



**LIVE**

# Webinar Series

19 April 2023

How to Deploy Multicloud Applications With Megaport ONE





# LIVE Webinar Series



## How To Deploy Multicloud Applications Using Megaport ONE

April 19th, 2023 - 3:00PM BST / 4:00PM CEST (EMEA)



Marcelo McAndrew,  
Senior Product Designer



Michael Vitale,  
VP, Advanced Software



Nathan Grey,  
Senior DevOps Engineer

# Our Speakers



**Michael Vitale**  
VP, Advanced Software



**Nathan Grey**  
Senior DevOps Engineer



**Marcelo McAndrew**  
Senior Product Designer

# About Megaport



## The leader in Network-as-a-Service (NaaS)

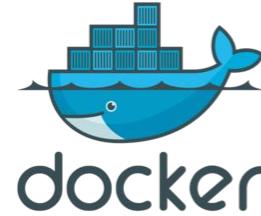
Megaport operates the largest Software Defined Network (SDN) platform globally, providing our 2,700+ customers the ability to connect to 802+ enabled data centres in 145 cities throughout 25 countries in North America, Europe, Asia, and Australia. Our Network as a Service solutions remove the need for customers to invest in direct, physical, point-to-point interconnection. We operate a standards-based, neutral platform, and have partnerships with 119 unique data centre operators, allowing our customers to connect to applications without the limitations of being tied to a particular data centre operator or geographic connection location.



