

ORACLE

Surge ahead with Cloud Native Apps

Building and modernizing apps on OCI

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In the past few years, app development has changed dramatically

Agility, economics, security, and scale are unstoppable forces

Developers are being tasked to do more than ever before, while also having to take into account a changing app development landscape

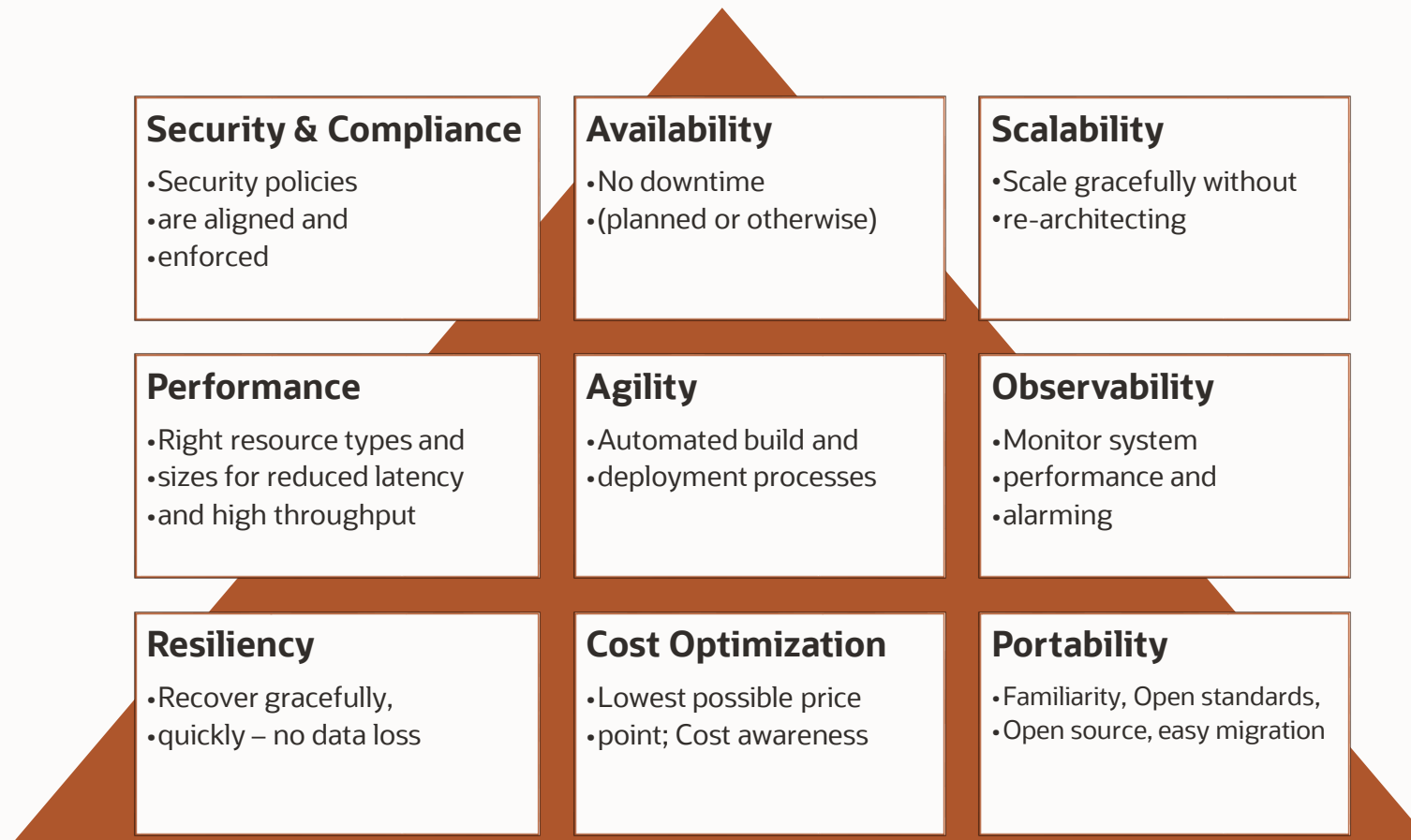
- New Development Methodologies
- New Development Frameworks
- New Economic Models
- New Security & Compliance Standards
- New Open Ecosystems





Reduced time developers spend actually coding.

