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~~Cgroups, namespaces, and beyond: what are containers made from? Containers, Docker /u0026 Kubernetes On Azure For Beginners Kubernetes vs. Docker: It's Not an Either/Or Question Linux Containers Overview Docker Kubernetes~~
The container runtime is the software that is responsible for running containers. Kubernetes supports several container runtimes: Docker Docker is a software technology providing operating-system-level virtualization also known as containers. , containerd A container runtime with an emphasis on simplicity, robustness and portability , CRI-O A lightweight container runtime specifically for Kubernetes , and any implementation of the Kubernetes CRI (Container Runtime Interface).

~~Containers overview - Kubernetes~~

~~Linux Containers Overview Docker Kubernetes The container runtime is the software that is responsible for running~~

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containers. Kubernetes supports several container runtimes: Docker Docker is a software technology providing operating-system-level virtualization also known as containers., containerd A container runtime with an emphasis on ...

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Linux Containers Overview ker Introduction to Containers -

GitHub Pages The Linux kernel was created by Linus

Torvalds and released as an open source project in the

summer of 1991 Ker.nel - / k ɜrnl/ noun: the central or

most important part of

~~[EPUB] Linux Containers Overview Ker Kubernetes And Atomic~~

Eventually, deploying these containerized applications at a scale of thousands surpasses human ability. In this task, Kubernetes pods (a group of containers) help in open-source container orchestration. In the future, it is likely that Oracle Docker containers will run the microservices while Kubernetes will be used for container orchestration.

~~Oracle and Docker containers on Linux | Oracle in Docker ...~~

Similarly, Docker Inc., the company behind Docker, offers its own container orchestration engine, Docker Swarm. But even the company realized the fact that Kubernetes has risen to the point that even Docker for Desktop (MacOS and Windows) comes with its own Kubernetes distribution .

~~Kubernetes vs. Docker: A Primer – Container Journal~~

Container runtimes. The container runtime is the software

that is responsible for running containers. Kubernetes

supports several container runtimes: Docker, containerd, CRI-

O, and any implementation of the Kubernetes CRI (Container

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Runtime Interface). What's next. Read about container images; Read about Pods

~~Containers | Kubernetes~~

Kubernetes is an open source container management platform designed to run enterprise-class, cloud-enabled and web-scalable IT workloads. It is built upon the foundation laid by Google based on 15 years of experience in running containerized applications.

~~Kubernetes: An Overview — Linux.com~~

Kubernetes is not used to create the application containers; it actually needs a container platform to run, Docker being the most popular one. Kubernetes integrates with a large toolset built for and around containers and uses it in its own operations. Containers created with Docker or any of its alternatives can be managed, scaled and moved by Kubernetes, which also ensures failover management and health maintenance of the system.

~~Kubernetes vs Docker — Explore Linux~~

This is a quick overview and hands on walk through of Kubernetes which is an open source container cluster orchestration and management toolkit. The Kuberne...

~~Kubernetes | Docker | Containers | Overview and Hands on~~

...

Docker containers are similar to virtual machines, but don't create an entire virtual operating system. Instead, Docker enables the app to use the same Linux kernel as the system that it's running on. This allows the app package to only require parts not already on the host computer, reducing the package size and improving performance. Continuous availability, using Docker containers with tools like

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Kubernetes, is another reason for the popularity of containers. This enables multiple ...

~~Get started using Docker containers with Windows Subsystem ...~~

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When somebody should go to the book stores, search instigation by shop, shelf by shelf, it is in reality problematic.

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Docker is an open-source platform based on Linux containers for developing, shipping, and running applications inside containers. we can deploy many containers simultaneously on a given host. Containers are very fast and lightweight.

~~Docker Images | DockerFile | Kubernetes | Docker & Kubernetes~~

Kubernetes isn ' t the only container management tool around. Docker also has its own native container management tool called Docker Swarm. It lets you deploy containers as Swarms that you can interact with as a single unit, with all the container management taken care of. To be clear, Kubernetes does not interact with Docker Swarm in any fashion, only the Docker engine itself. Using Docker with Kubernetes. As previously mentioned, Docker and Kubernetes work at different levels.