Learn more about Megaport: <https://www.megaport.com/>

# Megaport ONE

Cloud Native Computing



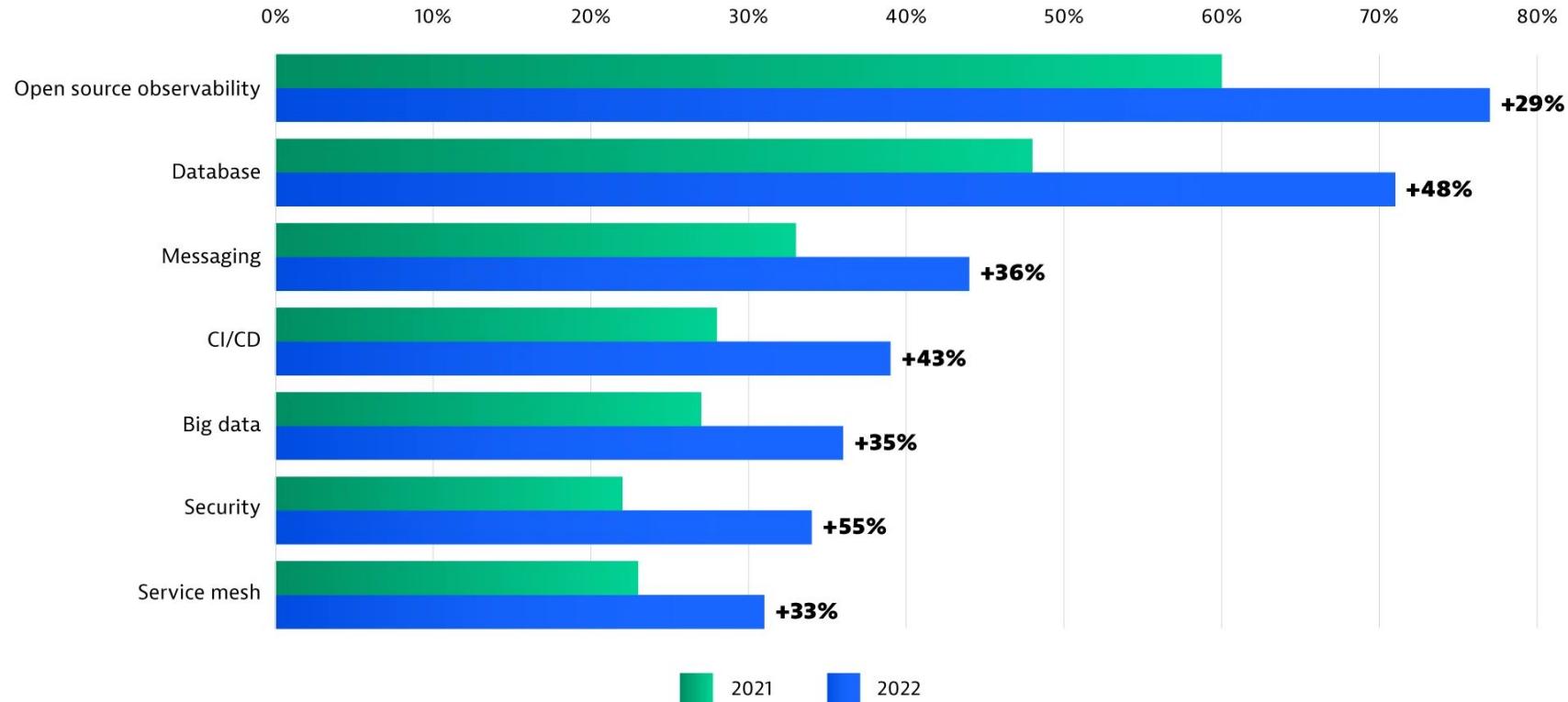
“

*Cloud native computing is an approach in software development that utilizes cloud computing to "build and run scalable applications in modern, dynamic environments such as public, private, and hybrid clouds". These technologies such as containers, microservices, serverless functions, cloud native processors and immutable infrastructure, deployed via declarative code are common elements of this architectural style. Cloud native technologies focus on minimizing users' operational burden.*

”

## Top Kubernetes workload categories

Percentage of organizations + YoY growth



# Kubernetes: The Operating System for the Cloud



“

*At Dynatrace, we use Kubernetes for any new software project, from build pipelines to SaaS offerings. We also see the same trend with our customers. **Kubernetes effectively has emerged as the operating system for the cloud.***

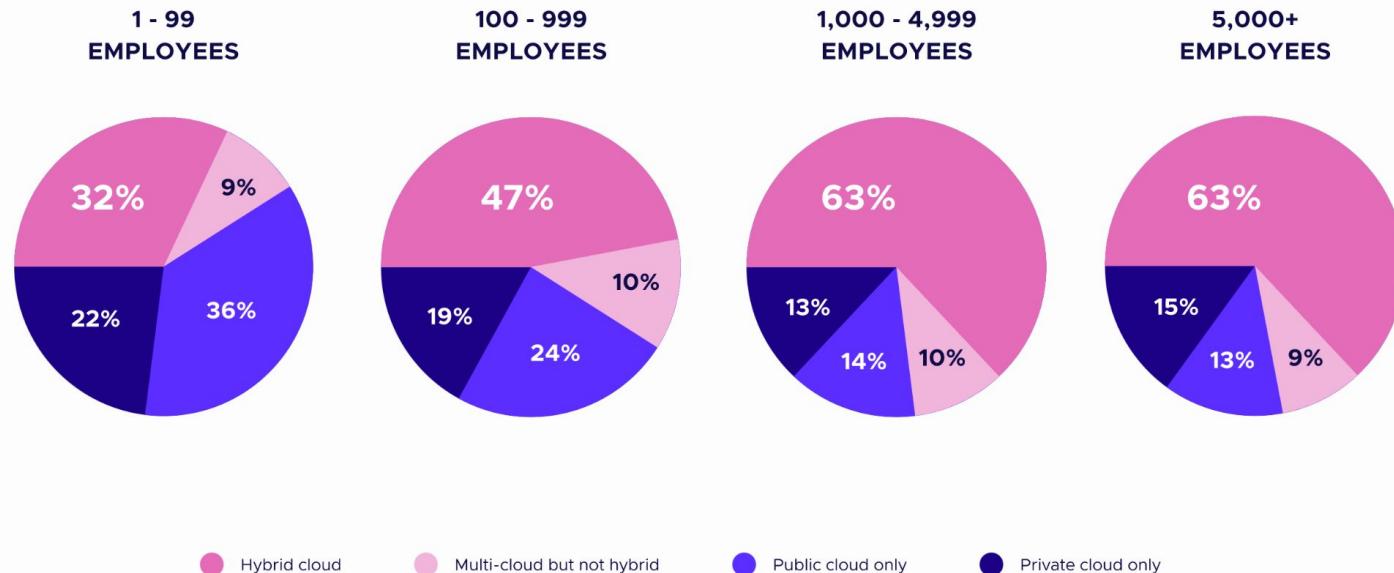
- Anita Schreiner, Dynatrace VP Delivery

”

# Where are the workloads today?



**Which of the following combinations of data center and cloud architectures does your organization use?  
(By organization size)**



