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    Titolo MongoDB cookbook : over 80 comprehensive recipes that will help you master the art of using and administering MongoDB 3 / / Cyrus Dasadia, Amol Nayak

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    Descrizione fisica 1 online resource (371 p.)

    Collana Quick answers to common problems

    Soggetti Non-relational databases

    Lingua di pubblicazione Inglese

    Formato Materiale a stampa

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    Note generali Includes index.

    Nota di contenuto Cover; Copyright; Credits; About the Authors; About the Reviewers; www.PacktPub.com; Table of Contents; Preface; Chapter 1: Installing and Starting the Server; Introduction; Installing single node MongoDB; Starting a single node instance using command-line options; Single node installation of MongoDB with options from the config file; Connecting to a single node in the Mongo shell with JavaScript; Connecting to a single node using a Java client; Connecting to a single node using a Python client; Starting multiple instances as part of a replica set

    Connecting to the replica set in the shell to query and insert dataConnecting to the replica set to query and insert data from a Java client; Connecting to the replica set to query and insert data using a Python client; Starting a simple sharded environment of two shards; Connecting to a shard in the shell and performing operations; Chapter 2: Command-line Operations and Indexes; Introduction; Creating test data; Performing simple querying, projections, and pagination from Mongo shell; Updating and deleting data from the shell; Creating index and viewing plans of queries

    Creating a background and foreground index in the shellCreating and understanding sparse indexes; Expiring documents after a fixed interval using the TTL index; Expiring documents at a given time using the TTL index; Chapter 3: Programming Language Drivers; Introduction; Executing query and insert operations with PyMongo;

Executing update and delete operations using PyMongo; Implementing aggregation in Mongo using PyMongo; Executing MapReduce in Mongo using PyMongo; Executing query and insert operations using a Java client; Executing update and delete operations using a Java client Implementing aggregation in Mongo using a Java clientExecuting MapReduce in Mongo using a Java client; Chapter 4: Administration; Introduction; Renaming a collection; Viewing collection stats; Viewing database stats; Manually padding a document; The mongostat and mongotop utilities; Getting current executing operations and killing them; Using profiler to profile operations; Setting up users in Mongo; Interprocess security in Mongo; Modifying collection behavior using the collMod command; Setting up MongoDB as a windows service; Replica set configurations

Stepping down as primary from the replica setExploring the local database of a replica set; Understanding and analyzing oplogs; Building tagged replica sets; Configuring the default shard for non-sharded collections; Manual split and migration of chunks; Domain-driven sharding using tags; Exploring the config database in a sharded setup; Chapter 5: Advanced Operations; Introduction; Atomic find and modify operations; Implementing atomic counters in Mongo; Implementing server-side scripts; Creating and tailing a capped collection cursors in MongoDB

Converting a normal collection to a capped collection

Sommario/riassunto	Harness the latest features of MongoDB 3 with this collection of 80 recipes ? from managing cloud platforms to app development, this book is a vital resource About This Book Get to grips with the latest features of MongoDB 3 Interact with the MongoDB server and perform a wide range of query operations from the shell From administration to automation, this cookbook keeps you up to date with the world's leading NoSQL database Who This Book Is For This book is engineered for anyone who is interested in managing data in an easy and efficient way using MongoDB. You do not need any prior knowledge of MongoDB, but it would be helpful if you have some programming experience in either Java or Python. What You Will Learn Install, configure, and administer MongoDB sharded clusters and replica sets Begin writing applications using MongoDB in Java and Python languages Initialize the server in three different modes with various configurations Perform cloud deployment and introduce PaaS for Mongo Discover frameworks and products built to improve developer productivity using Mongo Take an in-depth look at the Mongo programming driver APIs in Java and Python Set up enterprise class monitoring and backups of MongoDB In Detail MongoDB is a high-performance and feature-rich NoSQL database that forms the backbone of the systems that power many different organizations ? it's easy to see why it's the most popular NoSQL database on the market. Packed with many features that have become essential for many different types of software professionals and incredibly easy to use, this cookbook contains many solutions to the everyday challenges of MongoDB, as well as guidance on effective techniques to extend your skills and capabilities. This book starts with how to initialize the server in three different modes with various configurations. You will then be introduced to programming language drivers in both Java and Python. A new feature in MongoDB 3 is that you can connect to a single node using Python, set to make MongoDB even more popular with anyone working with Python. You will then learn a range of further topics including advanced query operations, monitoring and backup using MMS, as well as some very useful administration recipes including SCRAM-SHA-1 Authentication. Beyond that, you will also find recipes on cloud deployment, including guidance