

Gefördert durch:



Bundesministerium
für Wirtschaft
und Klimaschutz

aufgrund eines Beschlusses
des Deutschen Bundestages

Gaia-X
FEDERATION SERVICES
GXFS



GXFS OSS Werkzeugkiste – Der Kickstarter für das Gaia-X Ökosystem

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Gaia-X
FEDERATION SERVICES
GXFS



Referenten



Berthold Maier
GXFS Experte
„Identität &
Vertrauen“



Steffen Schulze
GXFS Experte
„Identität &
Vertrauen“



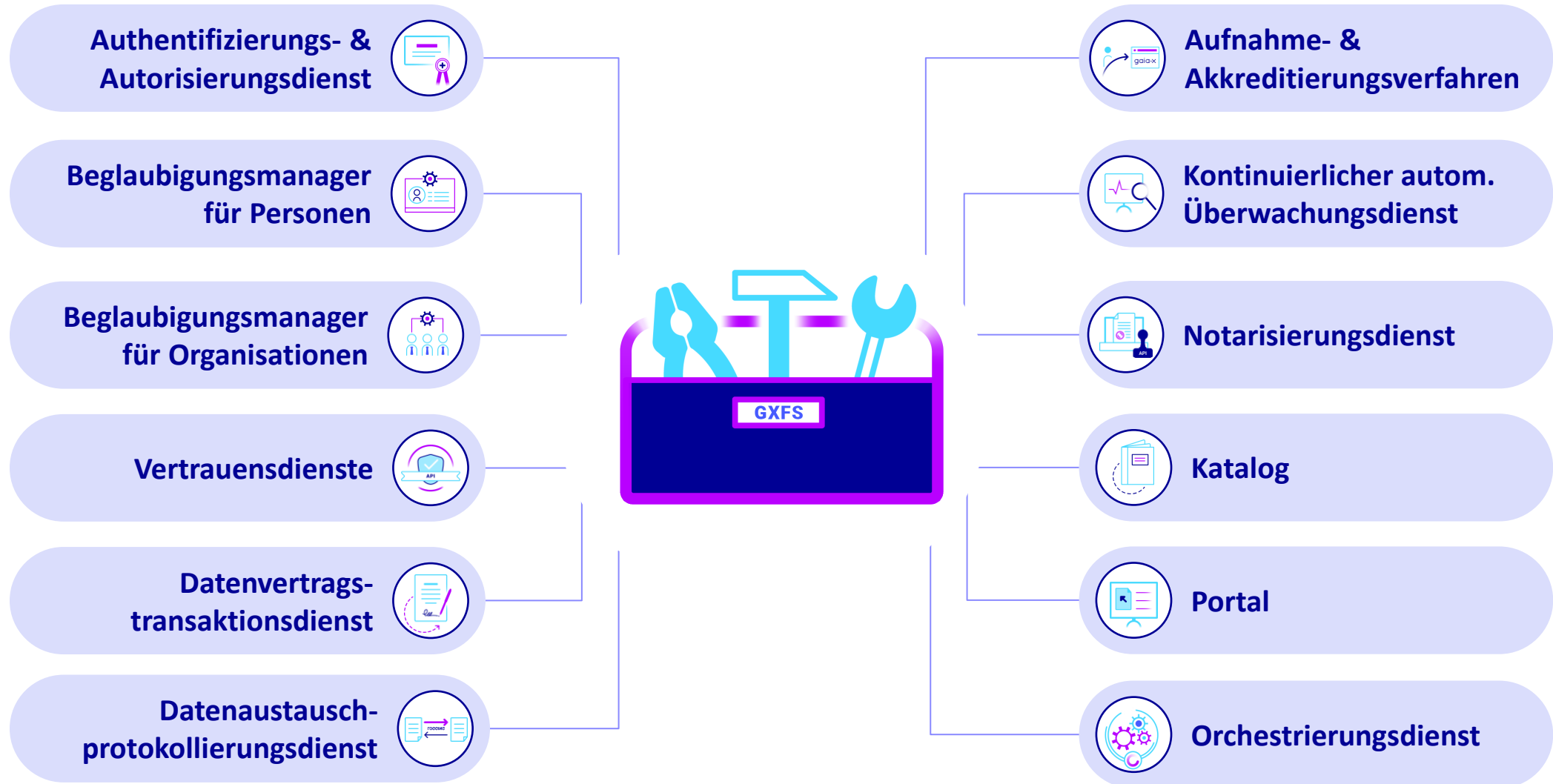
Sebastian Steinbuß
GXFS Experte
„Souveräner
Datenaustausch“



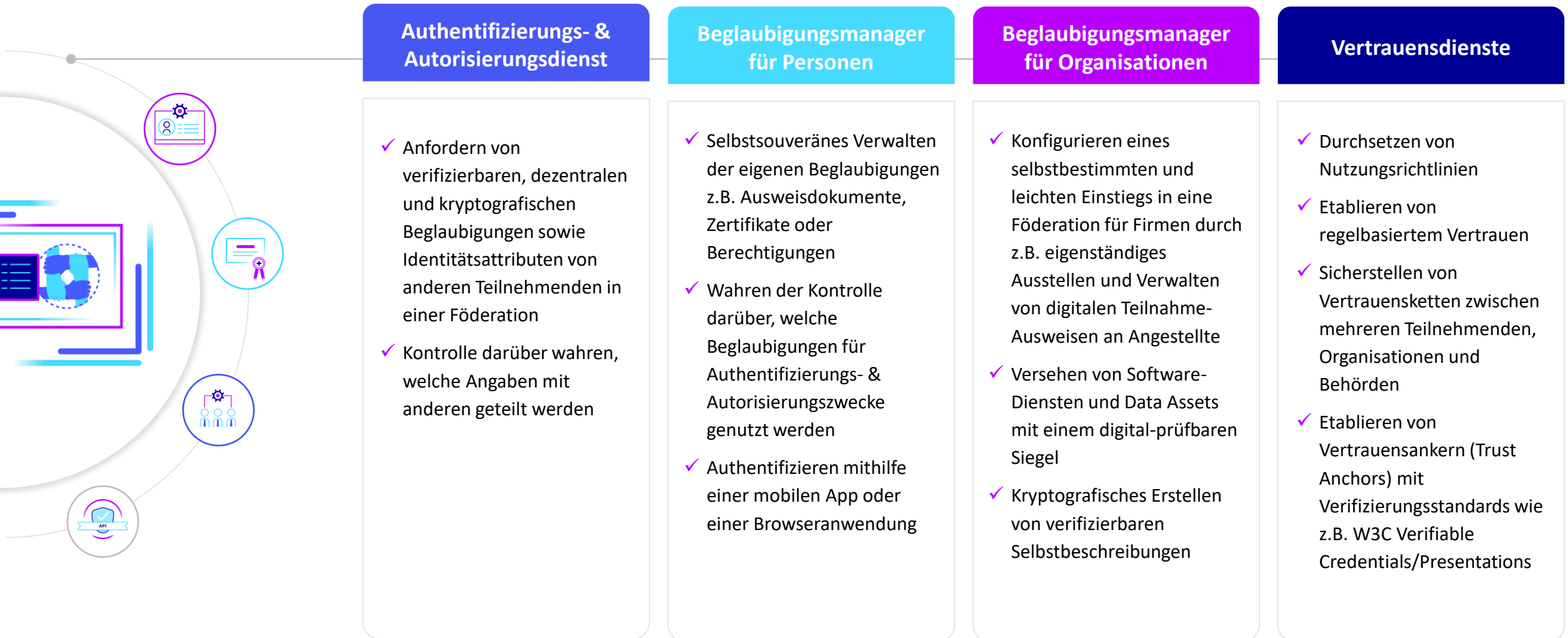
Thomas Niessen
GXFS Experte
„Regelkonformität“