All while building operationally-excellent, cost-efficient apps for a global audience at limitless scale.

Core requirements for Modern Apps





“How do you build a modern app?”

- Customers have a broad set of choices for app development
- With choices comes variety, complexity and **multiple decision points**

Simplify the architectural decision-making

Successfully Managing A Complex Set Of Tools And Processes



DevOps



Containers



Streaming
Platforms



Application Management

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DevOps



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Application
Management

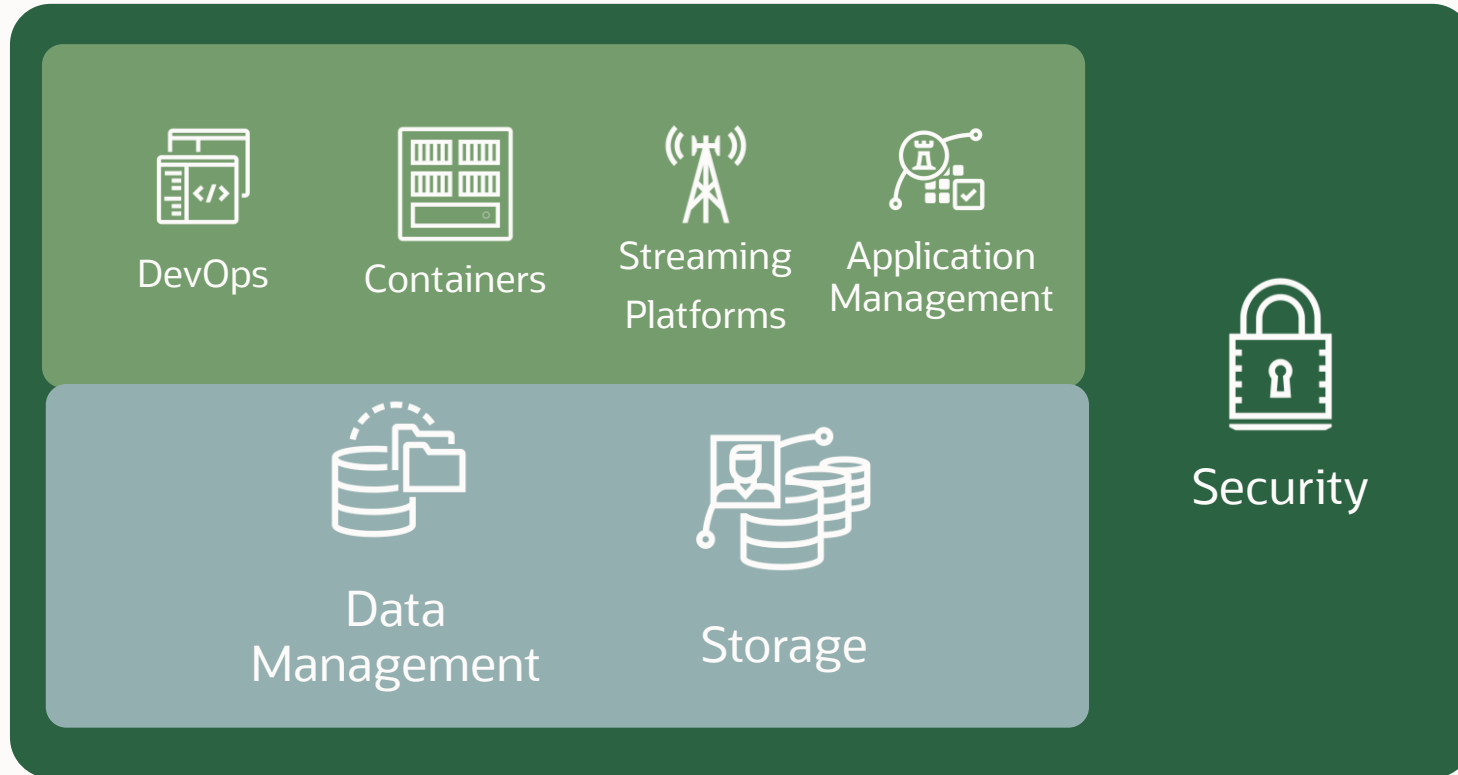


Data
Management

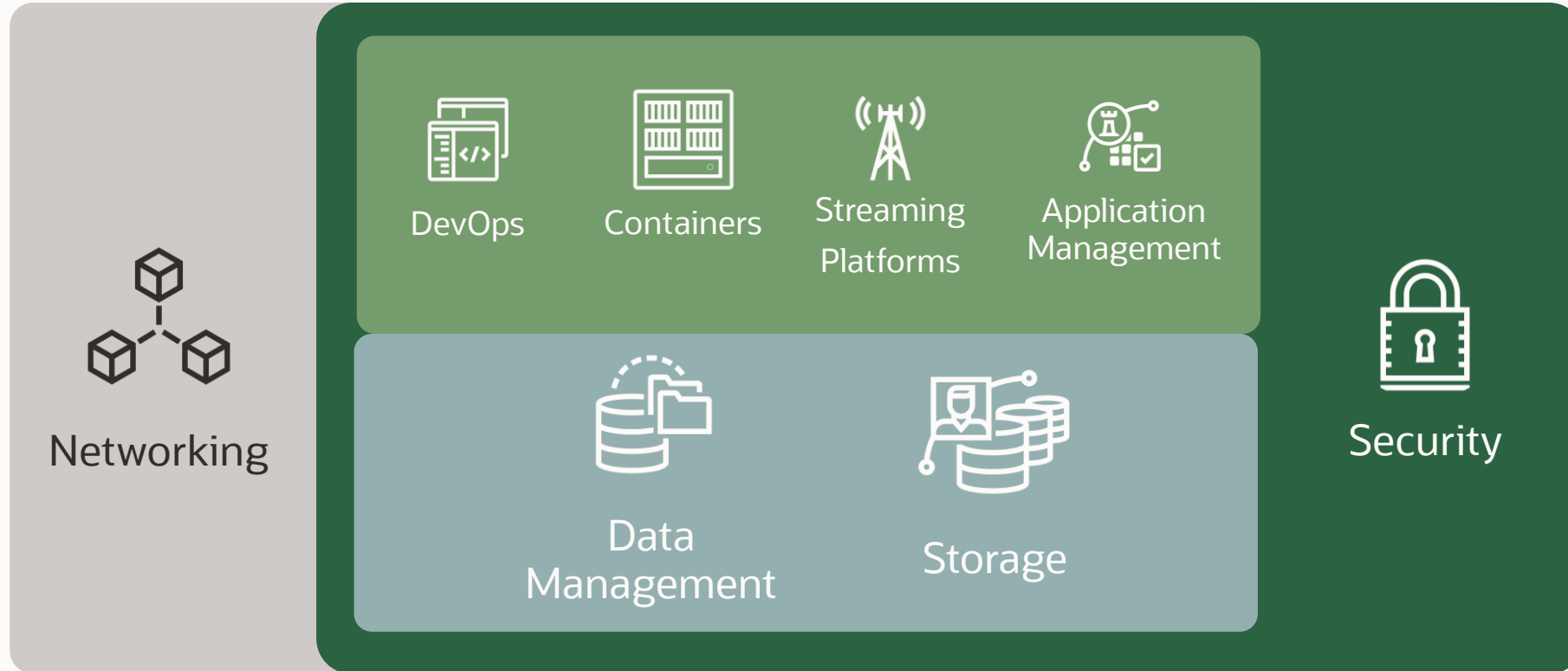


Storage

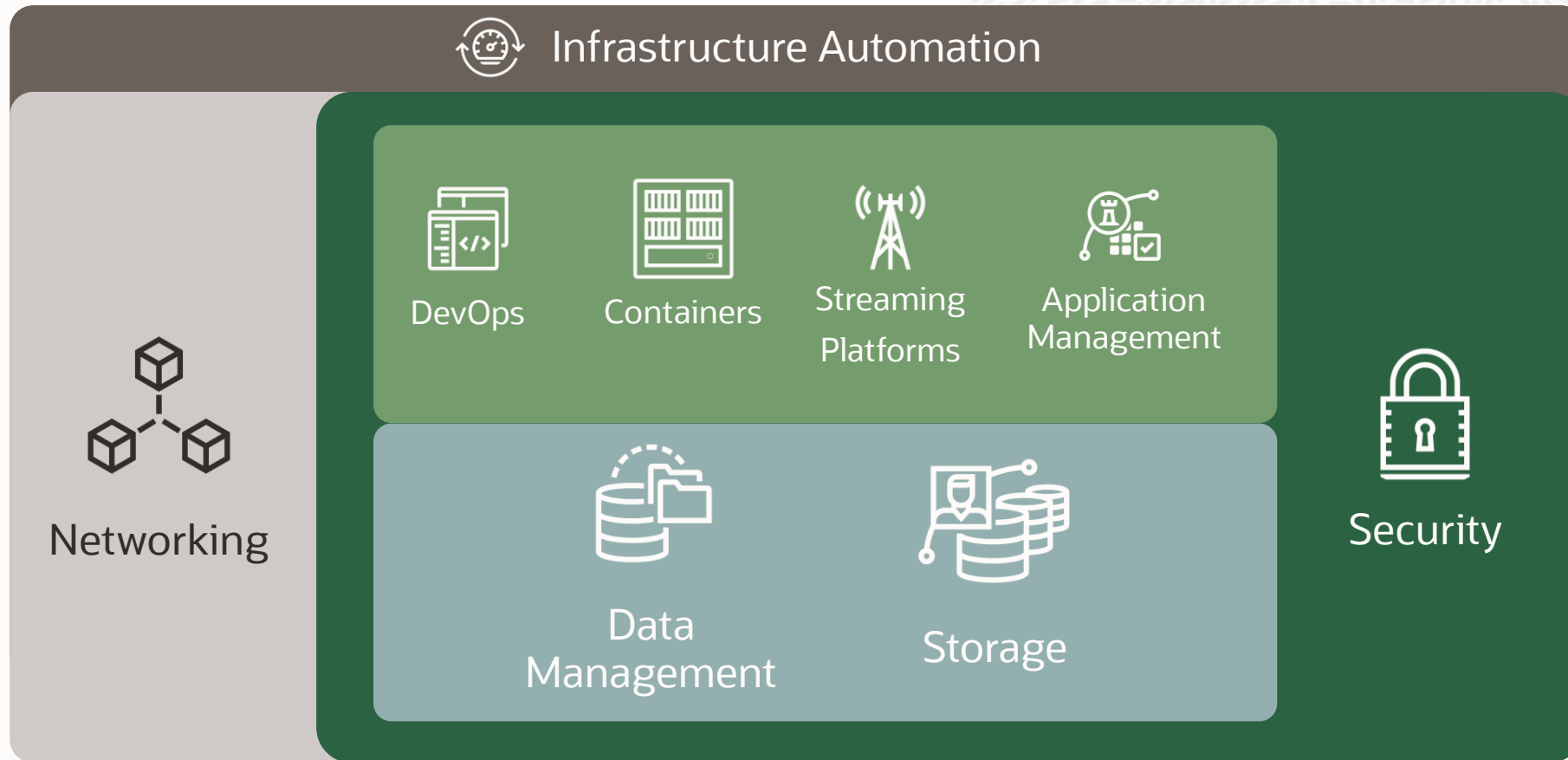
Successfully Managing A Complex Set Of Tools And Processes