~~Kubernetes? Docker? What is the difference?~~

Using containers for remote development and deploying applications with the Docker platform is a very popular

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solution with many benefits. Learn more about the variety of support offered by Microsoft tools and services, including Windows Subsystem for Linux (WSL), Visual Studio, Visual Studio Code, .NET, and a broad variety of Azure services.

~~Get started with Docker for remote development with containers~~

LinuxKit provides a Docker-native experience in IT infrastructures that include a variety of OS 's which are not bundled with a native version of Linux. Providing a standard version of Linux where-ever users ran Docker containers is a one of the primary motivations behind the development of LinuxKit.

~~Docker Linux Distributions that work with Kubernetes: LinuxKit~~

Docker & Kubernetes Expert Mamta who has 13+ years of relevant experience in Microsoft Azure is our instructor. She is subject matter experts and are trained by K21Academy for providing online training so that participants get a great learning experience.

~~Docker & Certified Kubernetes Administrator (CKA) — Cloud ...~~

Kubernetes is a portable, extensible, open-source platform for managing containerized workloads and services, that facilitates both declarative configuration and automation. It has a large, rapidly growing ecosystem. Kubernetes services, support, and tools are widely available.

Overview | Kubernetes

Kubernetes on CoreOS Container Linux Documentation 1.6.1 (latest) Kubernetes is powerful container management software inspired by Google 's operational experience with containers. Essential features like service discovery,

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automatic load-balancing, container replication and more are built in. Plus, it ' s all powered via an HTTP API.

Running Kubernetes on CoreOS Container Linux

After pulling the Oracle database schema application from the Github site, the developer protects the updated state of the database code and data by using Kubernetes to take a snapshot persistent volume container (PVC) of the database. After a round of destructive testing, the developer then restores the database to the preserved state by using Kubernetes and snapshot PVC.

Summary Kubernetes in Action is a comprehensive guide to effectively developing and running applications in a Kubernetes environment. Before diving into Kubernetes, the book gives an overview of container technologies like Docker, including how to build containers, so that even readers who haven't used these technologies before can get up and running. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the Technology Kubernetes is Greek for "helmsman," your guide through unknown waters. The Kubernetes container orchestration system safely manages the structure and flow of a distributed application, organizing containers and services for maximum efficiency. Kubernetes serves as an operating system for your clusters, eliminating the need to factor the underlying network and server infrastructure into your designs. About the Book Kubernetes in Action teaches you to use Kubernetes to deploy container-based distributed applications. You'll start with an overview of Docker and Kubernetes before building your first Kubernetes cluster. You'll gradually expand your

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initial application, adding features and deepening your knowledge of Kubernetes architecture and operation. As you navigate this comprehensive guide, you'll explore high-value topics like monitoring, tuning, and scaling. What's Inside Kubernetes' internals Deploying containers across a cluster Securing clusters Updating applications with zero downtime About the Reader Written for intermediate software developers with little or no familiarity with Docker or container orchestration systems. About the Author Marko Luksa is an engineer at Red Hat working on Kubernetes and OpenShift. Table of Contents PART 1 - OVERVIEW Introducing Kubernetes First steps with Docker and Kubernetes PART 2 - CORE CONCEPTS Pods: running containers in Kubernetes Replication and other controllers: deploying managed pods Services: enabling clients to discover and talk to pods Volumes: attaching disk storage to containers ConfigMaps and Secrets: configuring applications Accessing pod metadata and other resources from applications Deployments: updating applications declaratively StatefulSets: deploying replicated stateful applications PART 3 - BEYOND THE BASICS Understanding Kubernetes internals Securing the Kubernetes API server Securing cluster nodes and the network Managing pods' computational resources Automatic scaling of pods and cluster nodes Advanced scheduling Best practices for developing apps Extending Kubernetes

