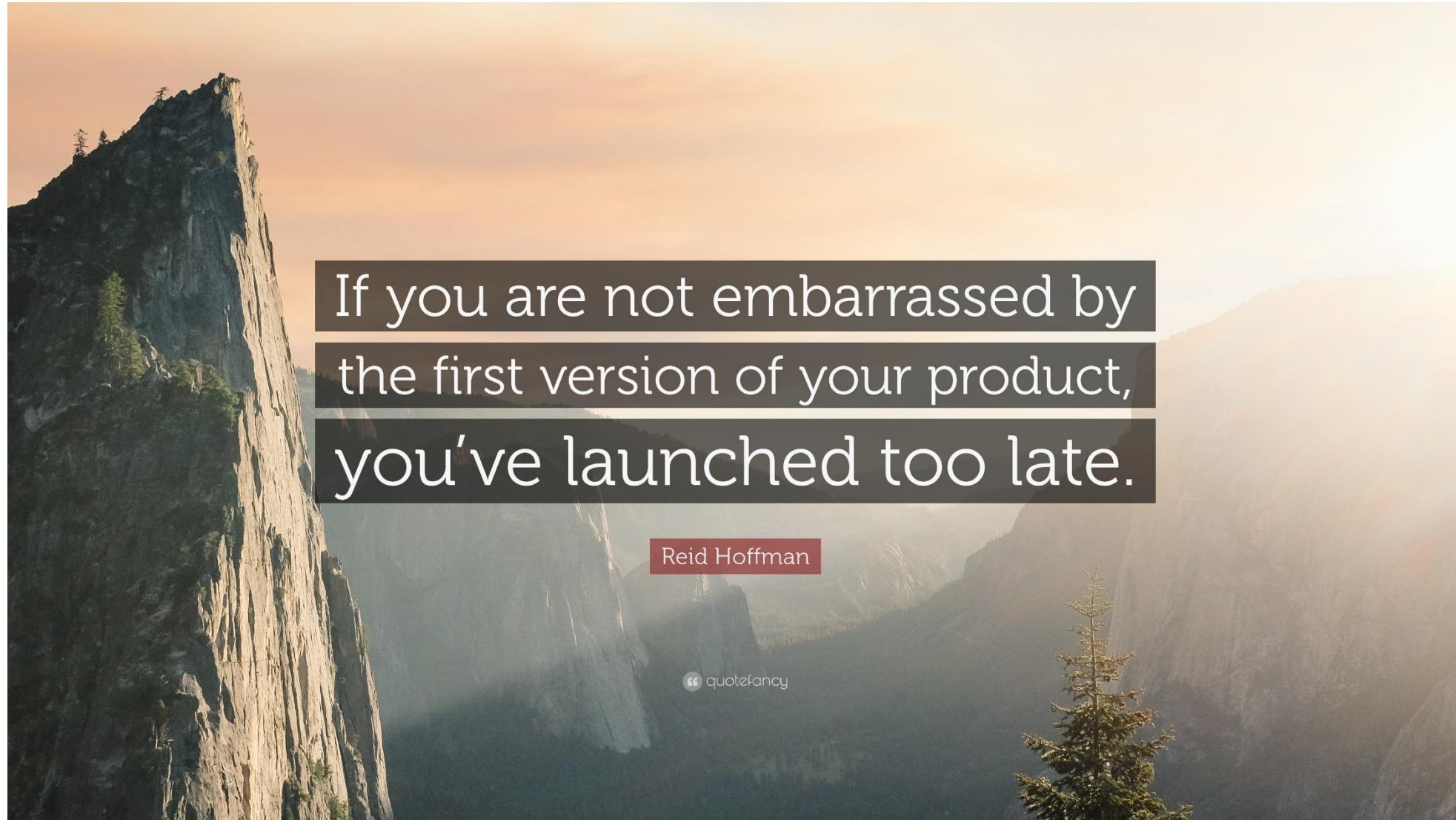
#CloudNative

Mehr Blutvergießen



#CloudNative

The Need for Speed



If you are not embarrassed by
the first version of your product,
you've launched too late.

Reid Hoffman

quote fancy



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