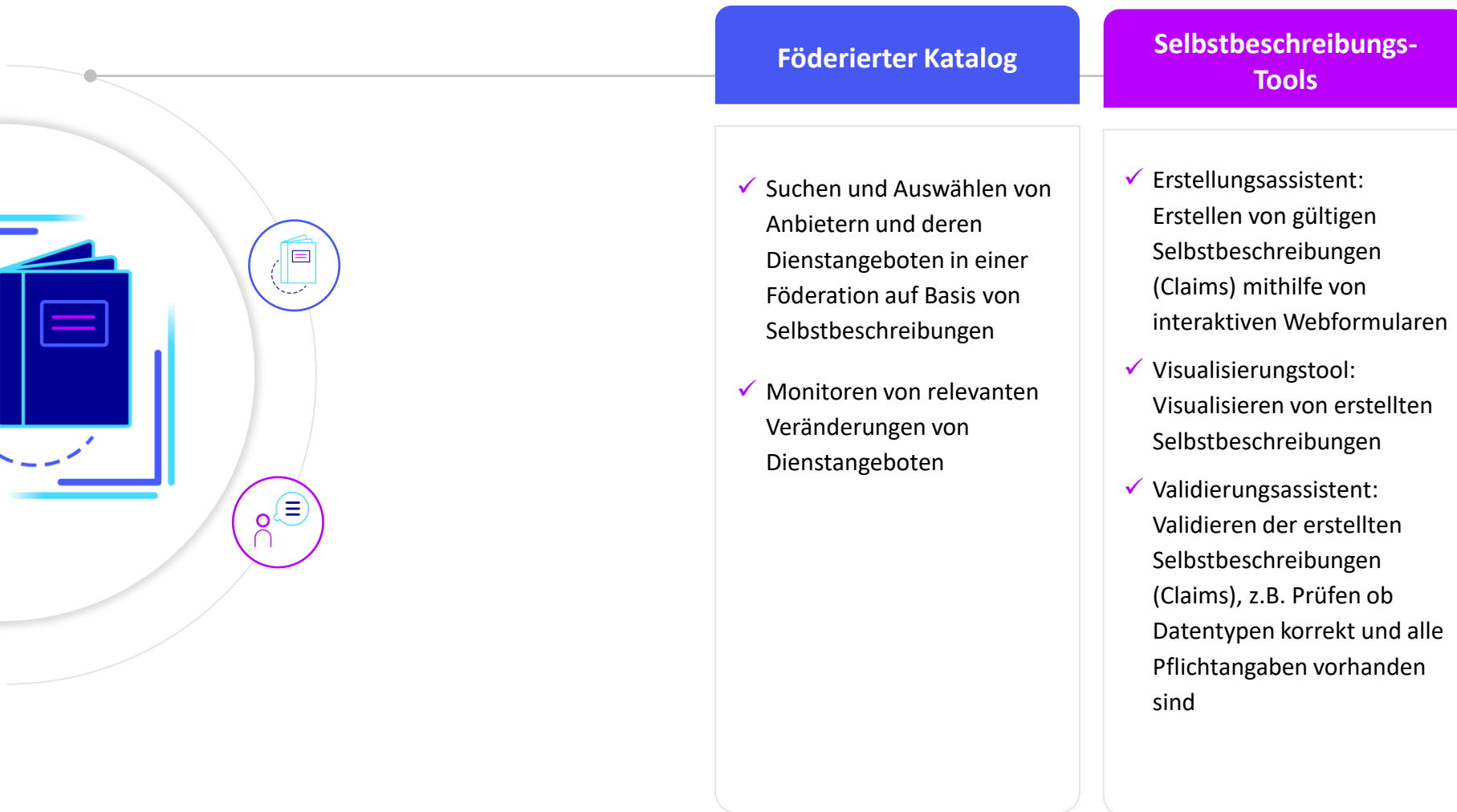


Dr. Christian Weiss
GXFS Experte
„Portal &
Integration“

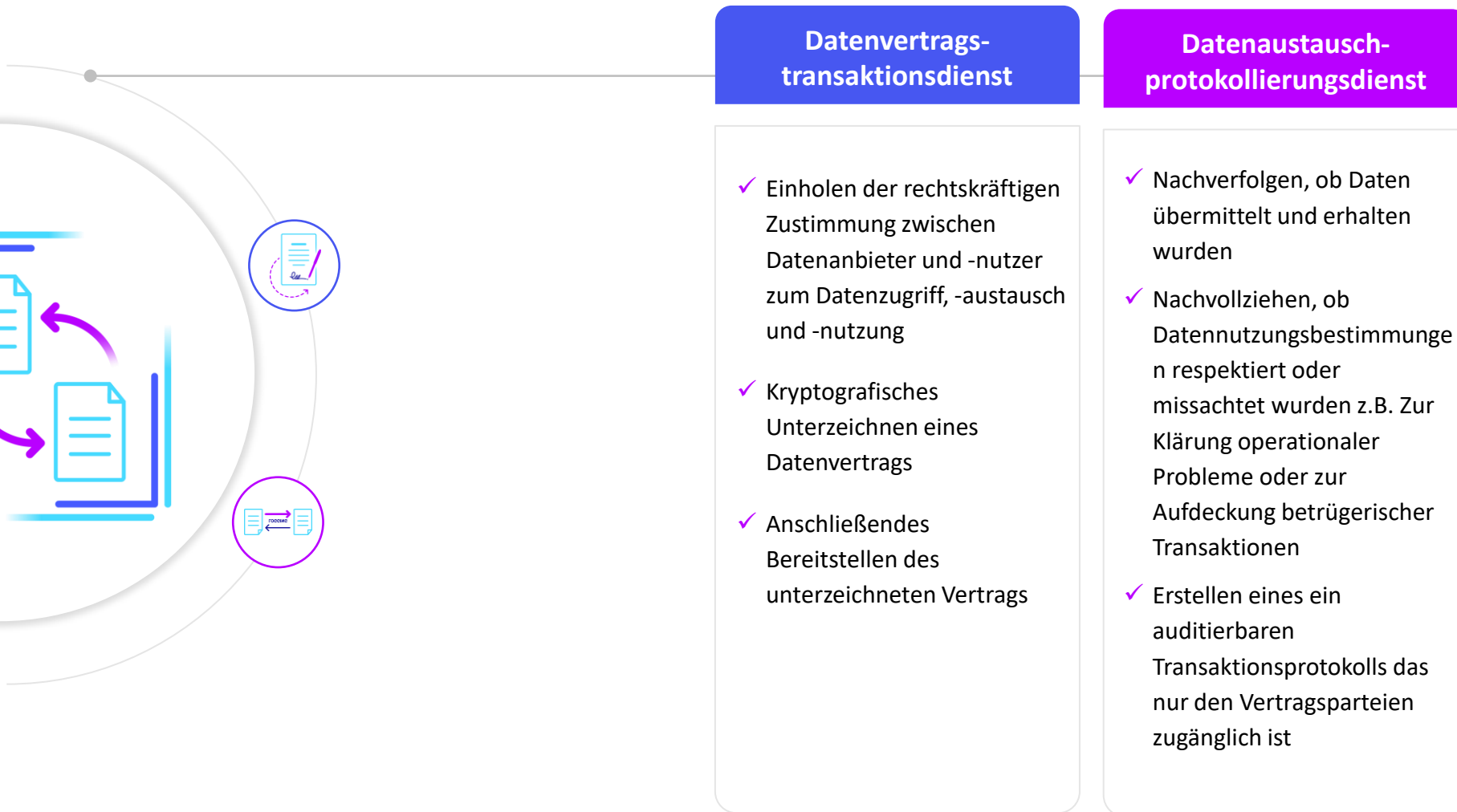


GXFS Dienste: Identität & Vertrauen

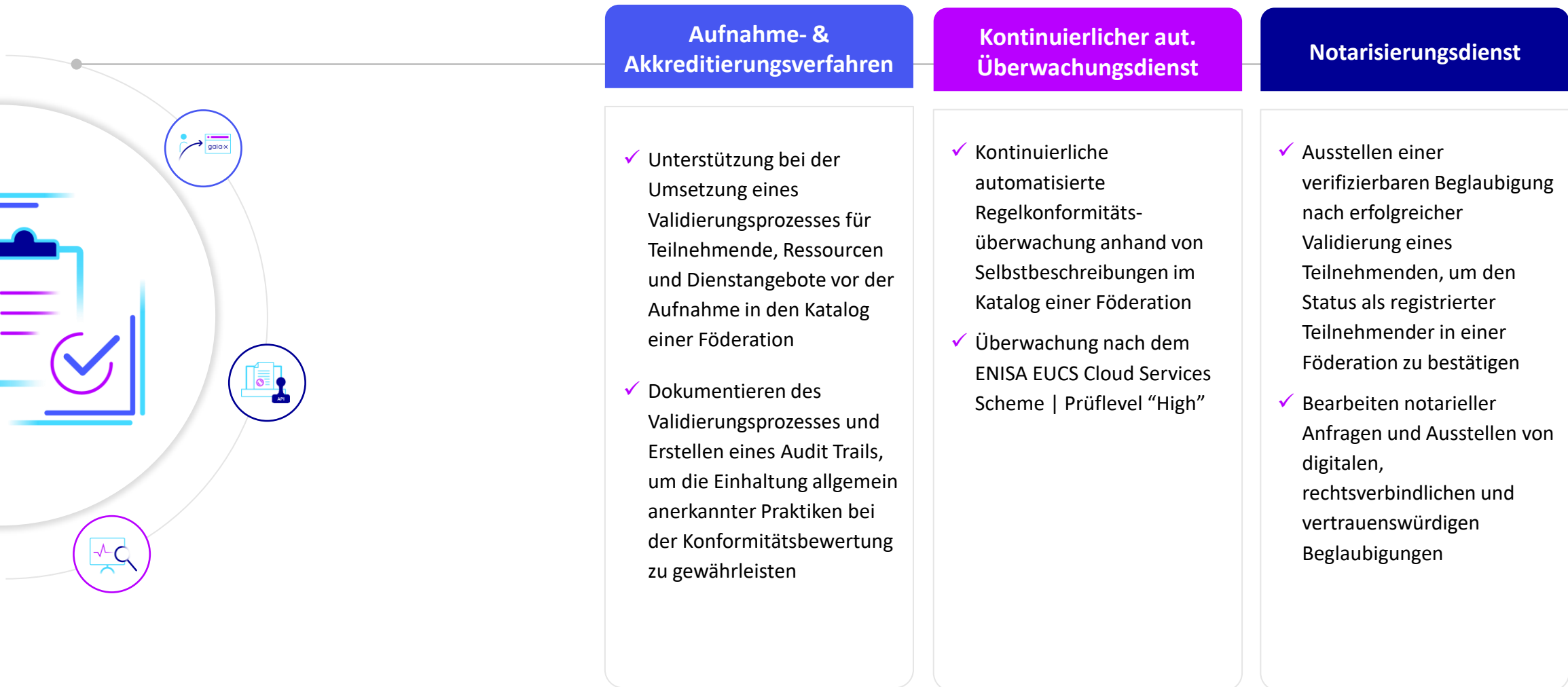




GXFS Dienste: Souveräner Datenaustausch



GXFS Dienste: Regelkonformität



GXFS Dienste: Portal & Integration

Portal

- ✓ Betreiben eines Business-Web-Clients für jede Föderation
- ✓ Integrieren der einzelnen Föderationsdienste wie z.B.:
 - ✓ Such- und Filterfunktion zur Abfrage von Föderationsdatenbanken
 - ✓ Anzeige von Suchergebnissen zu Diensten und Daten innerhalb einer Föderation
 - ✓ Mitgliedskonto mit Profilverwaltung, um u.a. Selbstbeschreibungen, Organisationsdaten und Login-Historie zu erstellen und zu bearbeiten
 - ✓ Verwalten von Credentials
 - ✓ Hinzufügen und Autorisieren von neuen Mitgliedern einer Föderation
 - ✓ Dashboard mit Überblick aller aktiven und inaktiven Dienste, Status der gebuchten Dienste und Verlaufshistorie genutzter Dienste

