



**LIVE**

# Webinar Series

19 April 2023

How to Deploy Multicloud Applications With Megaport ONE





# LIVE Webinar Series



Marcelo McAndrew,  
Senior Product Designer



Michael Vitale,  
VP, Advanced Software



Nathan Grey,  
Senior DevOps Engineer

## How To Deploy Multicloud Applications Using Megaport ONE

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

# Our Speakers



**Michael Vitale**  
VP, Advanced Software



**Nathan Grey**  
Senior DevOps Engineer



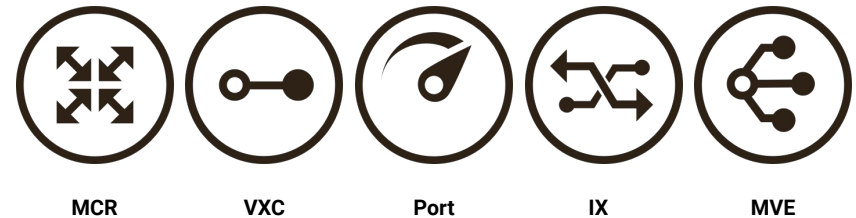
**Marcelo McAndrew**  
Senior Product Designer

# About Megaport



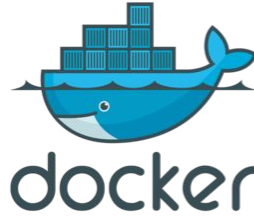
## The leader in Network-as-a-Service (NaaS)

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.



