



Rescale Compliance & Security Handbook

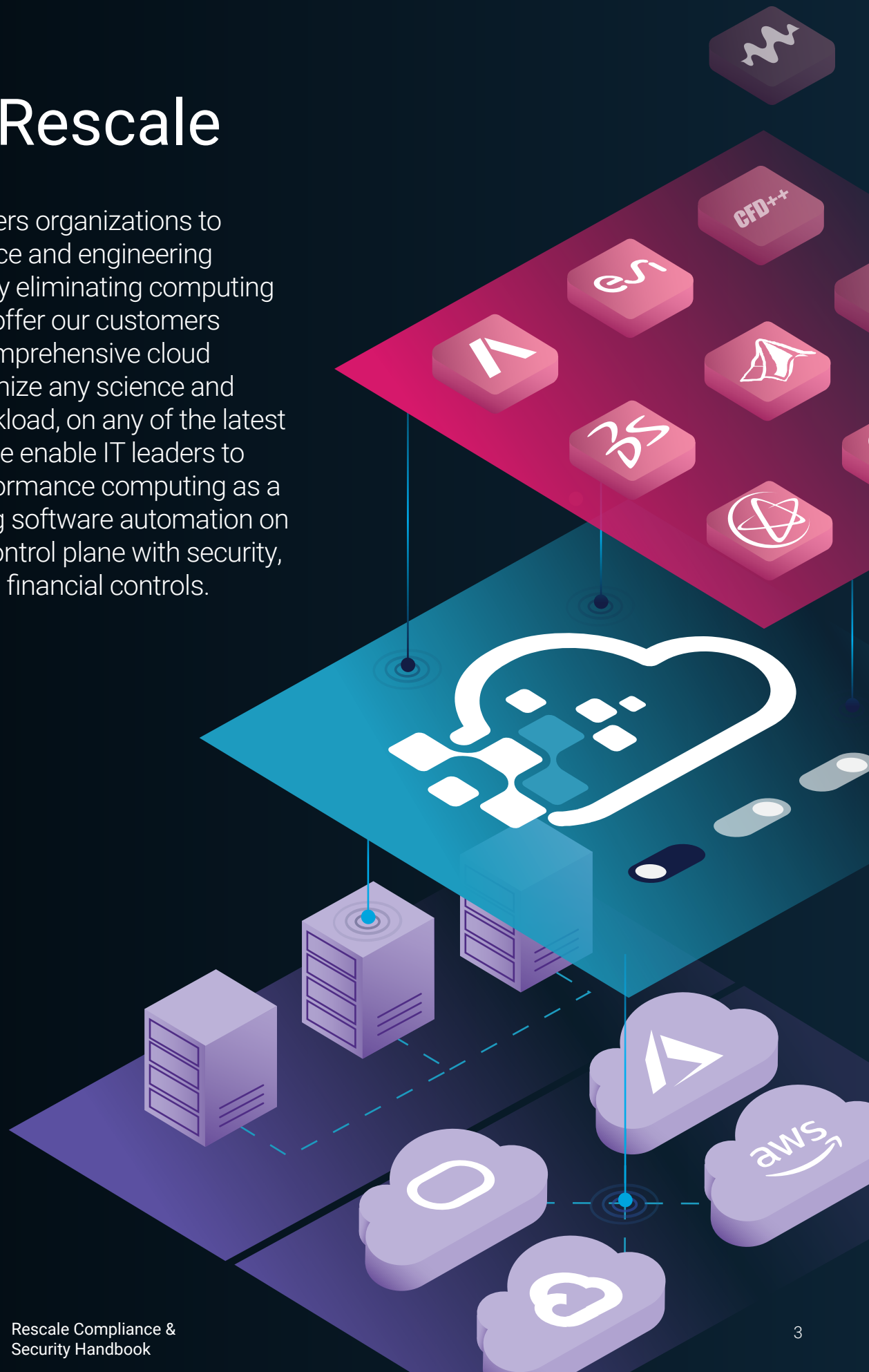
E-Book

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About Rescale

Rescale empowers organizations to accelerate science and engineering breakthroughs by eliminating computing complexity. We offer our customers a secure and comprehensive cloud platform to optimize any science and engineering workload, on any of the latest infrastructure. We enable IT leaders to deliver high performance computing as a service; including software automation on a hybrid cloud control plane with security, architecture, and financial controls.




