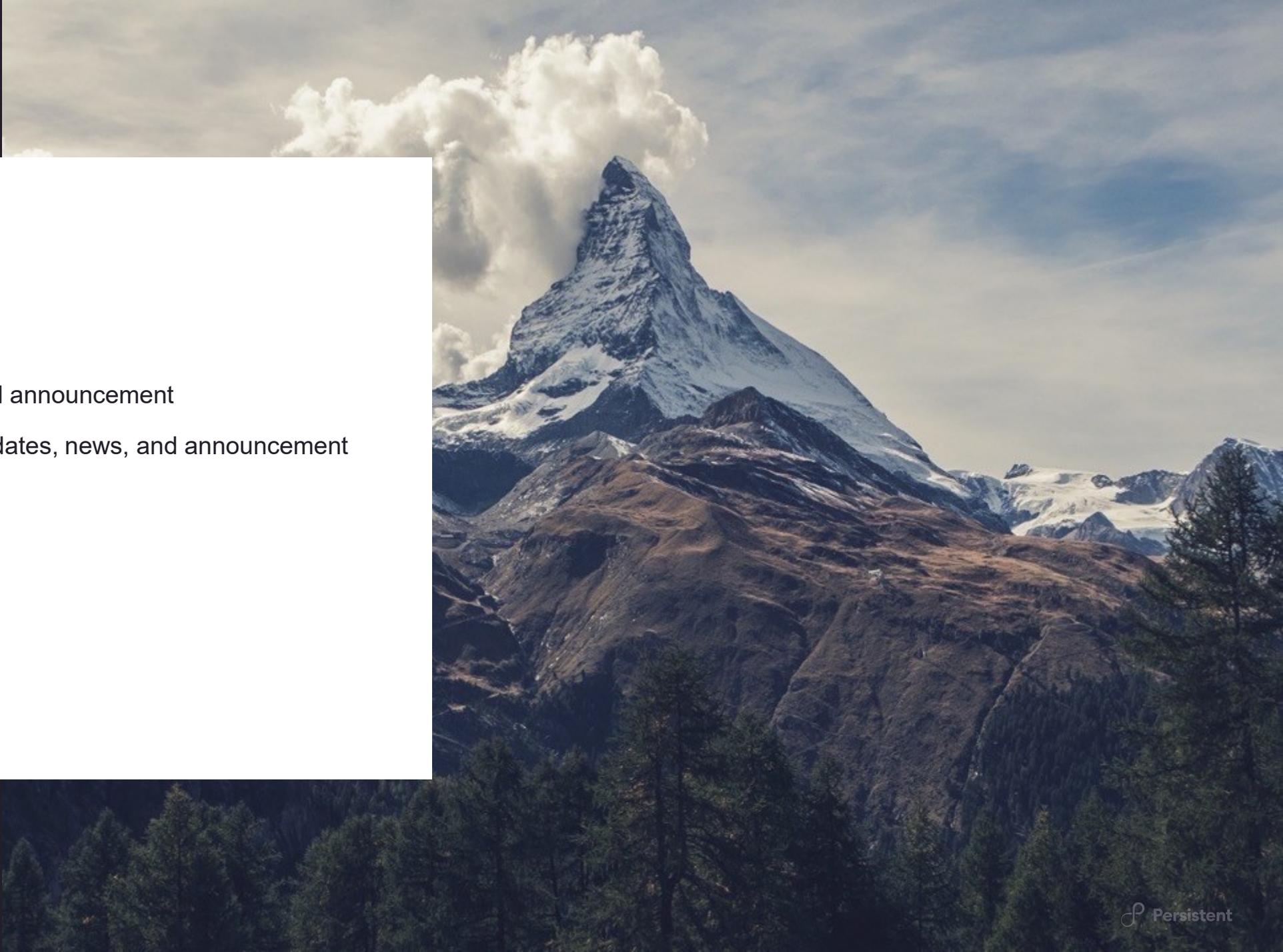**Persistent**

WELCOME TO

USER GROUP MEETING

Cloud Orchestration & Management - Rovius

9th March 2022

Agenda

1. Open Discussion Forum

2. Product - updates, news, and announcement

3. User Group Community - updates, news, and announcement

4. Q&A/Feedback

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Launching

We Connect User Group

100k+	**2013**	**50+**
Users	Since	Countries

- In-Person User Group Summits
- Product User Group Meeting every month
- Common User Group Meeting bi-yearly
- Webinars, Live Events, Panel discussions