# Megaport ONE

Cloud Native Computing



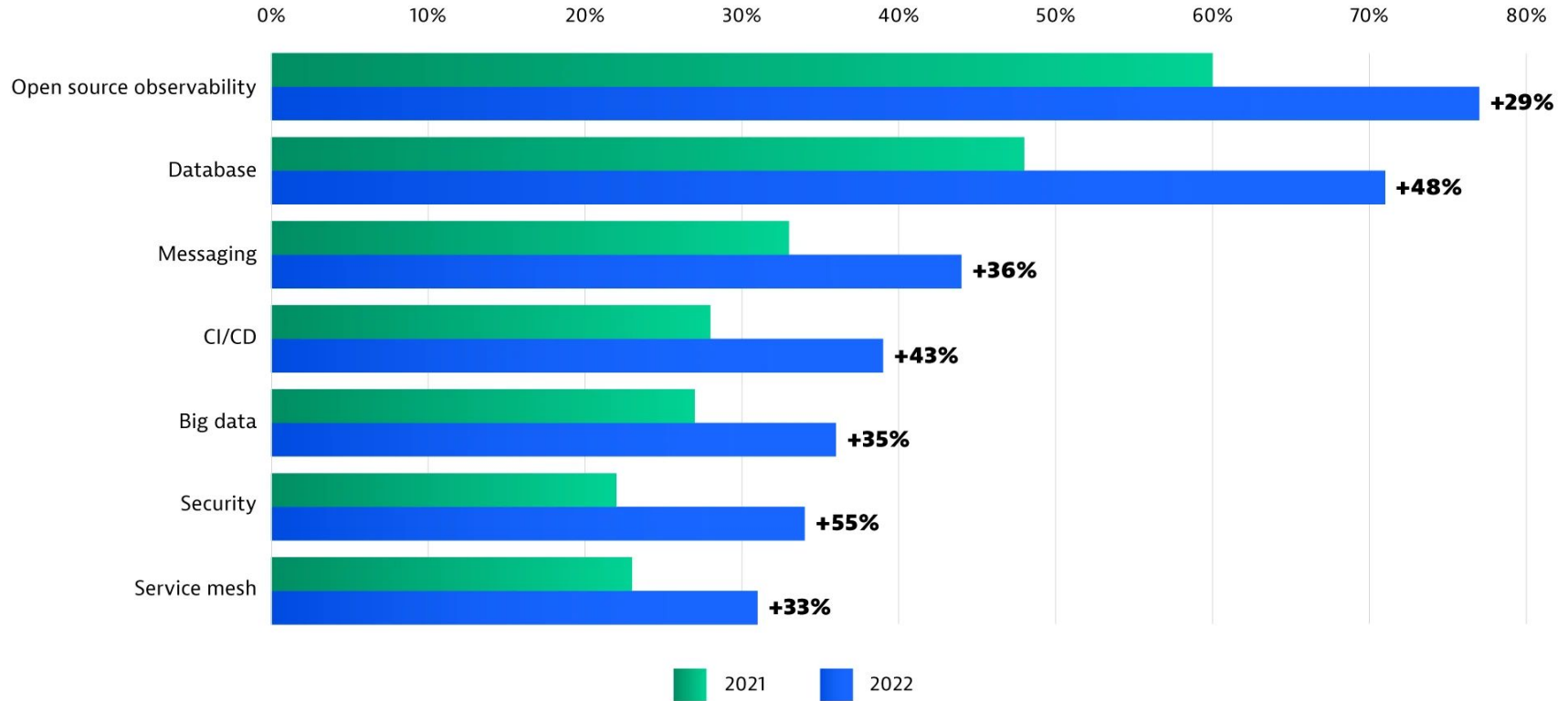
“

*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.***

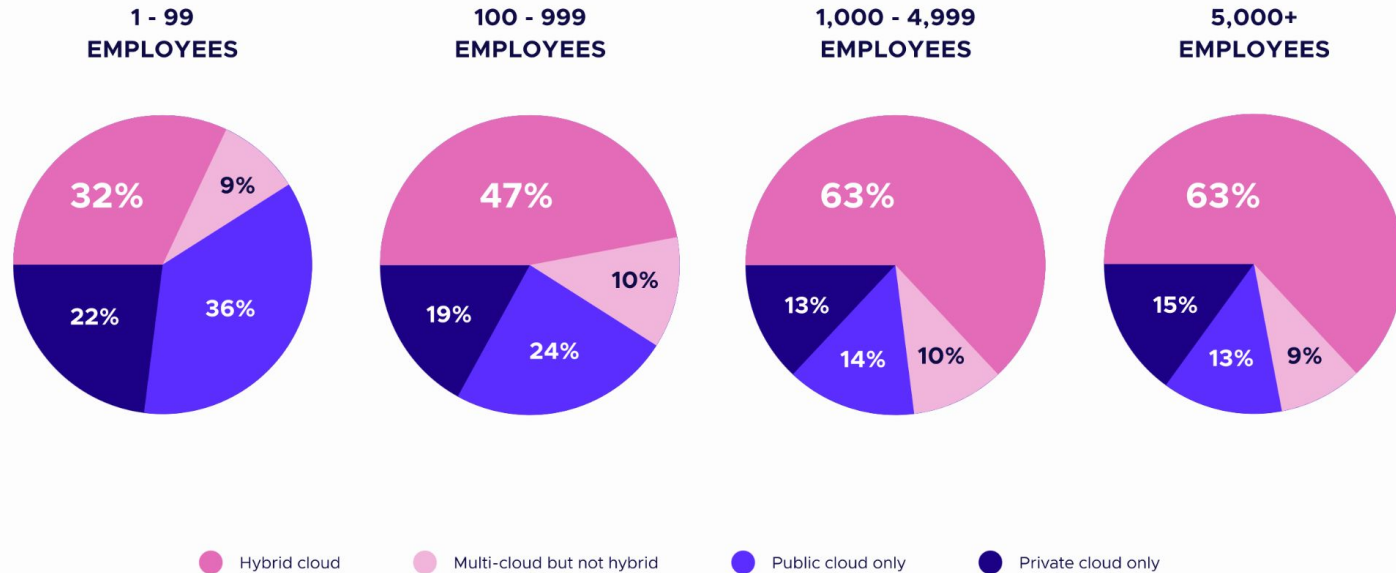
*- Anita Schreiner, Dynatrace VP Delivery*

”