Notice

One of the first questions we get from our customers is almost always about security and compliance logistics. In addition to traditionally skeptical attitudes about security in the cloud, recent breaches as seen in the news have understandably raised serious concerns for many companies.

To address relevant concerns and expectations from our customers, this document offers transparency in our approach, and we are committed to providing the industry's most secure intelligent control plane in the cloud. The Rescale platform provides a holistic approach to security, exceeding modern enterprise requirements by offering several features that are optimized for security management, backed by intelligence and support from our expert security team.

The information in this handbook represents the current state of compliance and security at Rescale as of the time of issue. Published 2021.



“Rescale gives us compliance, control, and economic visibility with the best of the cloud, allowing us to work quickly, efficiently and in parallel with each other.”

**Bissell Smith, CIO & EVP
Aerion Supersonic**

Our philosophy
about security
& compliance at
Rescale is built on
3 pillars.



Trust



Data
Sovereignty



Privacy



Trust

It is crucial for us that our customers trust that Rescale puts security first in everything we do, that Rescale will do what is best for our customers, and that Rescale will protect our customers' data as if it were our own.



```
elif _operation == "MIRROR_Y":
    mirror_mod.use_x = False
    mirror_mod.use_y = True
    mirror_mod.use_z = False
elif _operation == "MIRROR_Z":
    mirror_mod.use_x = False
    mirror_mod.use_y = False
    mirror_mod.use_z = True

#selection at the end -add back the deselected mirror modifier object
mirror_ob.select= 1
modifier_ob.select=1
bpy.context.scene.objects.active = modifier_ob
print("Selected" + str(modifier_ob)) # modifier ob is the active ob
mirror_ob.select = 0
None = bpy.context.selected_objects[0]
#bpy.data.objects[mirror_ob.name].select = 0
```



Data Sovereignty

Rescale respects the laws and regulations of the countries and geographic regions within which customer data resides.

Customer data belongs to our customers, and we do not have access to that data without the explicit endorsement of our customers.

Rescale provides our customers the tools needed to manage their data in ways that are compliant with their organizations' data protection needs, as well as compliant with local laws regarding data.



Privacy

Our customers' privacy is central to how we approach design and usage of our platform. We limit the amount of data we collect, and we secure that meta-data where it is stored. We also respect local laws and regulations surrounding customer privacy.



Overview

Rescale follows a comprehensive Secure Development Lifecycle internally, which we call the Rescale Secure Development Lifecycle (RSDL). The RSDL is overseen by the Rescale Security and Trust Office (RSTO), the same internal organization that oversees all Security, Privacy and Compliance functions within Rescale. It is the charter of the Rescale Security and Trust Office to ensure the privacy and security of our customers' data, and to build, deploy and maintain our infrastructure in accordance with multiple security compliance standards such as NIST, SOC 2, FedRAMP, CSA STAR, and ISO 27001. The Rescale Security and Trust Office also maintains compliance with various privacy frameworks such as the General Data Protection Regulation (GDPR), the California Consumer Privacy Act (CCPA), and the California Online Privacy Protection Act (COPPA).

In addition, Rescale performs mandatory security training on an ongoing basis to all employees, as well as mandatory security training at onboarding of new-hires. Rescale fosters a culture of security within the company, at all levels of the organization.

































Rescale + Customer Shared Responsibility Model

By working with Rescale, overall responsibility is significantly reduced compared to on-premise systems and DIY cloud.

In a pure on-premise deployment mode, the customer is fully responsible for all aspects of security as depicted by this chart.

In a cloud DIY model, there is a shared responsibility with the Cloud Service Provider, and the customer shoulders the majority of the responsibility in that model.

In a Platform-HPC model (like The Rescale Platform), the majority of the security and compliance areas are handled by the Platform-HPC Provider (Rescale) and Cloud Service Provider. Customers are only responsible (shared-responsibility) for certain compliance aspects, certain security operations aspects as well as certain user security aspects. Rescale assists customers in all three of these key areas.