The way developers design, build, and run software has changed significantly with the evolution of microservices and containers. These modern architectures use new primitives that require a different set of practices than most developers, tech leads, and architects are accustomed to. With this focused guide, Bilgin Ibryam and Roland Huß from Red Hat provide common reusable elements, patterns, principles, and

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practices for designing and implementing cloud-native applications on Kubernetes. Each pattern includes a description of the problem and a proposed solution with Kubernetes specifics. Many patterns are also backed by concrete code examples. This book is ideal for developers already familiar with basic Kubernetes concepts who want to learn common cloud native patterns. You ' ll learn about the following pattern categories: Foundational patterns cover the core principles and practices for building container-based cloud-native applications. Behavioral patterns explore finer-grained concepts for managing various types of container and platform interactions. Structural patterns help you organize containers within a pod, the atom of the Kubernetes platform. Configuration patterns provide insight into how application configurations can be handled in Kubernetes. Advanced patterns covers more advanced topics such as extending the platform with operators.

Secure your applications and development environments with Docker and Kubernetes Key Featuresa- Introducing Container platforms (Docker, Kubernetes, Swarm, OpenShift)a- Discover how to manage high availability with Docker Swarm and Kubernetesa- Learn how Docker can manage the security in images and containersa- Discover how Docker can be integrated into development workflows in applicationsa- Discover vulnerabilities in the Docker containers and images with practical examples to secure your container-based applicationsa- Discover tools for monitoring and administration Docker and Kubernetes applicationsDescriptionThrough this book, we will introduce the DevOps tools ecosystem and the main containers orchestration tools through an introduction to some platforms such as Kubernetes, Docker Swarm, and OpenShift.Among other topics, both good practices will be

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addressed when constructing the Docker images as well as best security practices to be applied at the level of the host in which those containers are executed, from Docker's own daemon to the rest of the components that make up its technological stack. We will review the topics such as static analysis of vulnerabilities on Docker images, the signing of images with Docker Content Trust and their subsequent publication in a Docker Registry will be addressed. Also, we will review the security state in Kubernetes. In the last section, we will review container management and administration open source tools for IT organizations that need to manage and monitor container-based applications, reviewing topics such as monitoring, administration, and networking in Docker.

What will you learn?

- Learn fundamental DevOps skills and tools, starting with the basic components and concepts of Docker.
- Learn about Docker as a platform for the deployment of containers and Docker images taking into account the security of applications.
- Learn about tools that allow us to audit the security of the machine where we execute Docker images, finding out how to secure your Docker host.
- Learn how to secure your Docker environment and discover vulnerabilities and threats in Docker images.
- Learn about creating and deploying containers in a security way with Docker and Kubernetes.
- Learn about monitoring and administration in Docker with tools such as cadvisor, sysdig, portainer, and Rancher.

Who this book is for

This book covers different techniques to help developers improve DevOps and container security skills and can be useful for people who are involved in software development and want to learn how Docker works from a security point of view. It is recommended that readers have the knowledge about UNIX commands and they work with commands terminal.

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administrationAbout the AuthorJose Manuel Ortega is a
software engineer and security researcher with a special
focus on new technologies, open source, security and testing.
In recent years, he is interested in security development,
especially with Python and security best practices with
Docker and Kubernetes. Conferences and talks related with
python, security and docker are available on his personal
website <http://jmortega.github.io>.Your Blog links:
<http://jmortega.github.io/Your LinkedIn>
Profile:<https://www.linkedin.com/in/jmortega1/>