# Where are the workloads today?

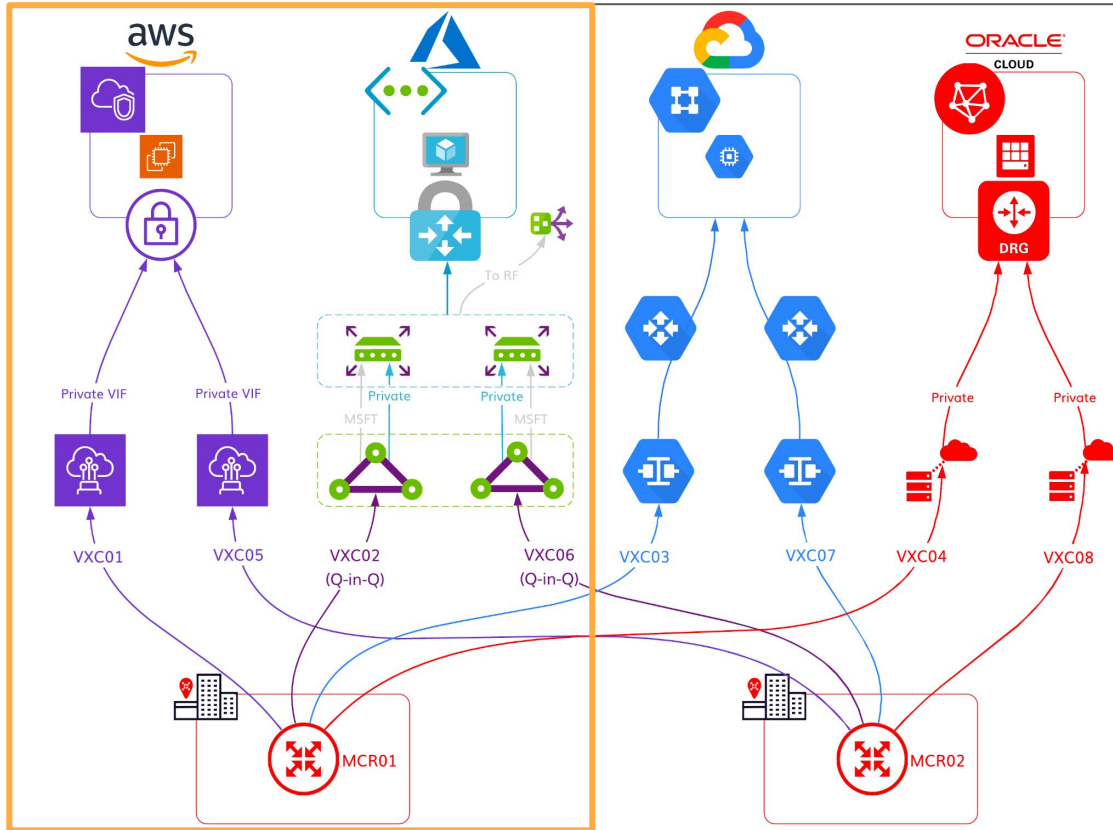


Which of the following combinations of data center and cloud architectures does your organization use?  
(By organization size)





# Cloud Networking



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

- 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
- Collapse Sidebar

## Dashboard

Connect Anything, Control Everything.

Ports 20	MCRs 10	MVEs 18	Clusters 2	Apps 10
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### Global Resource Map

A visualization of your global resources.

Compute  Networking

Keyboard shortcuts | Map data ©2023 | Terms of Use

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## 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	ⓘ ⚙️

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## Services

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

Create

Reset Filters | Download Inventory CSV

	Any Speed	All Types	All Statuses	All Providers	Search
	▼	▼	▼	▼	mcr
	NAME	LOCATION	SPEED	CREATED	
▼	 <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="#">innovo-mcr-demo PLEASE_DO_NOT_DELETE</a>  #00518278	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="#">Bonnie News MCR</a> #D353FEC0	Equinix FR5 EQUINIX	1 Gb	Apr 13, 2023 08:50:08 EDT	





Search...

- Dashboard
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  - MegaIX Looking Glass
  - IX Telemetry
- TENANT
  - Settings
  - Notifications
  - Billing Markets
  - Support

VXC	STATUS	PEER IP	PEER ASN
<a href="#">mcr-to-aws</a>	✓	169.254.53.41	64512
<a href="#">mcr-to-azure</a>	✓	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.

