

No. 59

RISE WITH SAP

RISE with SAP Security

Who secures what between SAP, the hyperscaler and the customer, explained for beginners

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SECTRAININGNOW SERIES · NO. 59

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oJAYo
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CONTENTS

How to use this book 1

PART I · FOUNDATIONS

1 What RISE with SAP is 5
2 The shared responsibility model 7
3 Parties and the R&R document 9
4 Common misunderstandings 11

PART II · WHAT SAP SECURES

5 Tenancy and isolation 14
6 Connectivity 15
7 SAP administrator access 17
8 Patching and security notes 19
9 Certifications and the Trust Center 21
10 Resilience, backup and recovery 22

PART III · WHAT YOU SECURE

11 Identity and authentication 24
12 Roles and segregation of duties 25
13 Privileged and emergency access 27
14 Custom code and change management 29
15 Integrations and BTP 30
16 Logging and monitoring 31
17 Data protection and encryption 33
18 Non-production systems 34

PART IV · RUNNING RISE SECURELY

19 Incident response 36
20 Penetration testing 38
21 Onboarding and migration 39
22 Contracts and services 41

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23 Governance and metrics 42
24 Audit evidence 43
25 Worked example: Meridian Tools 45
Checklists 47
Glossary 49
Further reading 50

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BEFORE YOU BEGIN

How to use this book

What this book covers, who it is for, and how to use it.

RISE with SAP moves SAP S/4HANA into a cloud landscape that SAP operates on a hyperscaler such as AWS, Microsoft Azure or Google Cloud. Many teams assume that "SAP now handles security". That is only partly true. RISE uses a **shared responsibility model**: SAP and its hyperscaler secure the infrastructure and technical operations, while the customer still secures the application, its users and its data.

This book explains, for beginners, **who secures what** in RISE: the layers, the roles and responsibilities document, connectivity, SAP administrator access, patching, logging, identity, roles, custom code, integrations, incident response, penetration testing and governance.

Which versions this book covers

- **RISE with SAP S/4HANA Cloud, Private Edition**, which recent SAP material also calls **SAP Cloud ERP Private**, including its customer data center option.
- **SAP Enterprise Cloud Services (ECS)**, the SAP unit that operates the landscape.
- SAP BTP services commonly used with RISE.

Details differ by contract and offering. Always read **your own** roles and responsibilities document.

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Who this book is for

- **SAP security and Basis teams** moving to RISE.
- **CISOs and security architects** who must explain the model to management.
- **Auditors** who need to know what evidence comes from SAP and what from the customer.
- **Project managers** planning a RISE migration.

How the book is organized

- **Part I — Foundations** (Chapters 1–4): what RISE is, the shared responsibility model, the parties and documents, and common misunderstandings.
- **Part II — What SAP secures** (Chapters 5–10): tenancy, connectivity, SAP administrator access, patching, certifications and resilience.
- **Part III — What you secure** (Chapters 11–18): identity, roles, privileged access, custom code, integrations, logging, data protection and non-production systems.
- **Part IV — Running RISE securely** (Chapters 19–25): incidents, penetration testing, onboarding, contracts, governance, audit evidence and a worked example.
- **Reference**: checklists, glossary and further reading.

Callouts

TIP
Practical advice you can use straight away.

IN SAP
Product-specific details and names.

WATCH OUT
Common misunderstandings.

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KEY IDEA

The one thing to remember from a section.

A note on screens and examples

Screens are **simplified illustrations**, not copies of SAP screens. Company names, users and numbers in the examples are invented.

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PART I

Foundations

These chapters explain what RISE with SAP is, how the shared responsibility model works, who is involved, and where teams commonly misunderstand it.

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CHAPTER 1

What RISE with SAP is

RISE bundles software, infrastructure and operations in one contract.

RISE with SAP is SAP's offering that combines the S/4HANA software subscription, cloud infrastructure and technical managed services in **one contract** with SAP. The customer does not sign separately with the hyperscaler: SAP owns that relationship.

How it differs from on-premise

- **Infrastructure**: provided by a hyperscaler, contracted and managed by SAP.
- **Technical operations**: operating system, database and many Basis tasks are run by **SAP ECS**.
- **Access**: the customer has no access to the hyperscaler account or the operating system.
- **Application**: the customer still owns configuration, users, roles, custom code and data.

Deployment options

SAP materials describe several options, such as standard, tailored and a **customer data center** option where the landscape runs on dedicated hardware in the customer's own data center or a colocation site. Responsibilities can differ between them.

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Other SAP cloud models

GROW with SAP and **S/4HANA Cloud Public Edition** are SaaS offerings where SAP runs more of the application. This book focuses on the private edition.

KEY IDEA

RISE changes who runs the platform. It does not change who owns the business data, users and roles.

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CHAPTER 2

The shared responsibility model

SAP secures the cloud; the customer secures what is in it.

Cloud providers often describe security as **"security of the cloud"** and **"security in the cloud"**. In RISE, SAP and its hyperscaler handle security of the cloud, and the customer handles security in the cloud.

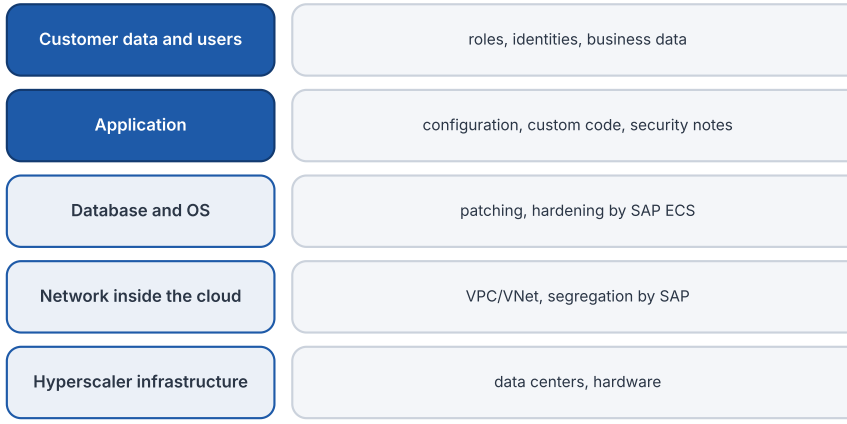


Figure 2.1 The layers of a RISE landscape and who mainly secures them.

SAP's side

SAP's materials and public summaries describe SAP as responsible for:

- **Physical data center security**, through the hyperscaler.
- **Network security** within the landscape.
- **Operating system and database** patching and hardening.

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