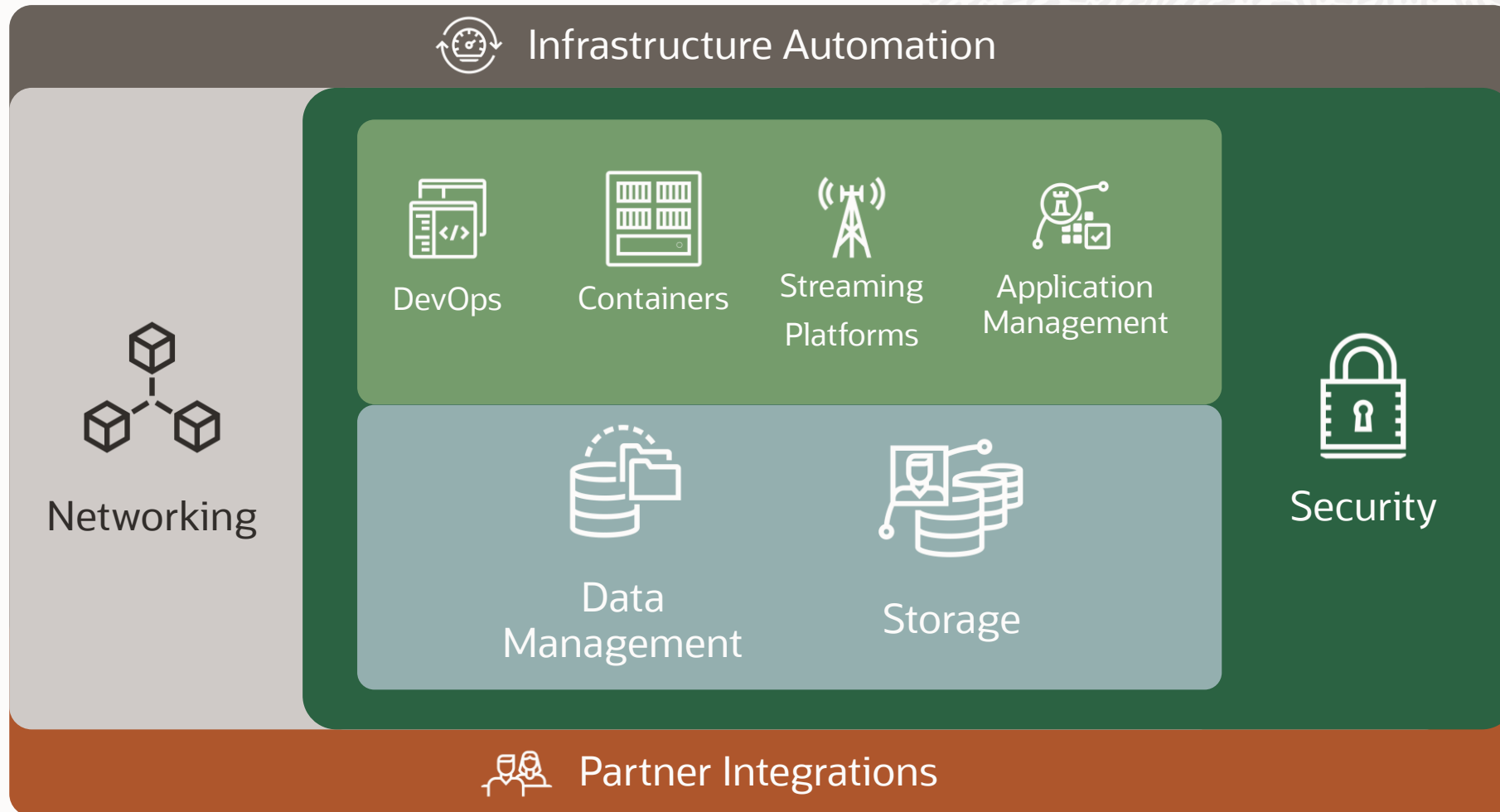
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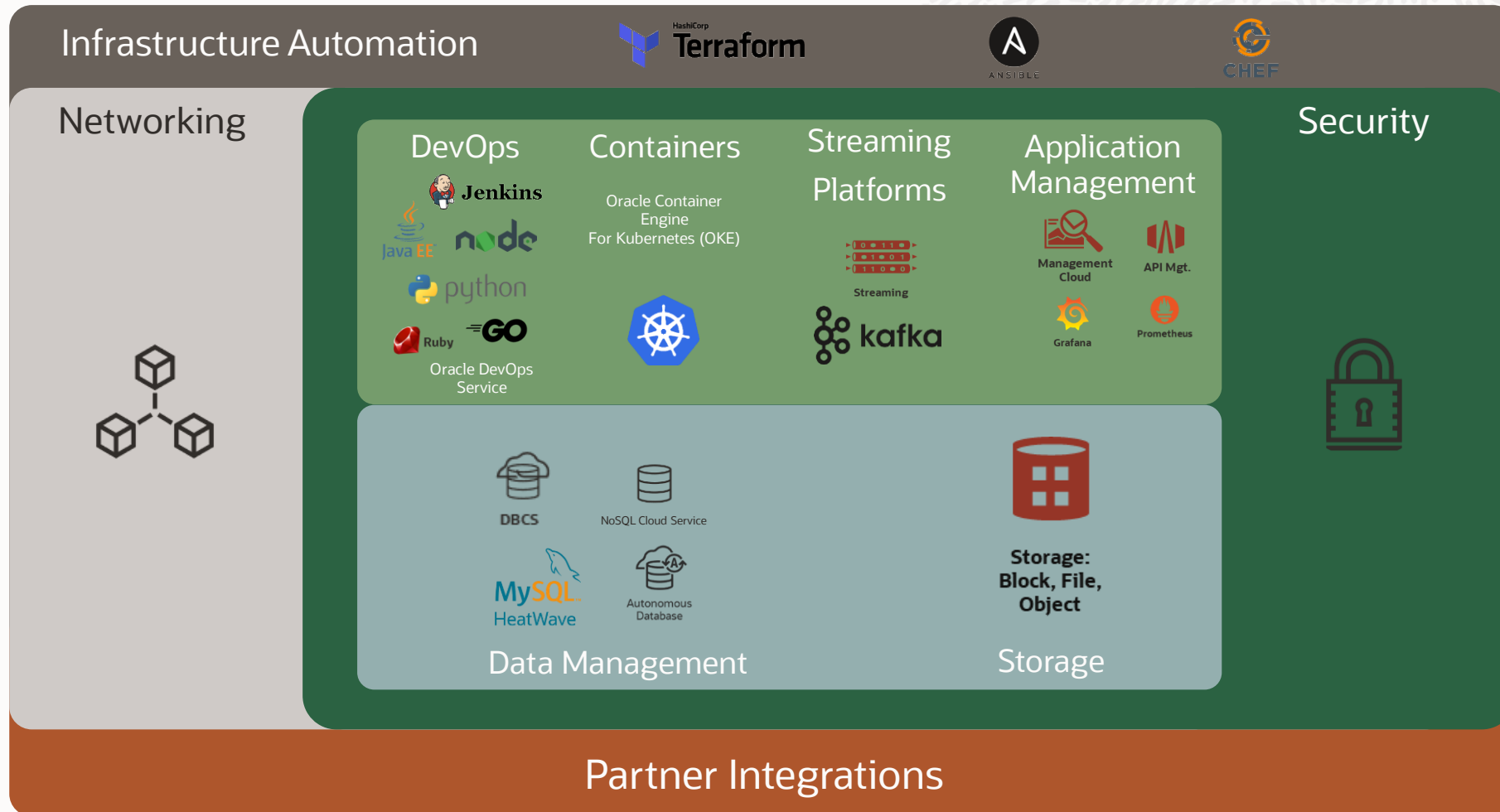