Apply Kubernetes beyond the basics of Kubernetes clusters
by implementing IAM using OIDC and Active Directory,
Layer 4 load balancing using MetalLB, advanced service
integration, security, auditing, and CI/CD Key Features Find
out how to add enterprise features to a Kubernetes cluster
with theory and exercises to guide you Understand advanced
topics including load balancing, externalDNS, IDP
integration, security, auditing, backup, and CI/CD Create
development clusters for unique testing requirements,
including running multiple clusters on a single server to
simulate an enterprise environment Book Description
Containerization has changed the DevOps game completely,
with Docker and Kubernetes playing important roles in
altering the flow of app creation and deployment. This book
will help you acquire the knowledge and tools required to
integrate Kubernetes clusters in an enterprise environment.
The book begins by introducing you to Docker and
Kubernetes fundamentals, including a review of basic

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Kubernetes objects. You'll then get to grips with containerization and understand its core functionalities, including how to create ephemeral multinode clusters using kind. As you make progress, you'll learn about cluster architecture, Kubernetes cluster deployment, and cluster management, and get started with application deployment. Moving on, you'll find out how to integrate your container to a cloud platform and integrate tools including MetalLB, externalDNS, OpenID connect (OIDC), pod security policies (PSPs), Open Policy Agent (OPA), Falco, and Velero. Finally, you will discover how to deploy an entire platform to the cloud using continuous integration and continuous delivery (CI/CD). By the end of this Kubernetes book, you will have learned how to create development clusters for testing applications and Kubernetes components, and be able to secure and audit a cluster by implementing various open-source solutions including OpenUnison, OPA, Falco, Kibana, and Velero. What you will learn

- Create a multinode Kubernetes cluster using kind
- Implement Ingress, MetalLB, and ExternalDNS
- Configure a cluster
- OIDC using impersonation
- Map enterprise authorization to Kubernetes
- Secure clusters using PSPs and OPA
- Enhance auditing using Falco and EFK
- Back up your workload for disaster recovery and cluster migration
- Deploy to a platform using Tekton, GitLab, and ArgoCD

Who this book is for This book is for anyone interested in DevOps, containerization, and going beyond basic Kubernetes cluster deployments. DevOps engineers, developers, and system administrators looking to enhance their IT career paths will also find this book helpful. Although some prior experience with Docker and Kubernetes is recommended, this book includes a Kubernetes bootcamp that provides a description of Kubernetes objects to help you if you are new to the topic or need a refresher.

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Secure your applications and development environments with Docker and Kubernetes

DESCRIPTION Through this book, we will introduce the DevOps tools ecosystem and the main containers orchestration tools through an introduction to some platforms such as Kubernetes, Docker Swarm, and OpenShift. Among other topics, both good practices will be addressed when constructing the Docker images as well as best security practices to be applied at the level of the host in which those containers are executed, from Docker's own daemon to the rest of the components that make up its technological stack. We will review the topics such as static analysis of vulnerabilities on Docker images, the signing of images with Docker Content Trust and their subsequent publication in a Docker Registry will be addressed. Also, we will review the security state in Kubernetes. In the last section, we will review container management and administration open source tools for IT organizations that need to manage and monitor container-based applications, reviewing topics such as monitoring, administration, and networking in Docker.

KEY FEATURES - Introducing Container platforms (Docker, Kubernetes, Swarm, OpenShift) - Discover how to manage high availability with Docker Swarm and Kubernetes - Learn how Docker can manage the security in images and containers - Discover how Docker can be integrated into development workflows in applications - Discover vulnerabilities in the Docker containers and images with practical examples to secure your container-based applications - Discover tools for monitoring and administration Docker and Kubernetes applications

WHAT WILL YOU LEARN - Learn fundamental DevOps skills and tools, starting with the basic components and concepts of Docker. - Learn about Docker as a platform for the deployment of containers and Docker images taking into account the security of applications. - Learn about tools that