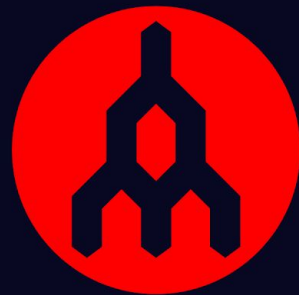
Refresh Export Routes

PREFIX	METRIC	PROTOCOL	DISTANCE	NEXT HOP
<a href="#">10.224.0.0/12</a>	0	BGP	20	<a href="#">169.254.106.98</a> MCR-TO-AZURE
<a href="#">169.254.53.40/30</a>	None	CONNECTED	0	<a href="#">0.0.0.0</a> MCR-TO-AWS
<a href="#">169.254.53.42/32</a>	None	LOCAL	0	<a href="#">0.0.0.0</a> MCR-TO-AWS
<a href="#">169.254.106.96/30</a>	None	CONNECTED	0	<a href="#">0.0.0.0</a> MCR-TO-AZURE
<a href="#">169.254.106.97/32</a>	None	LOCAL	0	<a href="#">0.0.0.0</a> MCR-TO-AZURE
<a href="#">172.31.0.0/16</a>	0	BGP	20	<a href="#">169.254.53.41</a> MCR-TO-AWS

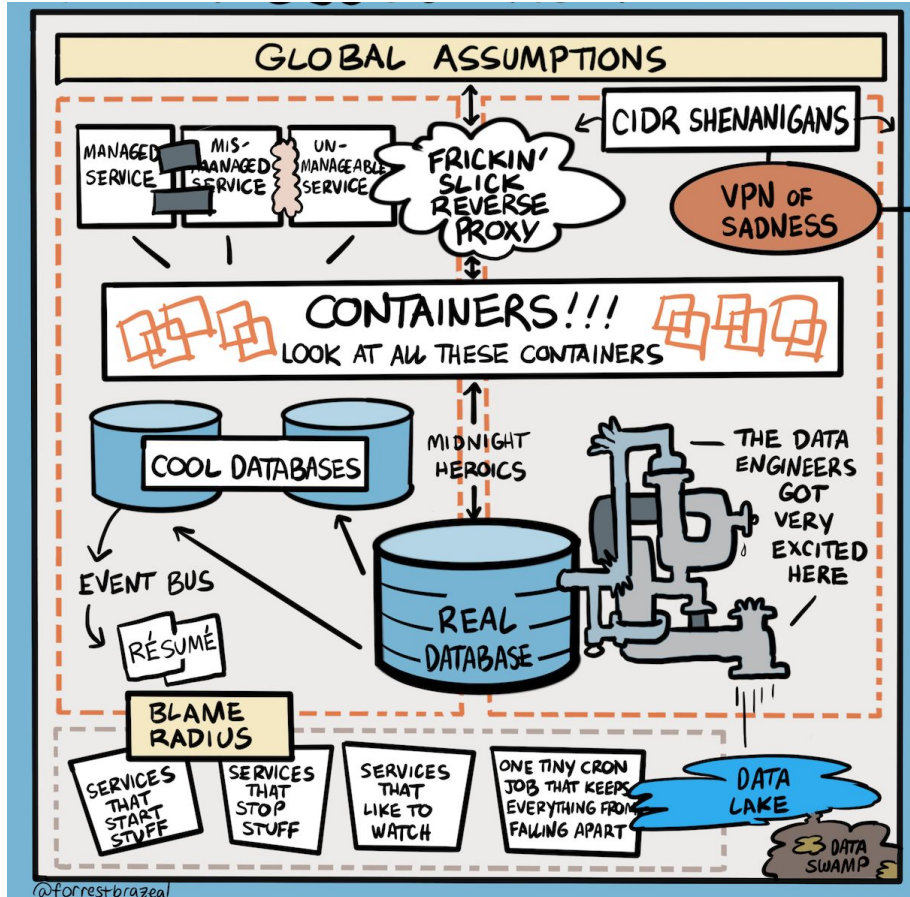




# Enterprise Application Deployment














# “Cloud Native” Architecture



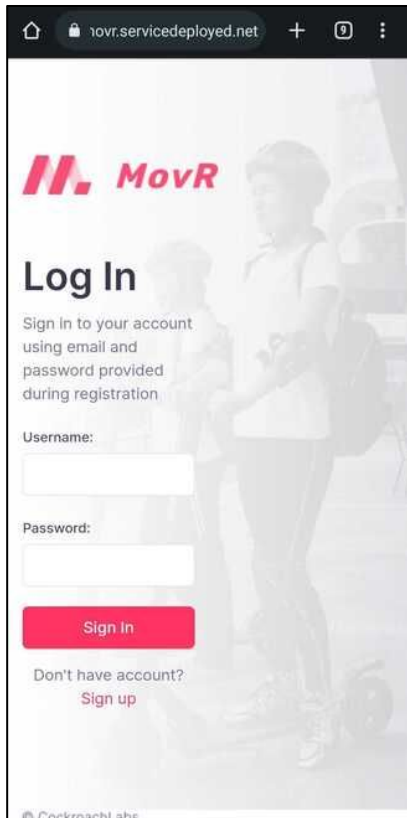
# Tech Stack Review



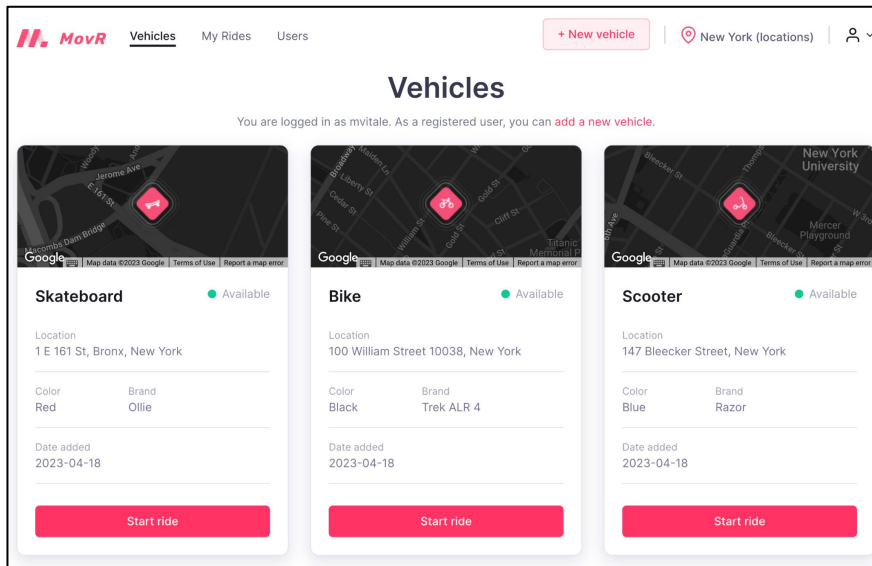
<p>SaaS / NaaS Orchestration</p>	 <p>Megaport ONE</p>	 <p>Megaport Cloud Router</p>			
<p>Cloud Service Providers</p>	 <p>Amazon EKS</p>	 <p>Microsoft Azure</p>			
<p>Cloud Native Infrastructure</p>	 <p>Kubernetes</p>	 <p>HELM Helm Package Manager</p>			
<p>Enterprise Application Example</p>	 <p>CLOUDFLARE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