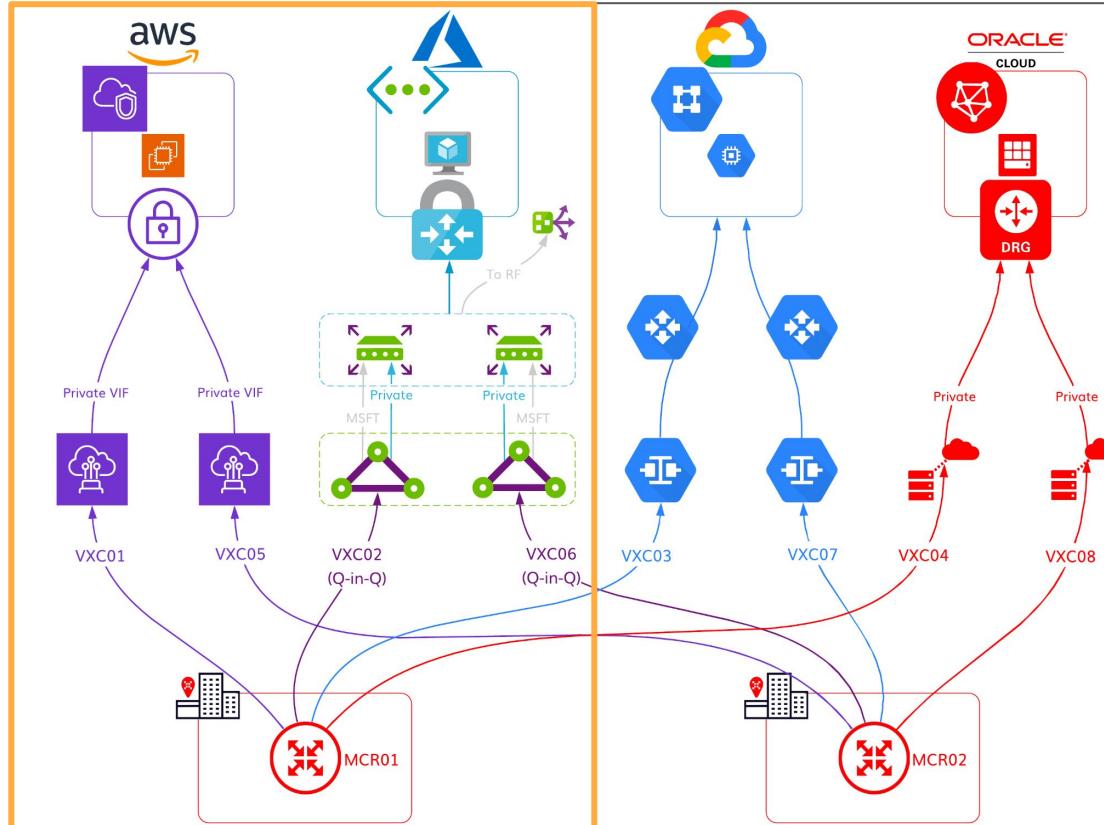
Hybrid cloud

Multi-cloud but not hybrid

Public cloud only

Private cloud only

# Cloud Networking



Dual MCRs as hubs that connect CSPs in an HA configuration without requiring on-premise infrastructure.

Megaport Lab Studio

servicedeployed.io/dashboard

ONE DEMO

Search...

Mike Vitale COMPANY ADMIN

Dashboard

Connect Anything, Control Everything.

Ports 20 MCRs 10 MVEs 18 Clusters 2 Apps 10

Global Resource Map

A visualization of your global resources.

Compute Networking

aws

Google

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## Dashboard

## NETWORKING

## Services

## Marketplace

## COMPUTE

## Clusters

## Applications

## Repositories

## TOOLS

## Discovery

## CSP Looking Glass

## MCR Looking Glass

## MegaIX Looking Glass

## IX Telemetry

## TENANT

## Settings

## Notifications

## Billing Markets

## Support



## Megaport Lab

160208ae-01e4-4cb9-8d57-03a197bd47a8

## General

## Cloud Credentials

## Container Credentials

## SSH Credentials

## Users

## Theming

## Cloud Credentials

You will not be able to view your credentials after you submit.