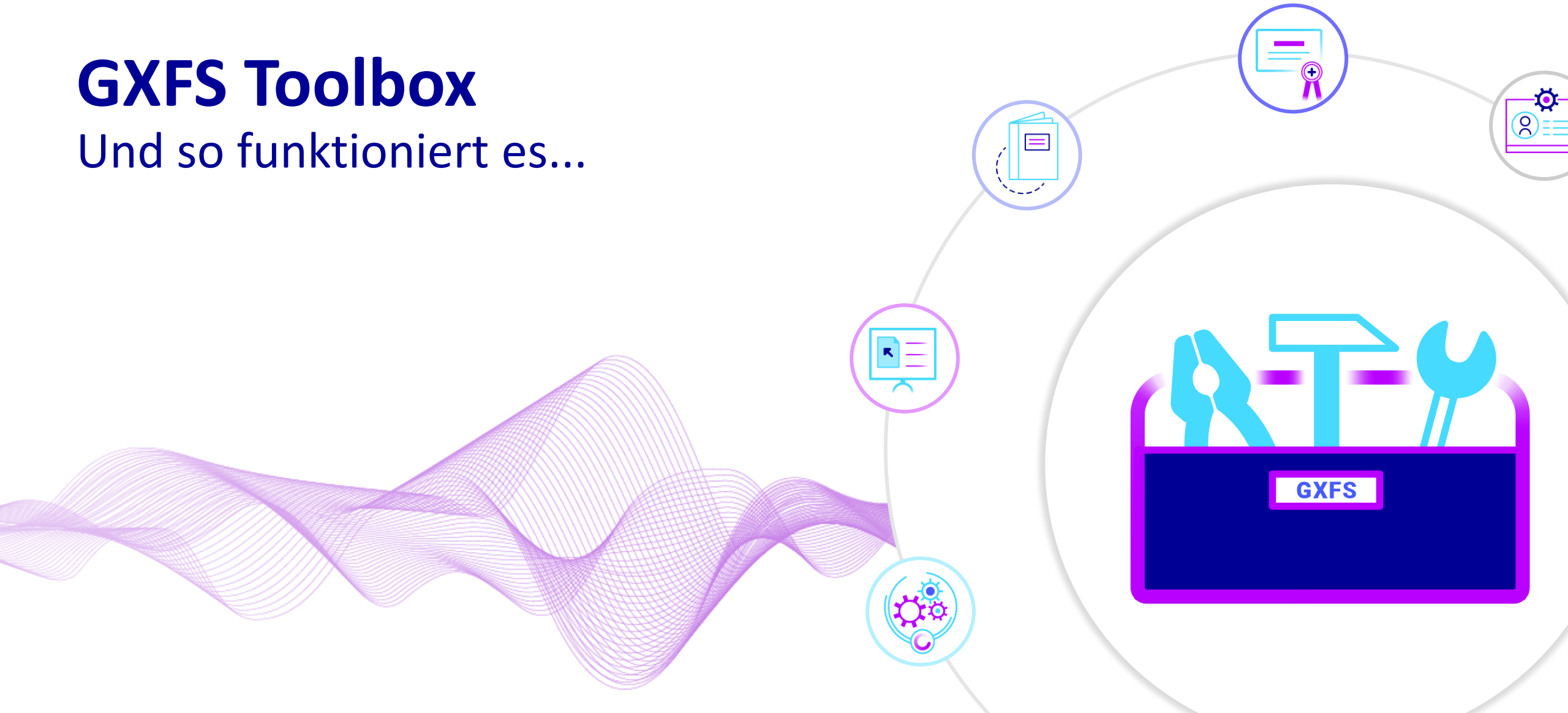
Orchestrierungsdienst

- ✓ Instanzieren von ausgewählten Diensten aus dem Katalog, insb. IaaS Angebote wie z.B. Compute und/oder Storage und Installieren von Applikationen innerhalb der gewählten Infrastruktur
- ✓ Nutzen von Provider APIs für den IaaS Lifecycle
- ✓ Aktualisieren von Applikationen auf z.B. Die neueste Version

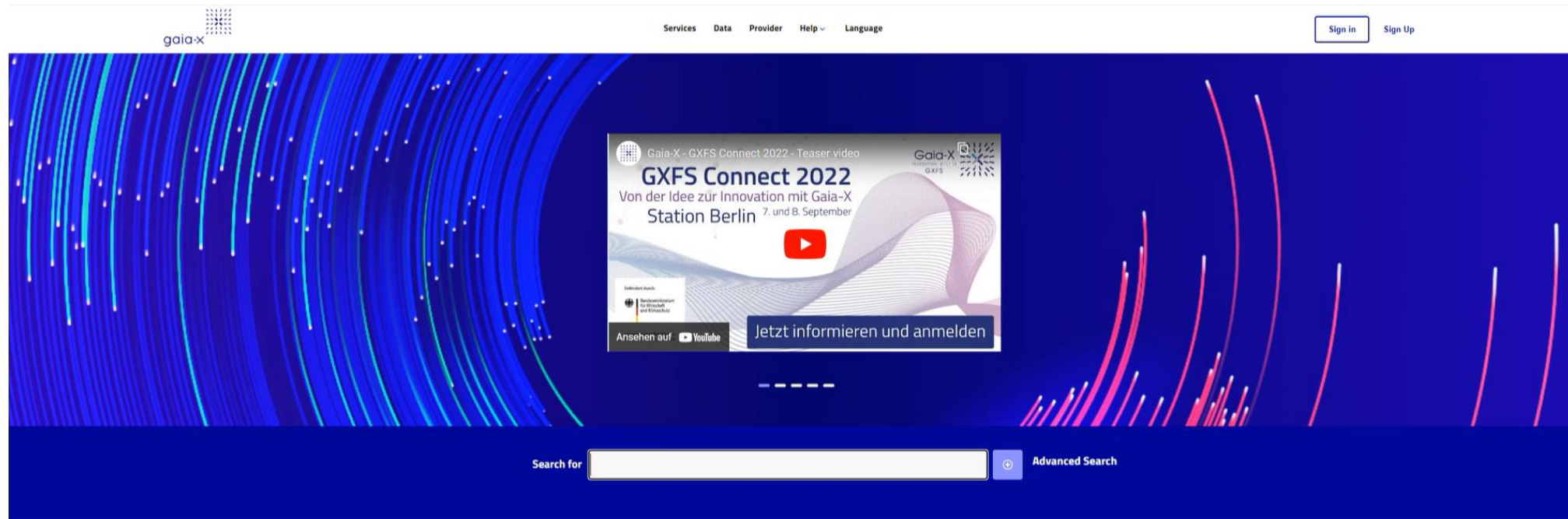


GXFS Toolbox

Und so funktioniert es...



Sie besuchen das Portal Ihrer Föderation...

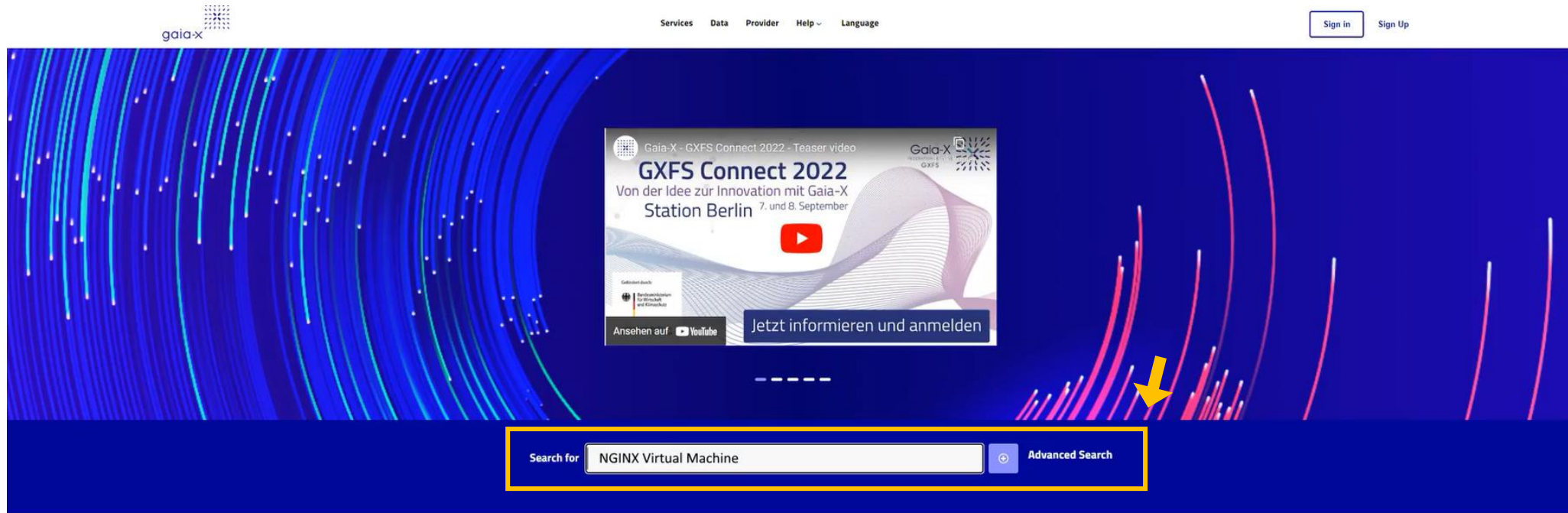


Shaping the future data infrastructure together - Secure, Open and Transparent

Innovation through digital sovereignty – that's the goal of Gaia-X. This is achieved by establishing an ecosystem in which data is made available, collated and shared in a trustworthy environment where users always retain sovereignty over their data. What emerges is not a cloud, but a federated system that links many cloud service providers and users together.



