NTT DaTa

Trusted Global Innovator

# Fast and flexible like a start-up:
# Your entry-point into agile IT

CONNECTION
ANALYSIS
DATA
SEARCHING
VERIFICATION
CODING
SENDING

# Trust our expertise

For many years NTT DATA has been involved in agile IT and accompanied many customer throughout the setup of DevOps processes and platforms. Altemista Cloud, NTT DATA's own DevOps platform is built with "State-of-the-Art" components and offers customers to develop and run mission critical applications.

The introduction of DevOps offers a series of advantages like:

- Shorter development cycles by leveraging automated development, test, and installation processes.
- Higher quality by continuous execution of unit, integration, and system tests
- Lower infrastructure costs and higher scalability through efficient container orchestration and flexible cloud infrastructure.

The challenges of a successful introduction of DevOps were often of non-technical nature characterized by:

- organizational change
- education of developers and architects
- advancement of IT security concepts

Based on these experiences NTT DATA offers the following service packages to support the successful start into cloud computing and DevOps:

■ **Cloud Discovery Workshop (1 day):**
Your plan is to start your own cloud journey? Based on our experience we find the right mix of IaaS, PaaS and SaaS for you to set up a production ready environment.

■ **DevOps Discovery Workshop (1 day):**
You want to prepare a vendor agnostic DevOps environment? We give you the necessary details to stay on top of things.

■ **Assessment Workshop (1-3 days):**
You started DevOps some time ago and you are interested in a review of your current set-up?
In this workshop, we run a skill assessment of your DevOps capabilities against current industry standards and give recommendations for further improvements of your DevOps competencies.

In case you are interested in one of the workshops or if you would like to discuss how to start your entry into DevOps, please get in contact with Thorsten Harth (Thorsten.Harth@nttdata.com)

# NTT DATA Workshops

Our customers can choose between different workshops, based on their interest and their individual level of experience. Applicable for all formats:

- NTT DATA's workshops are not "one-size-fits-all": In counseling interviews, we derive content and agenda and tailor them according to our customers' needs.

- NTT DATA's workshops will not be delivered by "trainers": the sessions are led by experienced platform engineers and architects who gained comprehensive knowledge on how to implement production ready cloud environments (engineers) and who have expert level cloud advisory mandates for large enterprises (architects).

- **Workshop:**
  **Cloud Discovery Workshop (1 day)**

Your plan is to start your own cloud journey? Based on our experience we will find the right mix of IaaS, PaaS and SaaS for you to set up a production ready environment.

- Small taxonomy of the cloud (public cloud, private cloud, IaaS, PaaS, SaaS, multi-cloud, hybrid-cloud)
- Pros and cons of the cloud from a local and global point of view
- Latest cloud developments (container, serverless, edge and fog computing
- Challenges for the developers or why "cloud ready" does not automatically imply "cloud native"
- Hands-on: recommendations for next steps into the cloud

- **Workshop:**
  **DevOps Discovery Workshop (1 day)**

You want to prepare a vendor agnostic DevOps environment? We give the necessary details to stay on top of things:

- Know your stakeholders
- Introduction to the agile delivery model of NTT DATA (horizontal IT, adaptive sourcing, digital architecture, agile IT delivery)
- Overview of agile delivery platforms and small taxonomy of the cloud (public cloud, private cloud, IaaS, PaaS, SaaS, multi-cloud, hybrid-cloud)
- Blueprint for a platform based DevOps approach (platform developers, quality engineering, policy automation, operation automation, developer experience, commercial model)
- Challenges for the developers or why "cloud ready" does not automatically imply "cloud native"
- Hands-on: recommendations for next steps into an agile delivery model.

**■ Workshop:**
**Bootcamp-Workshop (3-5 days)**

You have already started your DevOps initiative?
This comprehensive hands-on workshop enables
developers and architects to gain the right skills.

- Part 1: How to work with DevOps tools
  (Linux basics, Vagrant, Docker, Ansible, continuous
  integration, continuous deployment)
- Part 2: How to set up container orchestration
  (fundamentals, scalability, persistence, build pipe-
  lines, security)

**■ Workshop:**
**Assessment Workshop (1-3 days)**

You started DevOps some time ago and you are
interested in a review of your current set-up?
In this workshop, we run a skill assessment of your
DevOps capabilities against current industry stan-
dards and give recommendations for further improve-
ments of your DevOps competencies.

Different dimensions are considered. You get recom-
mendations on how to improve:

- Technology
- Processes
- Organization
- Security
- Quality
- Scalability
- Availability
- Operability

# NTT DATA Altemista Cloud

NTT DATA's Altemista Cloud represents the agile IT platform solution for your enterprise, which provides new agile IT while integrating seamlessly into existing enterprise IT. Our platform offers a full service concept including all necessary components to enable IT organizations to quickly facilitate innovative solutions for their digital business while incorporating their existing infrastructure.