Add Credential

CLOUD	STATUS	DESCRIPTION	MORE INFORMATION
Amazon Web Services	ADDED	mp1_thirdparty_full	
Google Cloud	ADDED	ie_google	
Microsoft Azure	ADDED	mp1_thirdparty_full	

Page Updated: 10:55:59 EDT - Refresh





# A ONE DEMO

[Create](#)

## Services

Create services on-demand to gain access to our global ecosystem of over 360 partners.

[Reset Filters](#) [Download Inventory CSV](#)

NAME	LOCATION	SPEED	CREATED	Actions
 <a href="#">megaportone-mcr-uk</a> #74DD2E9C	Digital Realty LHR20 DIGITAL REALTY	1 Gb	Apr 12, 2023 11:23:27 EDT	
 <a href="#">mcr-to-aws</a> #A32C7893				
 <a href="#">mcr-to-azure</a> #AAC1DE17				
 <a href="#">AWS Demo JB (do not delete - demo 20APR)</a> #30B93AB1	NextDC S1 NEXTDC	1 Gb	Apr 17, 2023 17:45:58 EDT	
 <a href="#">inovo-mcr-demo PLEASE DO NOT DELETE</a> #0051B278	CoreSite DE1 CORESITE	1 Gb	Nov 1, 2021 09:46:26 EDT	
 <a href="#">bootcampMCR</a> #E6928149	Interxion FRA6 INTERXION	1 Gb	Apr 18, 2023 10:55:35 EDT	
 <a href="#">tac-test-mcr-coupon-k7769</a> #215139E4	Digital Realty NYC1 DIGITAL REALTY	1 Gb	Apr 26, 2022 16:14:43 EDT	
 <a href="#">Bonnier News MCR</a> #D353FEC0	Equinix FR5 EQUINIX	1 Gb	Apr 13, 2023 08:50:08 EDT	

[Dashboard](#)

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Mike Vitale

COMPANY ADMIN

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VXC	STATUS	PEER IP	PEER ASN
mcr-to-aws	✓	169.254.53.41	64512
mcr-to-azure	✓	169.254.106.98	12076

Routes Table BGP Table

## IP Routes

All of the networks that MCR can reach. MCR consults this table when selecting the best route for forwarding traffic to a destination.