... und möchten einen nginx Webserver auf einer virtuellen Maschine buchen



Shaping the future data infrastructure together - Secure, Open and Transparent

Innovation through digital sovereignty – that's the goal of Gaia-X. This is achieved by establishing an ecosystem in which data is made available, collated and shared in a trustworthy environment where users always retain sovereignty over their data. What emerges is not a cloud, but a federated system that links many cloud service providers and users together.



Sie erhalten eine Liste von Anbietern, die derzeit eine solche Infrastrukturkomponente anbieten

gaia-x

Services Data Provider Help Language

NGINX Virtual Machine

Advanced Search

Filter

Location

- ☐ New York 219
- ☐ Belgrade 427
- ☒ Berlin 208
- ☐ Magdeburg 210
- ☐ Paris 241
- ☐ London 0

Category #1

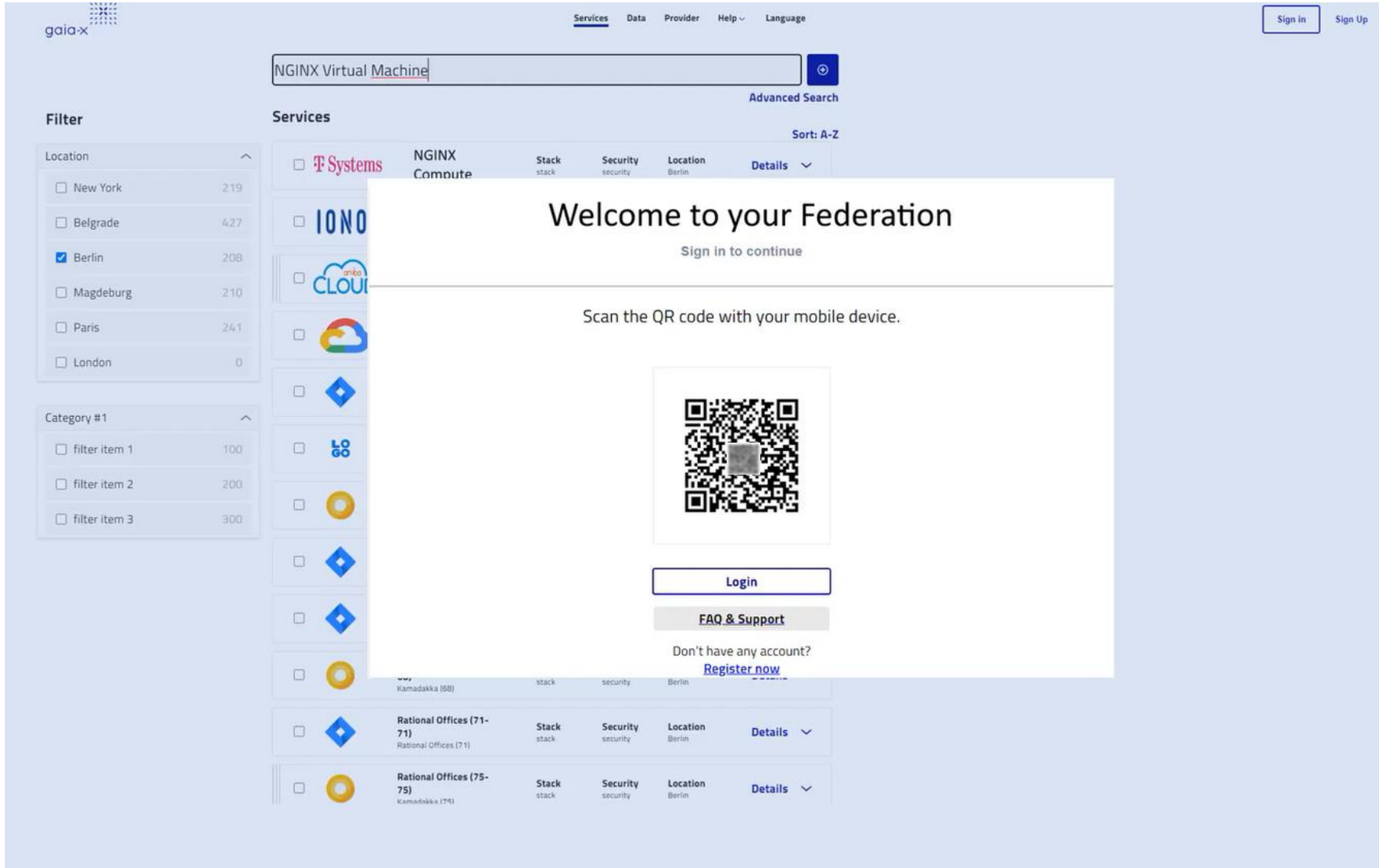
- ☐ filter item 1 100
- ☐ filter item 2 200
- ☐ filter item 3 300

Services

Sort: A-Z

<input type="checkbox"/>	T Systems	NGINX Compute	Stack stack	Security security	Location Berlin	Details
<input type="checkbox"/>	IONOS	NGINX Virtual Machine	Stack stack	Security security	Location Berlin	Details
<input type="checkbox"/>	Cloud	Cloud VPS	Stack stack	Security security	Location Berlin	Details
<input type="checkbox"/>	Cloud	Compute	Stack stack	Security security	Location Berlin	Details
<input type="checkbox"/>	Rational Offices (28-28)	Kamadakka (28)	Stack stack	Security security	Location Berlin	Details
<input type="checkbox"/>	Rational Offices (32-32)	Rational Offices (32)	Stack stack	Security security	Location Berlin	Details
<input type="checkbox"/>	Rational Offices (37-37)	Otus-M (37)	Stack stack	Security security	Location Berlin	Details
<input type="checkbox"/>	Rational Offices (57-57)	Rational Offices (57)	Stack stack	Security security	Location Berlin	Details
<input type="checkbox"/>	Rational Offices (67-67)	Otus-M (67)	Stack stack	Security security	Location Berlin	Details
<input type="checkbox"/>	Rational Offices (68-68)	Kamadakka (68)	Stack stack	Security security	Location Berlin	Details
<input type="checkbox"/>	Rational Offices (71-71)	Rational Offices (71)	Stack stack	Security security	Location Berlin	Details
<input type="checkbox"/>	Rational Offices (75-75)	Kamadakka (75)	Stack stack	Security security	Location Berlin	Details

Für die Detailansicht der gelisteten Angebote ist eine Anmeldung erforderlich



The screenshot displays the Gaia-X Federation Services (GXFS) web interface. A modal window titled "Welcome to your Federation" is centered on the screen, prompting users to "Sign in to continue" and "Scan the QR code with your mobile device." The modal includes a QR code, a "Login" button, a link to "FAQ & Support", and a "Register now" link for users without an account.

The background interface features a search bar with the text "NGINX Virtual Machine" and an "Advanced Search" button. On the left, there are filter sections for "Location" (listing New York, Belgrade, Berlin, Magdeburg, Paris, and London) and "Category #1" (listing filter item 1, 2, and 3). The main content area displays a list of services, including "T Systems", "IONO", "cloud", and "Rational Offices (71-71)" and "Rational Offices (75-75)". Each service entry includes a logo, a name, and a "Details" link.