## DevOps & Automation

| | | | |
|---|---|---|---|
| GitLab | Jenkins | Sonarqube | Artifactory |
| Cucumber | JMeter | NightWatch | Altemista CLI |

## Collaboration

| | |
|---|---|
| Jira | Confluence |
| Mattermost | XWiki |

## SW Technologies

| | |
|---|---|
| Golang | Java Spring |
| Payara | Node.js |

## Middleware

| | | | | | | |
|---|---|---|---|---|---|---|
| Keycloak | EFK | Prometheus | Camel ESB | ActiveMQ | IBM MQ | PostgreSQL |

## Platform / Infrastructure

| | | | | | | |
|---|---|---|---|---|---|---|
| Openshift | Docker | Ansible | F5 Big-IP | Storage | SDN | SSL/TLS |
| | NTT ECL2 | MS Azure | AWS EC2 | Bare Metal | | |

■ **Business Agility:**
   **Altemista ProjectNow!**

Get access to all techniques, tools and professional services to implement container based solutions from end to end. Our product incorporates innovative cognitive models that rely on collaboration. It enables fast development based on prototyping, agile processes, user data and automated tests. This approach is complemented with the possibility to execute real world test scenarios in order proof your ideas.

■ **Reliability and scalability:**
   **Altemista Cloud Platform**

Altemista Cloud Platform helps you not only to implement your newest ideas based on latest technologies like Docker, API-Management, micro service architectures or NoSQL databases, but also you can use it for modernization efforts for your legacy applications. Our technology enables your IT departments to migrate JEE applications within days, without the need of complex re-designs, thus minimizing potential risks for failure. Develop your solution and we will implement it based on your service requirements.

■ **Pace and efficiency:**
   **Altemista Cloud Dashboard**

Lean and automated processes: starting with requirements engineering, followed by implementation, build and deployment up to test and operations. Our Altemista DevOps processes leverage the experience we gained in various customer projects and are implemented with leading edge technology. These are Open Source based industry standards like git, Jenkins, SonarQube, Artifactory, Jira, Confluence and much more.

■ **Measure and Manage:**
   **Altemista Cloud Dashboard**

With Altemista Cloud Dashboard you can keep track of all the essentials of your business IT solution like the utilization of IT resources, the availability of your solutions or the speed of your past IT projects. The dashboard introduces important key performance indicators that help you to know all required details of your agile digitalization - anytime and anywhere. Altemista Cloud comes with all the required features to be able to start and manage any type of project.

# Altemista Cloud technical specifications

The Altemista Cloud can be provided in different configurations. The spectrum ranges from simple development environments to fully redundant production environments. All configurations can be flexibly adapted at any time in terms of computing capacity.

| | Project Edition<br>Entry-level setup for small projects with up to ten employees. | Enterprise Edition<br>For huge projects with large teams of more than 100 employees. |
|---|---|---|
| Hosting & Hardware | ■ Own server operated by NTT Enterprise Cloud data center in Frankfurt, London or Tokyo<br>■ HP ProLiant DL360, G9, Intel Xeon E5-2670v3<br>■ Capacity guaranteed every time | ■ Same as Project Edition, extended by:<br>■ Automatic Backup/DR<br>■ Co-location room, if there is the need for the installation of your own storage or security systems. |
| Connectivity | ■ 10 Mbits/s internet connectivity without restrictions or throttling<br>■ 24x7 real-time monitoring for anomaly detection<br>■ VPN IP-Sec | ■ 10 Gbits/s internet connectivity without restrictions or throttling<br>■ 24x7 real-time monitoring for anomaly detection<br>■ VPN IP-Sec<br>■ High-speed MPLS connectivity available<br>■ Optionally, inter DC connectivity to Amazon WS or Microsoft Azure |
| Platform | ■ Red Hat Enterprise Linux 7<br>■ Red Hat Enterprise Openshift 3 | ■ Red Hat Enterprise Linux 7<br>■ Red Hat Enterprise Openshift 3 |
| Project Capacity | ■ Your own capacities for your applications. No shared usage with other customers, platform admins, or build/deploy processes.<br>■ 16 VCPU/64 GB RAM/500 GB storage, additional capacity optionally available | ■ Your own capacities for your applications. No shared usage with other customers, platform admins, or build/deploy processes.<br>■ 16 VCPU/64 GB RAM/500 GB storage, additional capacity optionally available |