Refresh

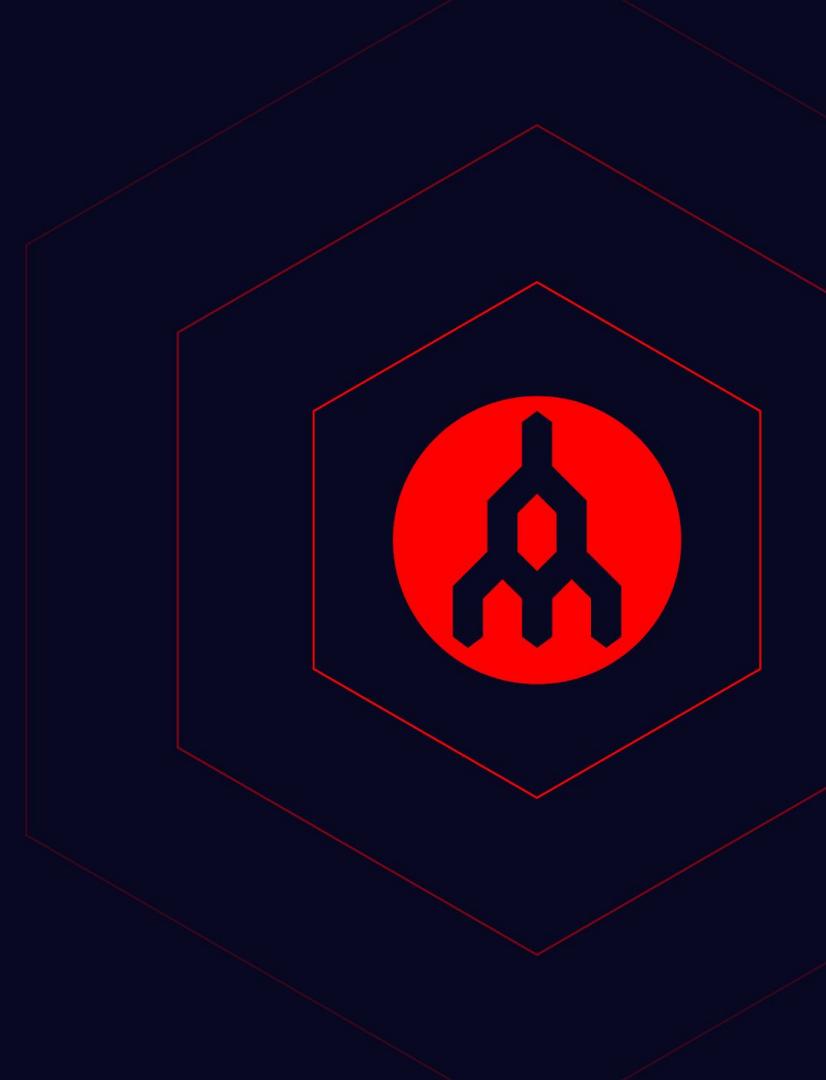
Export Routes

Protocol	Next Hop Vxc	Search...		
PREFIX	METRIC	PROTOCOL	DISTANCE	NEXT HOP
18.224.8.0/12	0	BGP	20	169.254.106.98 MCR-TO-AZURE
169.254.53.40/30	None	CONNECTED	0	0.0.0.0 MCR-TO-AWS
169.254.53.42/32	None	LOCAL	0	0.0.0.0 MCR-TO-AWS
169.254.106.96/30	None	CONNECTED	0	0.0.0.0 MCR-TO-AZURE
169.254.106.97/32	None	LOCAL	0	0.0.0.0 MCR-TO-AZURE
172.31.0.0/16	0	BGP	20	169.254.53.41 MCR-TO-AWS