	On-Premises	Cloud DIY	Platform-HPC
Compliance			
Security operations			
User security			
Logging, monitoring			
File security and integrity			
Redundancy and backups			
Application security			
OS security			
Network security			
Physical security			

Responsibility

 Full customer Responsibility

 Shared Responsibility

 Supported-Shared Responsibility

 Full Platform Coverage

Rescale Security Framework

Data Security

Data is always encrypted in transit and at rest.

Data Protection

All customer data is encrypted, and we segregate all customer data to prevent unauthorized access of that data.

User Security

Rescale supports SSO, MFA, company audit log, password complexity options, IP restrictions (Company administrators can configure per-company IP CIDR restrictions to access the web), budget, team & job restrictions.

Network Security

Rescale divides its internal networks into logical subnets for security and availability. Network access control is enforced by per-host firewalls with allow-list rules based on IP blocks, protocols, and ports.

Software Development

Rescale's products and features follow the Rescale Secure Development Lifecycle (RSDL) - a process built around security-centric requirement gathering, secure design, secure implementation, security testing, secure deployment, and secure maintenance.

In each of the stages, the relevant engineering teams consider the security impact of proposed changes and involve the Rescale Security and Trust Office for security guidance as needed.

Teams that are part of the Rescale Secure Development Lifecycle are trained to recognize and raise potential security concerns.

Rescale Insight Security Dashboards

By working with Rescale, overall responsibility is significantly reduced compared to on-premise systems and DIY cloud.

With the Rescale Insight dashboards, built-in tools offer our customers full control and insight over access, administration, budget, software, and hardware. Management tools help control users, access, security policy, software versions and workflows to ensure compliance and security standards are met. Managers have the ability to delegate admins, and create unique environments for each level, allowing efficient and secure operations.





“Rescale was the only service we could find that met ITAR and FedRAMP requirements which is essential for our business.”

Mike Krawczyk, Principal Mechanical Engineer, McCormick Stevenson

Security and Compliance Frameworks and Certifications

Rescale meets SOC 2, ITAR, CSA, TISAX Level 1, FedRAMP Moderate and ISO 27001 Compliance. Rescale meets privacy compliance with GDPR, CCPA and HIPAA. Rescale's Security program follows the NIST 800-53 framework.

We follow the NIST 800-53 framework.

Our data center partners are further certified or support the following standards:

PCI DSS Level 1, SOC 1/ ISAE 3402, SOC 2, SOC 3, ISO 9001, FIPS 140, CSA, FERPA, HIPAA/HITECH, HITRUST, FedRAMP (SM), DoD Impact Levels 2, 4-6, DIACAP and FISMA, ISO 27001, ITAR, EU Privacy Shield, GDPR, Cyber Essentials Plus (UK) and/or more depending on specific data centers.



Data Centers and Regions

United States

AWS
MS Azure
GCP
OCI
AWS GOV (US ITAR)
MS Azure (US ITAR)

Europe

AWS
MS Azure
GCP
OCI


Korea

AWS
MS Azure

Japan

AWS
MS Azure
OCI





Business Continuity

In case of an attack, Rescale has prepared an Incident Response and Disaster Recovery plan. This encompasses Business Continuity; outlining and specifying the different stages of an incident including identification, containment, investigation, remediation, and reporting. If an attack is suspected to be occurring or has occurred, Rescale staff follows the relevant sections of the plan to perform necessary actions.



High Performance Computing Built for the Cloud

About Rescale

Rescale is high performance computing built for the cloud to empower engineers while giving IT security and control. From supersonic jets to personalized medicine, industry leaders are bringing new product innovations to market with unprecedented speed and efficiency with Rescale, a cloud platform delivering intelligent full-stack automation and performance optimization.

IT leaders use Rescale to deliver HPC-as-a-Service with a secure control plane to deliver any application, on any architecture, at any scale on their cloud of choice.

Learn how you can modernize your high performance computing:



**Get in touch
with our team
of experts**



**Start your
free trial
today**



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additional
resources**