| | | |
|---|---|---|
| **Delivery Line** | ■ Own capacities for build/deploy processes<br>■ (8 VCPU/32 GB RAM)<br>■ GitLab, Jenkins, Artifactory, Sonarqube with 500 GB storage<br>■ Docker registry with 500 GB storage<br>■ Atlassian Jira, Atlassian Confluence and MatterMost with 200 GB storage and maximum of ten user | ■ Own capacities for build/deploy processes<br>■ (8 VCPU/32 GB RAM)<br>■ GitLab, Jenkins, Artifactory, Sonarqube with 500 GB storage<br>■ Docker registry with 1 TB storage<br>■ Atlassian Jira, Atlassian Confluence and MatterMost with 1 TB storage, no user limit |
| **Dashboard** | ■ No dashboard | ■ DevOps dashboard<br>■ SCRUM multi-project-management dashboard |
| **Availability and Support** | ■ 99,99% availability of the cloud resources<br>■ 99,99% availability of the platform<br>■ 5x8 2nd level support in English | ■ 99,99% availability of the cloud resources<br>■ 99,99% availability of the platform<br>■ 24x7 2nd level support in English |
| **Contract Terms** | ■ No minimum contract term<br>■ Contract cancellation to a one month prior notice | ■ 12 months contract term<br>■ Contract cancellation to a one month prior notice |

# Our Expertise

With Altemista Cloud and meanwhile more than 100 trained cloud specialists in Germany alone, we support our customers in their digital transformation. On a daily basis, we demonstrate the value of cloud technologies in terms of speed and flexibility.  The outcome shows how the existing IT world can be optimally integrated and transformed.

■ **Case Study:**
  **Regulatory reporting hub**

Based on the Altemista Cloud, NTT DATA has developed a hub for regulatory reporting in securities trading. The solution serves as a hub, where data is transformed and processed by external partners (for example banks) in accordance with the rules of the European Securities and Markets Authority (ESMA). The solution is operated by NTT DATA according to ESMA specifications.

■ **Case Study:**
  **Cash management platform development**

Based on Altemista Cloud, NTT DATA has provided an agile IT platform on which a major German universal bank is developing the next generation of its cash management platform. The agile IT platform includes tools for agile project management, software builds and deployments as well as test and quality management.

■ **Case Study:**
  **Microservices for new business models**

With Altemista Cloud, NTT DATA supports a fleet services provider in the development and  introduction of new business models based on a micro service architecture. The cloud platform covers the entire lifecycle of micro services: from requirements management up to the operation in a high-available and high-scalable production environment.

■ **Case Study:**
  **Platform engineering**

Based on the experience of building production-ready cloud platforms NTT DATA supports large companies (e.g. car manufacturers and transport companies) in the development and implementation of their private cloud platforms. The focus is on DevOps tool chains, testing, logging, monitoring, auto-scaling, security as well as micro service and multi-cloud architectural patterns.

# Your contact

**Dr. Thorsten Harth**
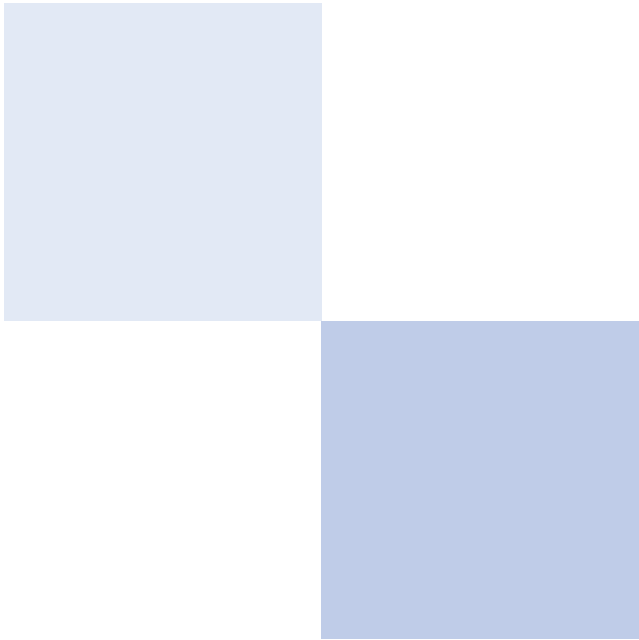Presales Cloud – powered by Altemista
Digital Business Solutions

Thorsten Harth is Managing Presales Consultant at NTT DATA Germany and is responsible for our Cloud Computing powered by Altemista business. In his role, he supports and advises clients on the implementation of their digital agenda using agile cloud technologies. With more than 20 years of experience in IT, his focus areas cover databases and data management, technology evolution from SOA to cloud-based architectures, IT security, and how IT systems can be protected against attacks and volumetric strikes.

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**About NTT DATA**

NTT DATA is a leading provider of business and IT solutions and a global innovation partner to its customers. The Japanese corporation headquartered in Tokyo is present in over 50 countries worldwide. The focus is on long-term customer relationships: NTT DATA combines global presence with local market knowledge, offering first class professional services ranging from consultancy and system development to outsourcing.

For more information, visit www.nttdata.com

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