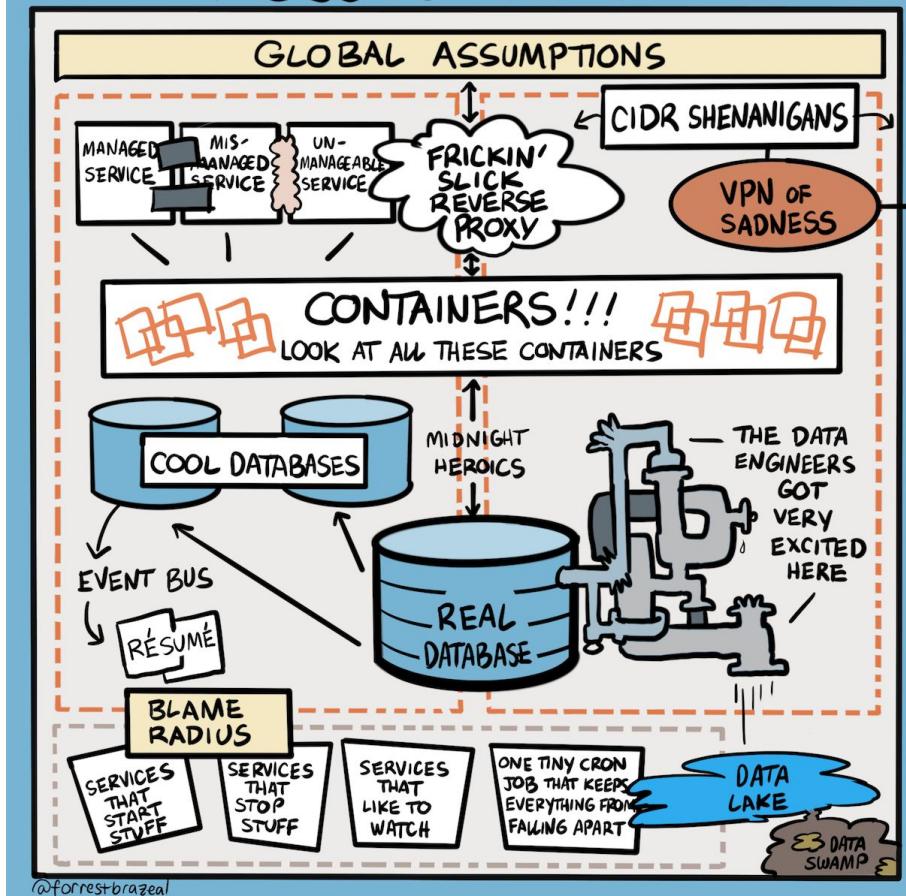




# Enterprise Application Deployment



# “Cloud Native” Architecture

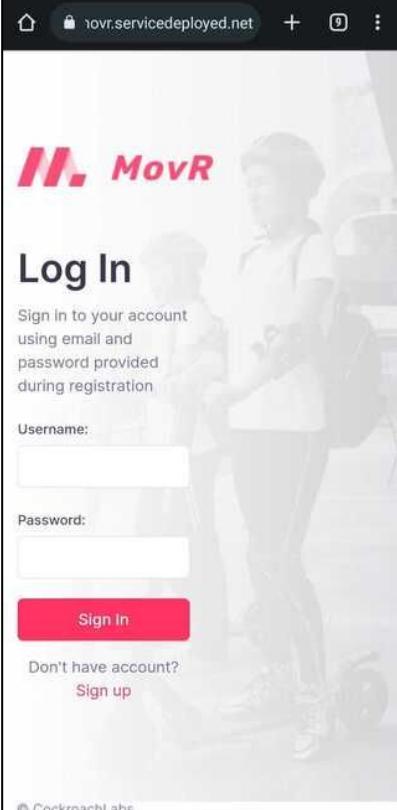


# Tech Stack Review



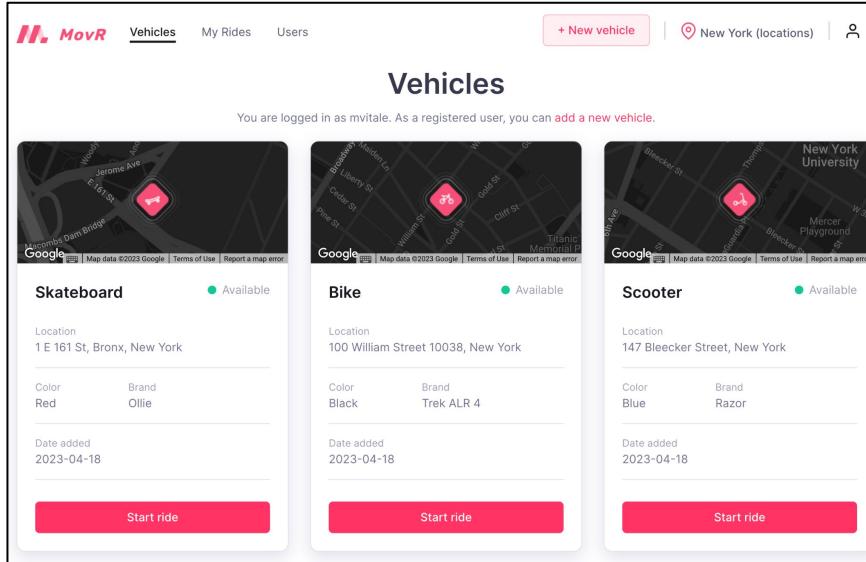
SaaS / NaaS Orchestration	 Megaport ONE	 Megaport Cloud Router			
Cloud Service Providers	 Amazon EKS	 Microsoft Azure			
Cloud Native Infrastructure	 Kubernetes	 Helm Package Manager			
Enterprise Application Example	 Cloudflare	  Cert Manager	 NGINX	 Flask	 CockroachDB

# Our example enterprise app



The image shows the MovR login interface. At the top, there's a logo with two red bars and the word "MovR". Below it, the title "Log In" is displayed. A sub-instruction "Sign in to your account using email and password provided during registration" follows. There are two input fields: "Username:" and "Password:", each with a placeholder icon. A large red "Sign In" button is centered below them. At the bottom, a link "Don't have account? Sign up" is visible.

MovR is a fictional company that offers users a platform for sharing vehicles, like scooters, bicycles, and skateboards, in select cities across the United States and Europe. To serve users in two continents, we need an application architecture that is globally available, resilient to system failures and optimized for latency.