Teilnehmer erhalten von ihrer Organisation die Zugangs-Credentials

Shaping the data infrastructure of the future
together – secure, open and transparent

GAIA-X Federation Services Employee Credential

Fill in the form and register to get your Employee Credential



Federation ID*

Federation Name*

Employee ID*

Employee Last Name*

Employee First Name*

Employee Email*

Employee Claims*



Shaping the data infrastructure of the future
together – secure, open and transparent

GAIA-X Federation Services Employee Credential

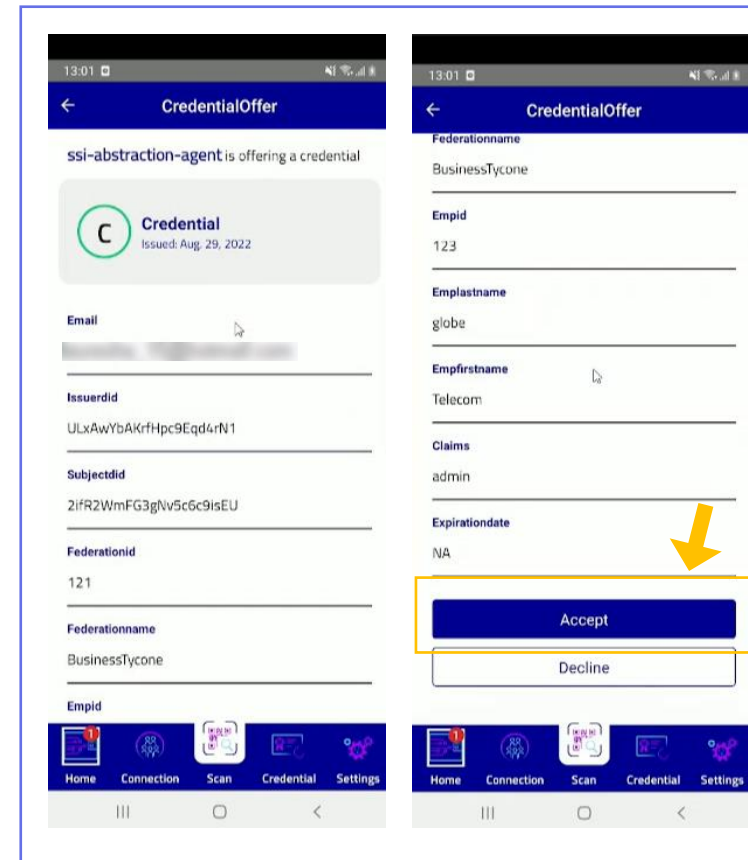
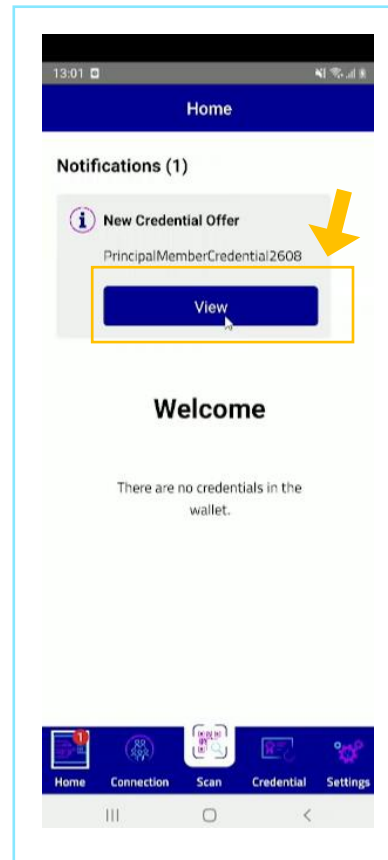
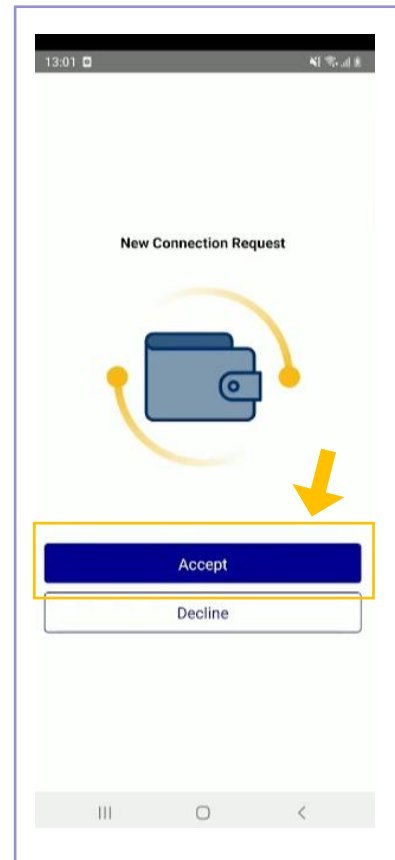
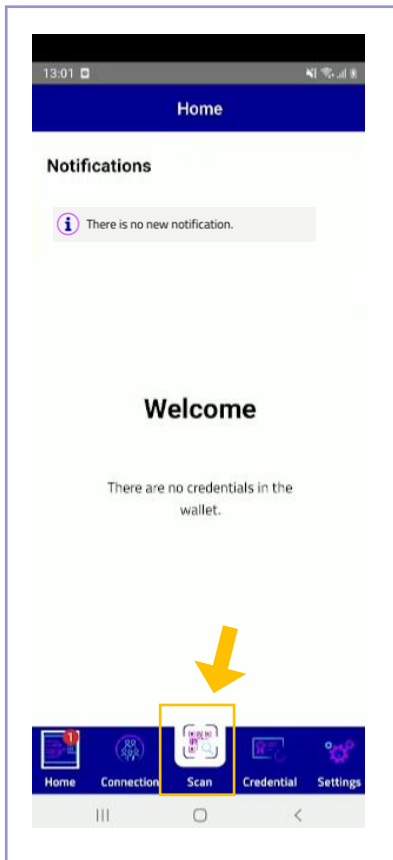
Fill in the form and register to get your Employee Credential



Please scan the QR-Code with you wallet.

Beispiel von firmenspezifischen Ausstellungsmasken

Entgegennehmen und Verwalten der Zugangsdaten im Teilnehmer-Wallet



Schritt 1

Schritt 2

Schritt 3

Schritt 3

Schritt 4

Nach erfolgreicher Anmeldung können Details zu den gelisteten Angeboten eingesehen werden

gaia-x

Services Data Provider Help Language

NGINX Virtual Machine

Filter

Location

- ☐ New York 219
- ☐ Belgrade 427
- ☐ Berlin 208
- ☐ Magdeburg 210
- ☐ Paris 241
- ☐ London 0

Category #1

- ☐ filter item 1 100
- ☐ filter item 2 200
- ☐ filter item 3 300

Services

Sort: A-Z

Details

Private & Public Cloud
Die europäische Cloud-Plattform

- ☒ Volle Souveränität
- ☒ Maximale Performance
- ☒ Höchste Skalierbarkeit

Size	vCPUs	RAM	NVMe storage
<input type="checkbox"/> XS	1	1 GB	30 GB
<input type="checkbox"/> S	1	2 GB	50 GB
<input checked="" type="checkbox"/> M	2	4 GB	80 GB
<input type="checkbox"/> L	4	8 GB	160 GB

