

A Practical Approach To Understanding Oracle Cloud Infrastructure Autonomous

Oracle Cloud Infrastructure Autonomous is the next generation cloud platform that delivers high-performance computing power with advanced automation and security. It empowers businesses to build, deploy, and manage their applications in a secure and scalable environment. This article aims to provide a practical approach to understanding Oracle Cloud Infrastructure Autonomous, its features, and benefits.

to Oracle Cloud Infrastructure Autonomous

Oracle Cloud Infrastructure Autonomous is a comprehensive cloud platform that combines infrastructure as a service (IaaS), platform as a service (PaaS), and software as a service (SaaS) offerings. It provides a wide range of services such as compute, networking, storage, databases, analytics, and machine learning.

With Oracle Cloud Infrastructure Autonomous, businesses can scale their applications without worrying about the underlying infrastructure. It offers high availability, automatic patching, and self-driving capabilities, enabling businesses to focus on innovation rather than managing complex systems.



Oracle Autonomous Database in Enterprise Architecture: A practical approach to understanding Oracle Cloud Infrastructure Autonomous Databases for better consolidation, automation, and security

by Bal Mukund Sharma (Kindle Edition)

★★★★☆ 4.9 out of 5

Language : English

File size : 28053 KB
Text-to-Speech : Enabled
Screen Reader : Supported
Print length : 258 pages



Key Features of Oracle Cloud Infrastructure Autonomous

1. Self-Driving

Oracle Cloud Infrastructure Autonomous utilizes artificial intelligence and machine learning algorithms to automate various tasks such as database tuning, performance optimization, and security patching. It can automatically handle routine maintenance tasks, reducing human error and improving overall system performance.

The self-driving capabilities of Oracle Cloud Infrastructure Autonomous result in reduced downtime and improved system availability. Businesses can focus on developing and deploying applications without worrying about managing the underlying infrastructure.

2. High Scalability

Oracle Cloud Infrastructure Autonomous offers high scalability, allowing businesses to scale their applications based on demand. It provides flexible compute and storage options, enabling businesses to meet their workload requirements effectively.

With Oracle Cloud Infrastructure Autonomous, businesses can easily scale up or down their resources, ensuring optimal performance and cost efficiency. It offers

seamless integration with other Oracle Cloud services, making it easy to build and deploy complex applications.

3. Advanced Security

Data security is a top priority for businesses when considering a cloud platform. Oracle Cloud Infrastructure Autonomous offers advanced security features, including data encryption, network isolation, and automated threat detection and response.

The autonomous database in Oracle Cloud Infrastructure Autonomous automatically applies security patches and updates, reducing vulnerabilities and improving system security. It also offers comprehensive auditing and monitoring capabilities, providing businesses with visibility into their system's security posture.

4. Integrated Analytics and Machine Learning

Oracle Cloud Infrastructure Autonomous integrates analytics and machine learning capabilities, enabling businesses to leverage data-driven insights for informed decision-making. It offers a comprehensive suite of analytics tools and pre-built machine learning models, making it easy for businesses to derive meaningful insights from their data.

With Oracle Cloud Infrastructure Autonomous, businesses can empower their teams with advanced analytics and machine learning capabilities, driving innovation and competitive advantage. The integrated analytics and machine learning features help businesses discover patterns, predict trends, and optimize their operations.

Benefits of Oracle Cloud Infrastructure Autonomous

Oracle Cloud Infrastructure Autonomous offers several benefits to businesses, including:

1. Simplified Management

With the self-driving capabilities of Oracle Cloud Infrastructure Autonomous, businesses can reduce the administrative burden associated with managing complex systems. It automates routine tasks, ensuring high availability and reduced downtime.

2. Improved Performance

Oracle Cloud Infrastructure Autonomous optimizes system performance by automatically tuning databases and applying performance optimizations. It ensures optimal performance for applications, resulting in improved user experience and business productivity.

3. Cost Efficiency

Oracle Cloud Infrastructure Autonomous offers flexible pricing options, allowing businesses to pay only for the resources they use. It eliminates the need for upfront capital investment in infrastructure, reducing costs and improving budget management.

4. Scalability and Elasticity

Oracle Cloud Infrastructure Autonomous offers high scalability and elasticity, enabling businesses to scale their resources based on demand. It ensures optimal performance and cost efficiency, regardless of workload fluctuations.

5. Enhanced Security

Oracle Cloud Infrastructure Autonomous provides advanced security features, including automated threat detection and response, network isolation, and data

encryption. It ensures data security and compliance, protecting businesses against cyber threats.