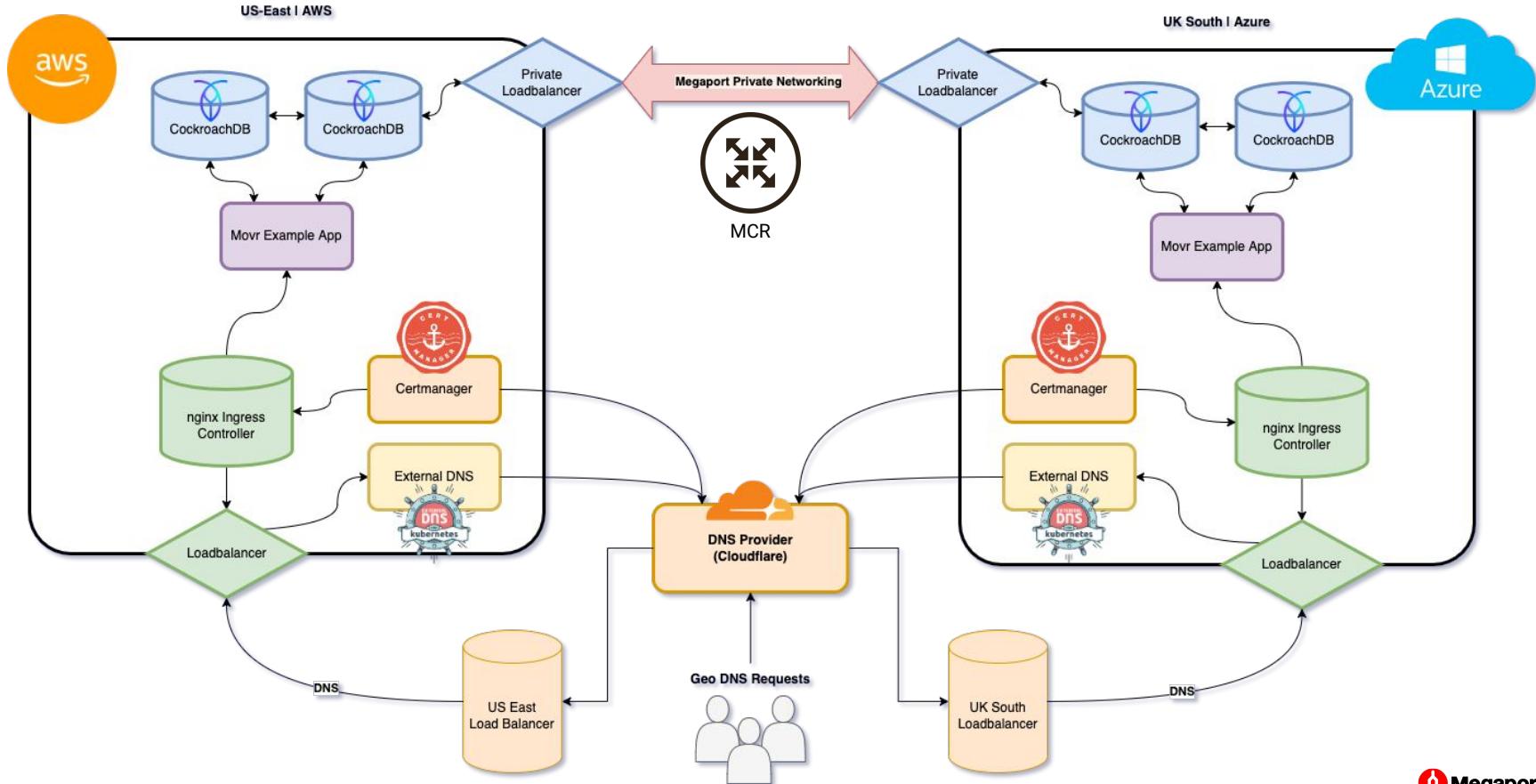


The image shows the MovR vehicle management interface. The top navigation bar includes the MovR logo, tabs for "Vehicles", "My Rides", and "Users", and buttons for "+ New vehicle", "New York (locations)", and a user profile icon. The main section is titled "Vehicles" and contains three cards, each showing a map location and vehicle details:

Type	Location	Status
Skateboard	1 E 161 St, Bronx, New York	Available
Bike	100 William Street 10038, New York	Available
Scooter	147 Bleecker Street, New York	Available

Each card includes a "Start ride" button at the bottom.

# Multicloud Architecture



# Live Demonstration

Deploying multicloud applications

# Live Demonstration

Creating a reusable application template



Please ask your questions  
in the Q&A panel.



# LIVE Webinar Series

Thank You For Joining Us!



Have more questions or would like us to contact you? Complete this form: [https://mp1.tech/ml\\_contact\\_us](https://mp1.tech/ml_contact_us)



Megaport Product icons



*MCR*

*VXC*

*Port*

*IX*

*MVE*

*Marketplace*



Partner Logos



Google Cloud



Alibaba Cloud



Supporting Icons