Atag Btag Ctag

STACK LAST UPDATE TERMS OF USE LOCATION SECURITY CATEGORY
stack 2022-07-22 term of use Berlin security Category #2

Add

Contact

The Service Power (2-2)
Biz and Problembiz (2)

Analytical Supporting (3-3)
Analytical Supporting (3)

The Service Power (4-4)
The Service Power (4)

Otus-M (5-5)
Analytical Supporting (5)

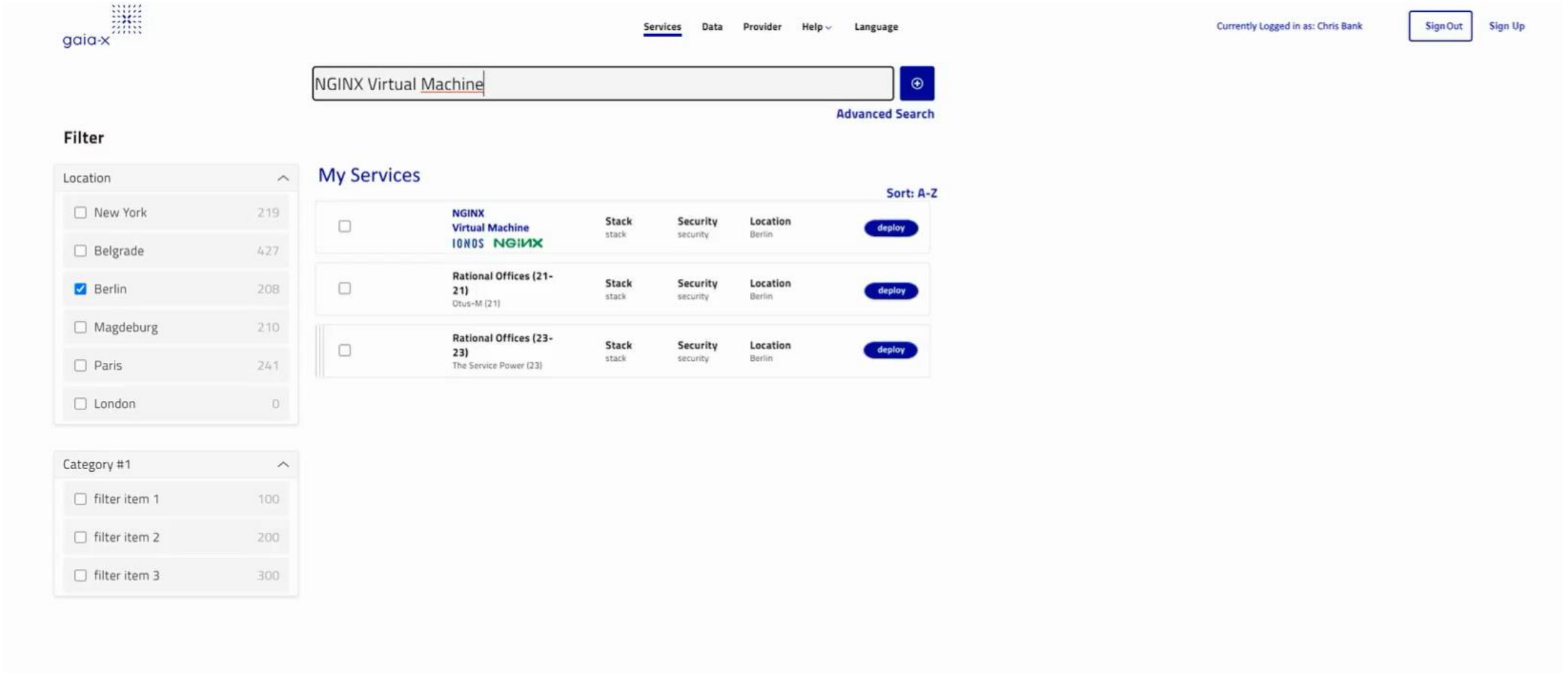
Currently Logged in as: Chris Bank

Sign Out

Sign Up



“My Services” bietet die Möglichkeit, favorisierte Angebote zu speichern



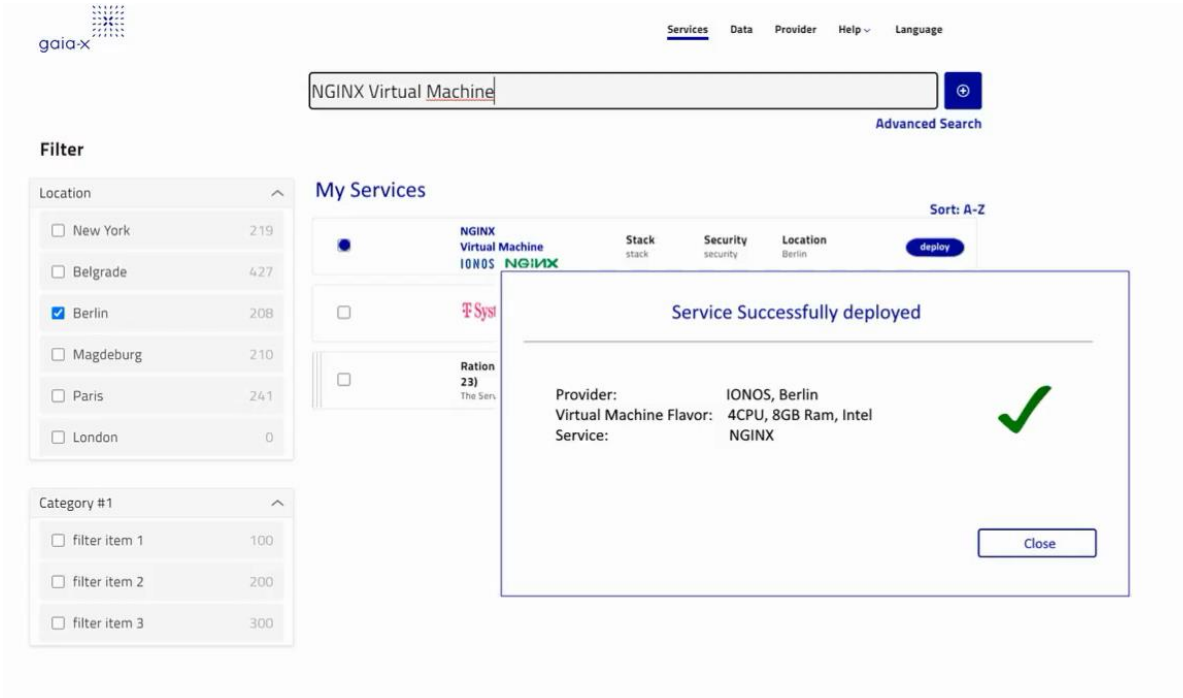
The screenshot displays the Gaia-X user interface. At the top, the Gaia-X logo is on the left, and navigation links for Services, Data, Provider, Help, and Language are in the center. On the right, it shows the user is logged in as Chris Bank with Sign Out and Sign Up buttons.

A search bar contains the text "NGINX Virtual Machine" with an "Advanced Search" button to its right. Below the search bar, the "Filter" section is visible, showing a "Location" filter with options: New York (219), Belgrade (427), Berlin (208, selected), Magdeburg (210), Paris (241), and London (0). There is also a "Category #1" filter with options: filter item 1 (100), filter item 2 (200), and filter item 3 (300).