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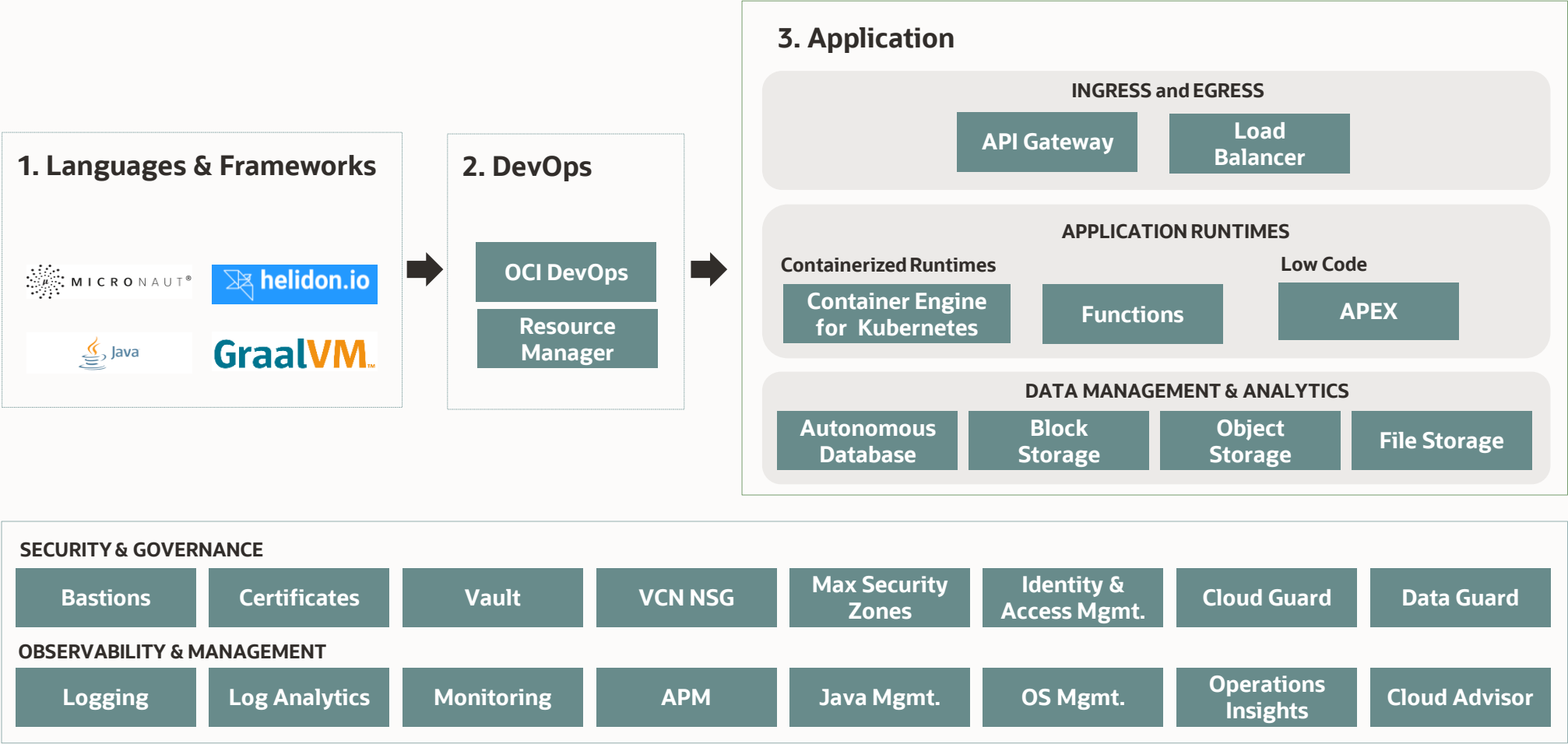
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Successfully Managing A Complex Set Of Tools And Processes