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allow us to audit the security of the machine where we execute Docker images, finding out how to secure your Docker host. - Learn how to secure your Docker environment and discover vulnerabilities and threats in Docker images. - Learn about creating and deploying containers in a security way with Docker and Kubernetes. - Learn about monitoring and administration in Docker with tools such as cadvisor, sysdig, portainer, and Rancher. WHO THIS BOOK IS FOR This book covers different techniques to help developers improve DevOps and container security skills and can be useful for people who are involved in software development and want to learn how Docker works from a security point of view. It is recommended that readers have the knowledge about UNIX commands and they work with commands terminal. TABLE OF CONTENTS 1. Getting started with DevOps 2. Container platforms 3. Managing Containers and Docker images 4. Getting started with Docker security 5. Docker host security 6. Docker images security 7. Auditing and analyzing vulnerabilities in Docker containers 8. Kubernetes security 9. Docker container networking 10. Docker container monitoring 11. Docker container administration

A book that will help you become the Mozart of Microservices KEY FEATURES All codes tested on the latest software versions with visual illustrations. Covers bleeding-edge DevOps skills to build a future-proof job profile. Includes expert advice, industry insights, and logical analogies to craft a technical narrative. DESCRIPTION “Cracking Containers with Docker and Kubernetes” aims to be a comprehensive guide for learning and referencing all of the essential topics related to creating, managing, and running containers with Docker and Kubernetes. Students and professionals working on Containerized web applications can use this book to lay strong conceptual foundations and

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sharpen their skills. The first few chapters provide an overall picture of resource virtualization in computing and demonstrate the potential of containers. The intermediate chapters get to extensive detail about Docker and Kubernetes. You will gain in-demand skills such as Docker and Kubernetes CLI, as well as how to write Dockerfiles, Compose files, and Kubernetes YAML Manifests. Topics like Networking, Storage, Access Control, and Security are discussed with real-world implications. The final chapters move Kubernetes and Containers to the cloud while expanding their ecosystem with tools for Serverless deployment, logging and monitoring, CI/CD, and more for a highly available production-ready setup. After reading this book you will be able to plan your application 's migration to containers, prepare for Docker and Kubernetes Certifications, or apply for six digit DevOps jobs. **WHAT YOU WILL LEARN** Learn to create, manage and orchestrate Containers using Docker and Kubernetes. Practice writing Dockerfiles, Compose Files and Kubernetes YAML Manifests.

Perform container networking, storage, authorization, security, and scaling in a production environment. Explore shipping, CI/CD, Service Mesh, Logging & Monitoring in detail. Get the Cracking Containers with Docker and Kubernetes know-how of hosted and Serverless Kubernetes on Cloud. **WHO THIS BOOK IS FOR** This book is intended for students, enthusiasts, and professionals in Software Development, DevOps, and Cloud Computing who want to put their career progress on a pedestal by reducing the operational and scaling costs of their web applications and optimizing their IT infrastructure utilization. **TABLE OF CONTENTS** 1. Prologue to the Containers 2. Hello Containers! 3. Introduction to Docker 4. Writing Dockerfiles 5. Gearing up the toolbox! 6. Connectivity and Storage 7. Multi Container Applications with Docker Compose 8.

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Container Orchestration with Docker Swarm 9. Introduction to Kubernetes 10. Workload Orchestration with Kubernetes 11. Networking and Storage with Kubernetes 12. Advanced Orchestration with Kubernetes 13. Hosted Kubernetes on Cloud 14. Containers in Production with GKE 15. Serverless Containers 16. The Checkpoint

The Practical Guide to Running Docker on Linux Systems or Cloud Environments Whether on your laptop or a remote cloud, Docker can transform how you create, test, deploy, and manage your most critical applications. In Docker Containers , Christopher Negus helps you master Docker containerization from the ground up. You'll start out running a few Docker container images in Ubuntu, Fedora, RHEL, CoreOS, or Project Atomic. By the time you've finished, you'll be deploying enterprise-quality, multi-container Kubernetes setups in modern Linux and cloud environments. Writing for system administrators, software developers, and technology enthusiasts, Negus touches on every aspect of working with Docker: setting up containerized applications, working with both individual and multiple containers, running containers in cloud environments, and developing containers. Teaching through realistic examples of desktop applications, system services, and games, Negus guides you through building and deploying your own Dockerized applications. As you build your expertise, you'll also learn indispensable Docker best practices for building and integrating containers, managing Docker on a day-to-day basis, and much more: *