The main content area is titled "My Services" and shows a list of services. The list is sorted by "A-Z". Each service entry includes a checkbox, the service name, its stack, security, location, and a "deploy" button.

Service	Stack	Security	Location	Action
NGINX Virtual Machine IONOS NGINX	stack	security	Berlin	deploy
Rational Offices (21-21) Otus-M (21)	stack	security	Berlin	deploy
Rational Offices (23-23) The Service Power (23)	stack	security	Berlin	deploy

Nach der erfolgreichen Buchung können Sie den Service aus dem Portal heraus instanziiieren/ installieren...



gaia-x

Services Data Provider Help Language

NGINX Virtual Machine

Advanced Search

Filter

Location

- ☐ New York 219
- ☐ Belgrade 427
- ☒ Berlin 208
- ☐ Magdeburg 210
- ☐ Paris 241
- ☐ London 0

Category #1

- ☐ filter item 1 100
- ☐ filter item 2 200
- ☐ filter item 3 300

My Services

Sort: A-Z

NGINX Virtual Machine IONOS NGINX

Stack security Location Berlin

deploy

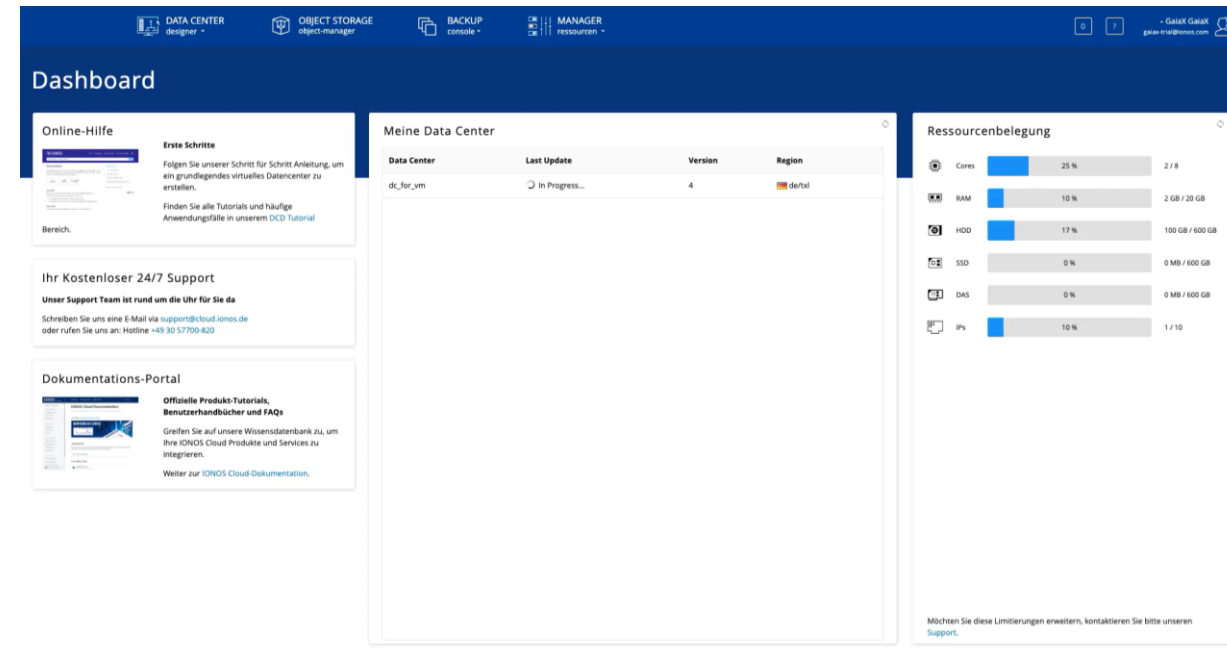
Service Successfully deployed

Provider: IONOS, Berlin

Virtual Machine Flavor: 4CPU, 8GB Ram, Intel

Service: NGINX

Close



DATA CENTER designer

OBJECT STORAGE object-manager

BACKUP console

MANAGER ressourcen

Dashboard

Online-Hilfe

Erste Schritte

Folgen Sie unserer Schritt für Schritt Anleitung, um ein grundlegendes virtuelles Datencenter zu erstellen.

Finden Sie alle Tutorials und häufige Anwendungsfälle in unserem DCD Tutorial

Bereich:

Ihr Kostenloser 24/7 Support

Unser Support Team ist rund um die Uhr für Sie da

Schreiben Sie uns eine E-Mail via support@cloud.ionos.de oder rufen Sie uns an: Hotline +49 30 57700-820

Dokumentations-Portal

Offizielle Produkt-Tutorials, Benutzerhandbücher und FAQs

Greifen Sie auf unsere Wissensdatenbank zu, um Ihre IONOS Cloud Produkte und Services zu integrieren.

Weiter zur IONOS Cloud Dokumentation.

Meine Data Center

Data Center	Last Update	Version	Region
dc_for_ym	In Progress...	4	de/bel

Ressourcenbelegung

- Cores 25 % 2 / 8
- RAM 10 % 2 GB / 20 GB
- HDD 17 % 100 GB / 600 GB
- SSD 0 % 0 MB / 600 GB
- DAS 0 % 0 MB / 600 GB
- IOPS 10 % 1 / 10

Möchten Sie diese Limitierungen erweitern, kontaktieren Sie bitte unseren Support.

Gebuchte Services können personalisiert gemonitort werden - nach dem ENISA EUCS Cloud Services Scheme | Prüflevel “High”

OverviewHistoryConfigurationSettings

Cloud Service Overview

[Streaming Platform as a Service](#)

This service provides users with a movie experience in which they can endlessly immerse themselves.

Compliant


Monitoring 1 control(s)

Last update: 8/31/2022, 6:18:56 PM

Compliant

Not Compliant

Pending



[Socialize as a Service](#)

Socialize provides a platform where users can chat and share images and videos without worrying about their privacy.

Not Compliant


Monitoring 2 control(s)

Last update: 8/31/2022, 6:18:44 PM

Compliant

Not Compliant

Pending



[Secure Storage as a Service](#)

This platforms uses the highest encryption standards to let users upload sensitive information.

Not Compliant


Monitoring 5 control(s)


Last update: 8/31/2022, 6:19:01 PM

Compliant

Not Compliant

Pending





OverviewHistoryConfigurationSettings

Secure Storage as a Service

This platforms uses the highest encryption standards to let users upload sensitive information.

Not Compliant

Monitoring 5 control(s)

Last update: 8/31/2022, 6:24:01 PM

Authentication Mechanisms

OAuthGrantTypes

APIOAuthProtected

Encryption of Data in Transit

TlsVersion

TlsCipherSuite

TlsCommonWeaknesses

Encryption of Data at Rest


AtRestEncryption

System Hardening

SystemComponentsIntegrity

Information Security Management System

CyberSecurityCertification



Zeit für Ihre Fragen



Hackathons

26 + 27. September



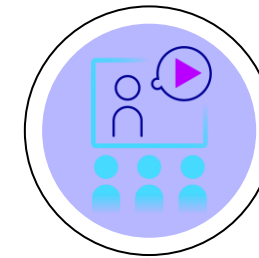
Whitepaper

GXFS Whitepaper



GitLab

GXFS Toolbox



Videos

GXFS Erklärvideos