Product UGM

Digital Device Management

Radia Endpoint Management OTA, IoT Security

Cloud Orchestration Management

Rovius, MultiCloud, Disaster Recovery, Migration Cyber Resilience

API Monetization Management

Aepona Marketplace

Be the **Champion** *of* Community

Bolstering Our Community
Boosting engagement, visibility and a sense of belonging

Experience   **Contribute**   **Grow**

INFLUENCE & EXPRESS

Community DNA

- Connect
- Learn
- Share
- Collaborate

Perks

News	Innovate	Build
Market	Showcase	Network
Releases	New Ideas	Advocate
Early Access	Best Practices	Feedback
STAY UP-TO-DATE	**PARTICIPATE**	**OPEN FORUM**

- APAC
- EMEA
- AM
- JK

Rovius Overview

Multi Tenant Managed Cloud Infrastructure

Supports large Scale infrastructure setup in single / multiple zones and regions

Simple, Turnkey Cloud Orchestration with support for popular Hypervisor types

Supports Rapid Provisioning / Deprovisioning, Service automation at all levels

2K+
Servers in a Single deployment

>10
Years of IaaS Orchestration

100s
Of deployments on a single day

What we do
Capabilities

Account & ITaaS Management

Pricing & Billing

CRM / Helpdesk Integration

Deployment / Monitoring Dashboard

Service Management (ITaaS)

IaaS - RCP, CloudStack, OpenStack

Adapted across Industry Verticals

Education	Datacenter	Hosting	CSP

Business Partner Ecosystem

Outcomes

Manage Deployments

Plan Cost & Budget

Monitor Cloud Infrastructure

Automate Deployments

Streamline Workflows & Approvals

Unified Management Console for Multi Cloud

Kubernetes Cluster support

Easy to scale architecture

Rapid Provisioning / Deprovisioning capabilities

Multi Tenant Support and Account Management

Platform support for variety of OS and Hypervisor types

Service Automation & Orchestration

Lower TCO Compared with other cloud platforms

Disaster Recovery

Infrastructure Migration / Resource Monitoring

Cost & Budgeting

Accounts & Project Management

Service Management (IT as a Service)

Cloud Portal Business Manager w/ e2e Business Coverage

Containers

Latest Offerings

Key Offerings

\ Account & ITaaS Management

\ Pricing & Billing

\ Integration with CRM / Ticketing systems

\ Dashboard for Monitoring Resources / Deployments

\ IaaS on Rovius CP, CloudStack, OpenStack

Core Differentiators

\ Easy to scale architecture

\ Rapid Provisioning / Deprovisioning capabilities

\ Platform support for variety of OS and Hypervisor types

\ CPBM covers e2e business scenarios

\ Lower TCO Compared with other cloud platforms

New Offerings

\ Unified Console for private / public clouds

\ Multi Cloud Support and Account Management

\ Quota and Policy Management

\ Cloud Cost & Budgeting

\ Catalog Management & Infrastructure Migration

\ Enhanced Disaster Recovery & Migration

\ Kubernetes Cluster Support

\ Monitoring & Approvals

\ Service Automation & Orchestration

\ Mobile Ops Support

Rovius Cloud Platform

Need for Enterprise Cloud Operations — CloudOps

Public Cloud

Azure | aws
Red Hat | Google Cloud

Private Cloud

KVM | Xen Project
Microsoft Hyper-v | vmware

Top Reasons Why Enterprises Need CloudOps

Centralized Management	Rapid Orchestration	Resource Optimization	Monitoring And Control
Integrated Security	Efficient DR And Migration	Integrated Cost Management	Enterprise Apps Integration

Top Challenges Faced Today

Resources	Complexity	Time & Cost	Subscription

CloudOps	Abstraction	Automation	Viability	Control	Security

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Multi-cloud Management Tools use cases

Cloud provisioning and orchestration.