Understanding what Docker is and what you can do with it * Installing Docker on standard Linux or specialized container operating systems such as Atomic Host and CoreOS * Setting up a container runtime environment and private Docker

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Registry * Creating, running, and investigating Docker images and containers * Finding, pulling, saving, loading, and tagging container images * Pulling and pushing containers between local systems and Docker Registries * Integrating Docker containers with host networking and storage * Building containers with the docker build command and Dockerfile files * Minimizing space consumption and erasing unneeded containers * Accessing special host privileges from within a container * Orchestrating multiple containers into complex applications with Kubernetes * Using super privileged containers in cloud environments * Managing containers in the cloud with Cockpit * Getting started with Docker container development * Learning container build techniques from shared Dockerfiles This book is part of the Pearson Content Update Program. As the technology changes, sections of this book will be updated or new sections will be added. The updates will be delivered to you via a free Web Edition of this book, which can be accessed with any Internet connection.

To facilitate scalability and resilience, many organizations now run applications in cloud native environments using containers and orchestration. But how do you know if the deployment is secure? This practical book examines key underlying technologies to help developers, operators, and security professionals assess security risks and determine appropriate solutions. Author Liz Rice, Chief Open Source Officer at Isovalent, looks at how the building blocks commonly used in container-based systems are constructed in Linux. You'll understand what's happening when you deploy containers and learn how to assess potential security risks that could affect your deployments. If you run container applications with kubectl or docker and use Linux command-line tools such as ps and grep, you're ready to get

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started. Explore attack vectors that affect container deployments Dive into the Linux constructs that underpin containers Examine measures for hardening containers Understand how misconfigurations can compromise container isolation Learn best practices for building container images Identify container images that have known software vulnerabilities Leverage secure connections between containers Use security tooling to prevent attacks on your deployment

Learn how to deploy and test Linux-based Docker containers with the help of real-world use cases Key Features Understand how to make a deployment workflow run smoothly with Docker containers Learn Docker and DevOps concepts such as continuous integration and continuous deployment (CI/CD) Gain insights into using various Docker tools and libraries Book Description Docker is the de facto standard for containerizing apps, and with an increasing number of software projects migrating to containers, it is crucial for engineers and DevOps teams to understand how to build, deploy, and secure Docker environments effectively. Docker for Developers will help you understand Docker containers from scratch while taking you through best practices and showing you how to address security concerns. Starting with an introduction to Docker, you'll learn how to use containers and VirtualBox for development. You'll explore how containers work and develop projects within them after you've explored different ways to deploy and run containers. The book will also show you how to use Docker containers in production in both single-host set-ups and in clusters and deploy them using Jenkins, Kubernetes, and Spinnaker. As you advance, you'll get to grips with monitoring, securing, and scaling Docker using tools such as Prometheus and Grafana. Later, you'll be able to deploy

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Docker containers to a variety of environments, including the cloud-native Amazon Elastic Kubernetes Service (Amazon EKS), before finally delving into Docker security concepts and best practices. By the end of the Docker book, you'll be able to not only work in a container-driven environment confidently but also use Docker for both new and existing projects. What you will learn

- Get up to speed with creating containers and understand how they work
- Package and deploy your containers to a variety of platforms
- Work with containers in the cloud and on the Kubernetes platform
- Deploy and then monitor the health and logs of running containers
- Explore best practices for working with containers from a security perspective
- Become familiar with scanning containers and using third-party security tools and libraries

Who this book is for If you're a software engineer new to containerization or a DevOps engineer responsible for deploying Docker containers in the cloud and building DevOps pipelines for container-based projects, you'll find this book useful. This Docker containers book is also a handy reference guide for anyone working with a Docker-based DevOps ecosystem or interested in understanding the security implications and best practices for working in container-driven environments.

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