6. Integrated Analytics and Machine Learning

Oracle Cloud Infrastructure Autonomous integrates analytics and machine learning capabilities, empowering businesses with data-driven insights. It helps businesses discover patterns, predict trends, and optimize operations, leading to improved decision-making and innovation.

Oracle Cloud Infrastructure Autonomous is a powerful cloud platform that combines infrastructure, platform, and software as a service capabilities. It offers advanced automation, high scalability, enhanced security, and integrated analytics and machine learning features.

With Oracle Cloud Infrastructure Autonomous, businesses can simplify management, improve performance, achieve cost efficiency, and ensure data security. It empowers businesses to focus on innovation and growth by automating routine tasks and providing self-driving capabilities.

Overall, understanding Oracle Cloud Infrastructure Autonomous and its practical applications can significantly benefit businesses in their cloud journey. It offers a reliable and secure environment for building, deploying, and managing applications, helping businesses stay competitive in the digital age.



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Get up to speed with the concepts relating to Oracle's Autonomous Databases (ADB) and implementation strategies for any workload or use case, including transactional, data warehousing, and non-relational databases

Key Features

- Explore ADB, its business benefits and architectural considerations
- Migrate the existing workload to ADB, explore high availability, and use cloud native methods for monitoring and event notifications
- Leverage APEX, JSON, the REST API, and SQL Developer Web features for rapid development

Book Description

Oracle Autonomous Database is built on the world's fastest Oracle Database Platform Exadata and is delivered on Oracle Cloud Infrastructure, customer data center (ExaCC), and Oracle Dedicated Region Cloud. This book is a fast-paced, hands-on to the most important aspects of Oracle Cloud Infrastructure Autonomous Databases.

You'll learn concepts required for designing disaster recovery using standby database deployment for Autonomous databases. As you progress, you'll understand how you can take advantage of automatic backup and restore.

Toward the concluding chapters, you'll get up to speed with the concepts required for managing Autonomous databases, along with the features of Autonomous Database security such as Data Safe and customer-managed keys for Vaults.

By the end of this Oracle book, you will be able to build and deploy an Autonomous database in OCI, migrate databases to ADB, comfortably set up additional high-availability features such as Autonomous Data Guard, and understand end-to-end operations with ADBs.

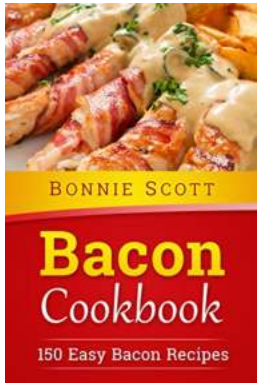
What you will learn

- Explore migration methods available for Autonomous databases, using both online and offline methods
- Discover how to create standby databases, RTO and RPO objectives, and Autonomous Data Guard operations
- Become well-versed with automatic and manual backups available in ADB
- Implement best practices relating to network, security, and IAM policies
- Manage database performance and log management in ADB
- Understand how to perform data masking and manage encryption keys in OCI's Autonomous databases

Who This Book Is For

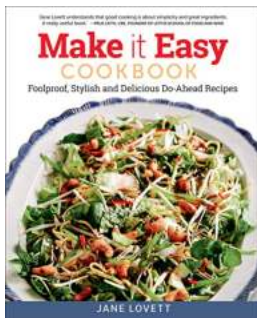
This book is for decision makers, enterprise cloud architects, solution consultants, cloud engineers, implementation partners, and technology students, as well as anyone who wants to learn about Oracle's Autonomous Databases delivered on Oracle Cloud Infrastructure. Beginner-level knowledge of Linux and OCI and networking concepts and databases, along with hands-on experience in Oracle

Cloud Infrastructure environments is required before getting started with this book.



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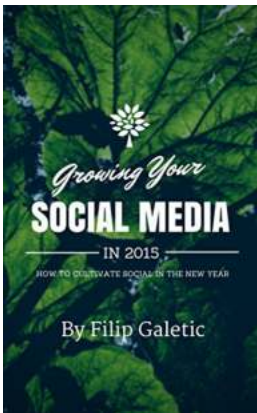
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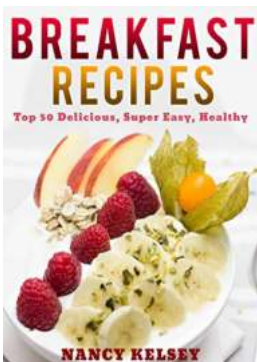
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