Oracle Cloud Native Technologies At a Glance



Our Approach

Opinionated set of best practices to build modern apps

Design Principles

Architecture Patterns

- 1 Use lightweight open-source frameworks and mature programming languages
- 2 Build your apps as services that communicate over APIs
- 3 Package and ship apps as lightweight containers
- 4 Automate the build, test, and deployment processes
- 5 Favor fully-managed services to run your apps and data stores
- 6 Keep application tier stateless
- 7 Use converged databases with full featured support across all your data
- 8 Instrument end-to-end monitoring and tracing
- 9 Eliminate single point of failure though automated data replication and failure recovery
- 10 Implement a defense-in-depth approach to secure the app lifecycle

Web/Mobile

Messaging

Event-driven

Big Data &
Analytics

AI/ML-Based

SaaS Extensions

Low Code

Data-centric

Quickstarts

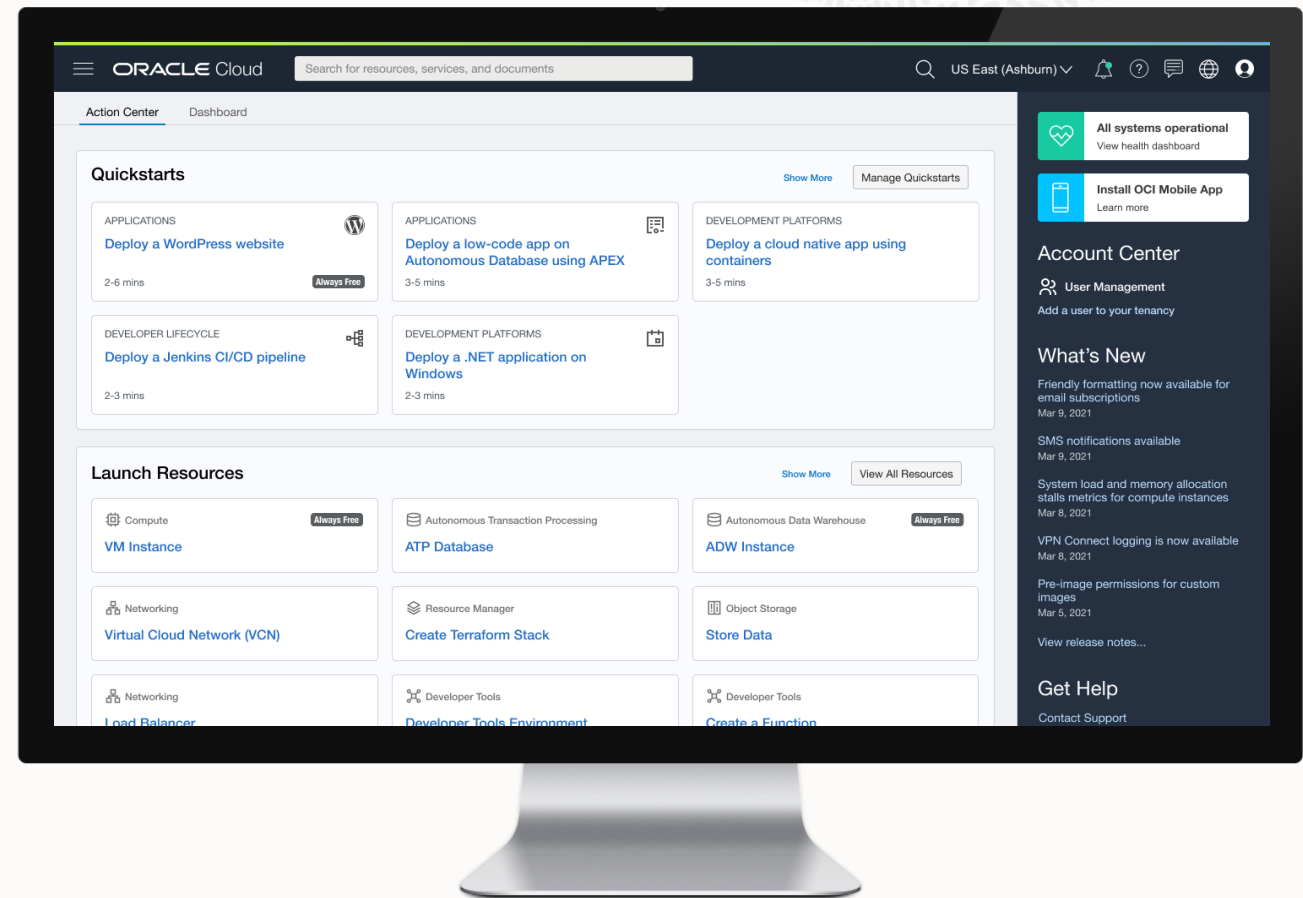
Move from idea to production using our templated applications – in 5 minutes or fewer

Deploy Applications in Minutes

- Stand up end-to-end solutions spanning containers, autonomous databases and other innovative technologies
- Deploy the most popular cloud-based solutions with a few clicks

Accelerate Speed to Value

- Open source, Terraform-based technology makes it easy to extend Quickstart solutions to whatever your organization needs



How does OCI help you build applications?



OPTION 1

App Templates

- Quickstarts are accessible from the Home experience in the OCI console
- **Use Case:** Most common applications
 - Wordpress websites
 - Jenkins CI/CD pipelines
 - Container-based applications, etc.
- **Value:** Speed to value

OPTION 2

Modern App Framework

- Reference Architectures are hosted in the Architecture Center
- **Use Case:** Any business application
 - Event-Driven or Messaging applications
 - Big Data & Analytics applications
 - SaaS extensions, low code apps, and more
- **Value:** Robust and highly customizable

Thank you