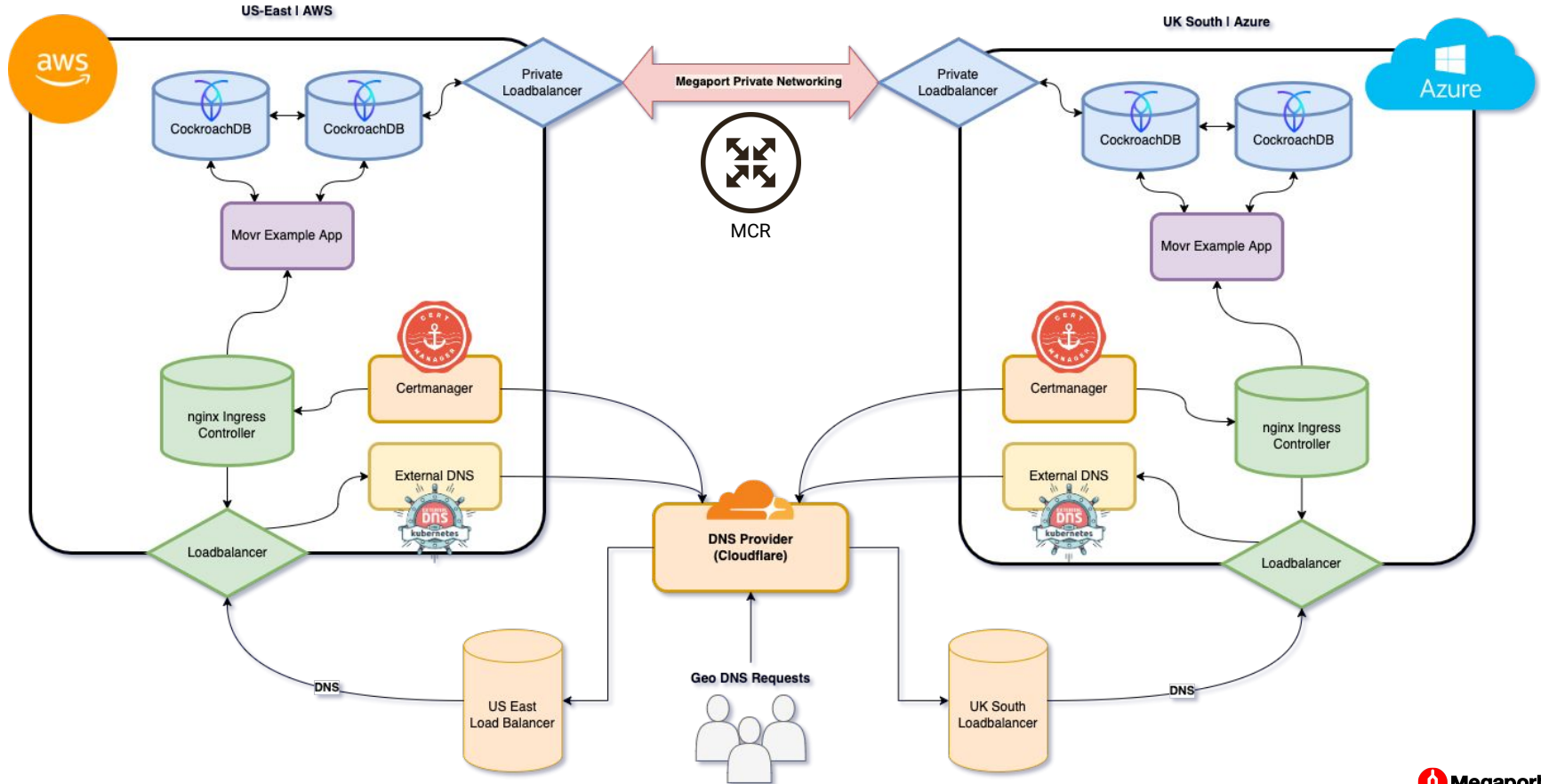
# Our example enterprise app



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, the we need an application architecture that is globally available, resilient to system failures and optimized for latency.



# 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**

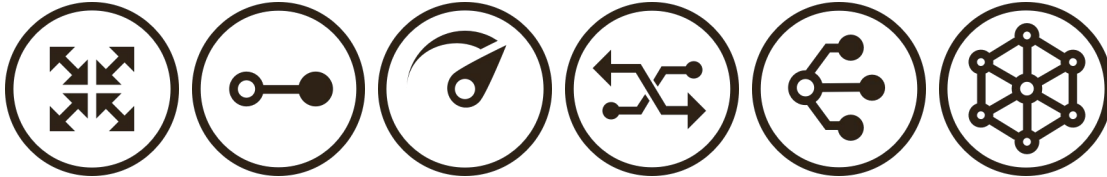
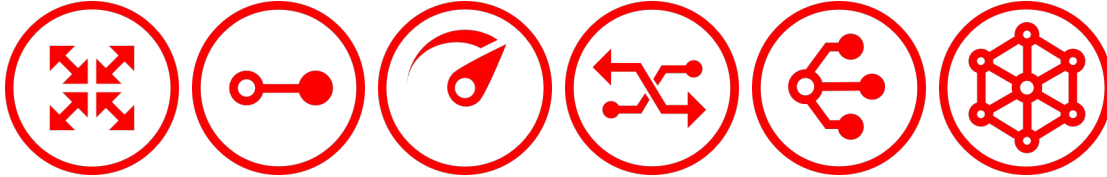


**Thank You For Joining Us!**

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

Supporting Icons



Partner Logos



Alibaba Cloud

ORACLE  
Cloud



Google Cloud



Microsoft Azure



aws