Using the tool primarily to automate cloud resource provisioning/deprovisioning/modification.

Cloud service brokering.

Using the tool primarily to manage the interaction between cloud consumers and providers.

Cloud governance.

Using the tool primarily to enforce policies and controls to ensure compliance with best practices of cloud activity.

Cloud resource management.

Using the tool primarily to manage the overall cloud estate (for example, cost tracking and cloud resource optimization).

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Multi Cloud Deployment Trends

\ Although private and hybrid cloud deployments are preferred from the data security standpoint, Multicloud has emerged as the favorite for a significant number customers falling in the band of SMEs.

\ *"Having multiple cloud environments ensures that you always have compute resources and data storage available so you can avoid downtime*. **Compliance**: Many multi-cloud environments can help enterprises achieve their goals for governance, risk management and compliance regulations."
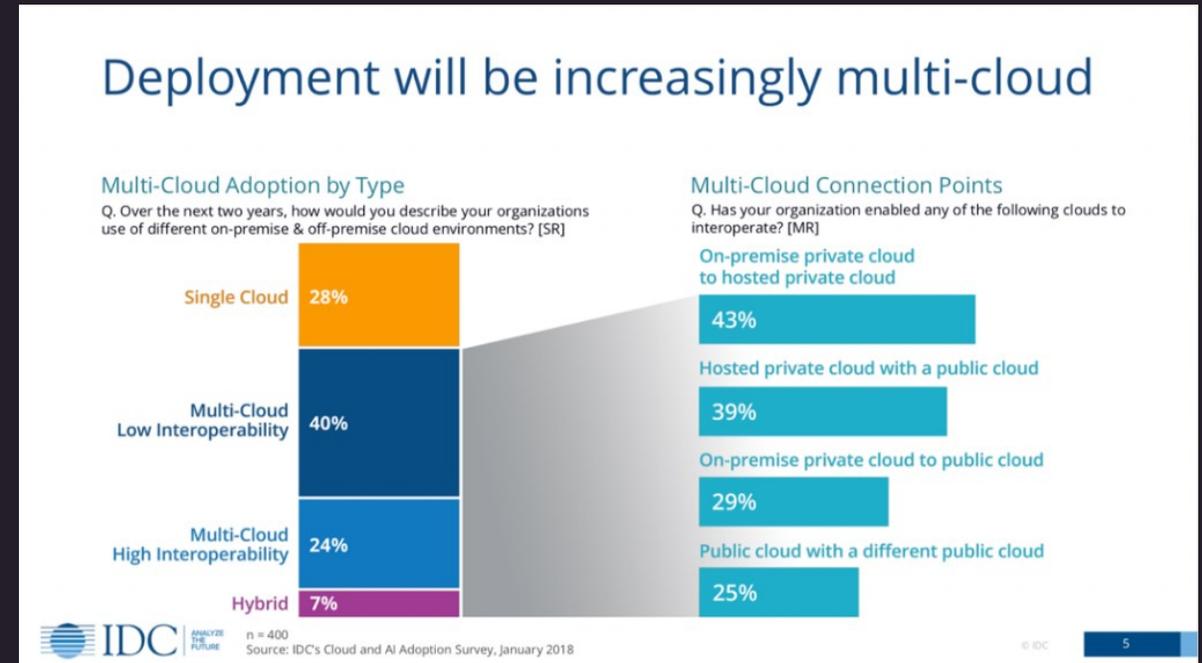
Need for Multi Cloud

Platform Capabilities
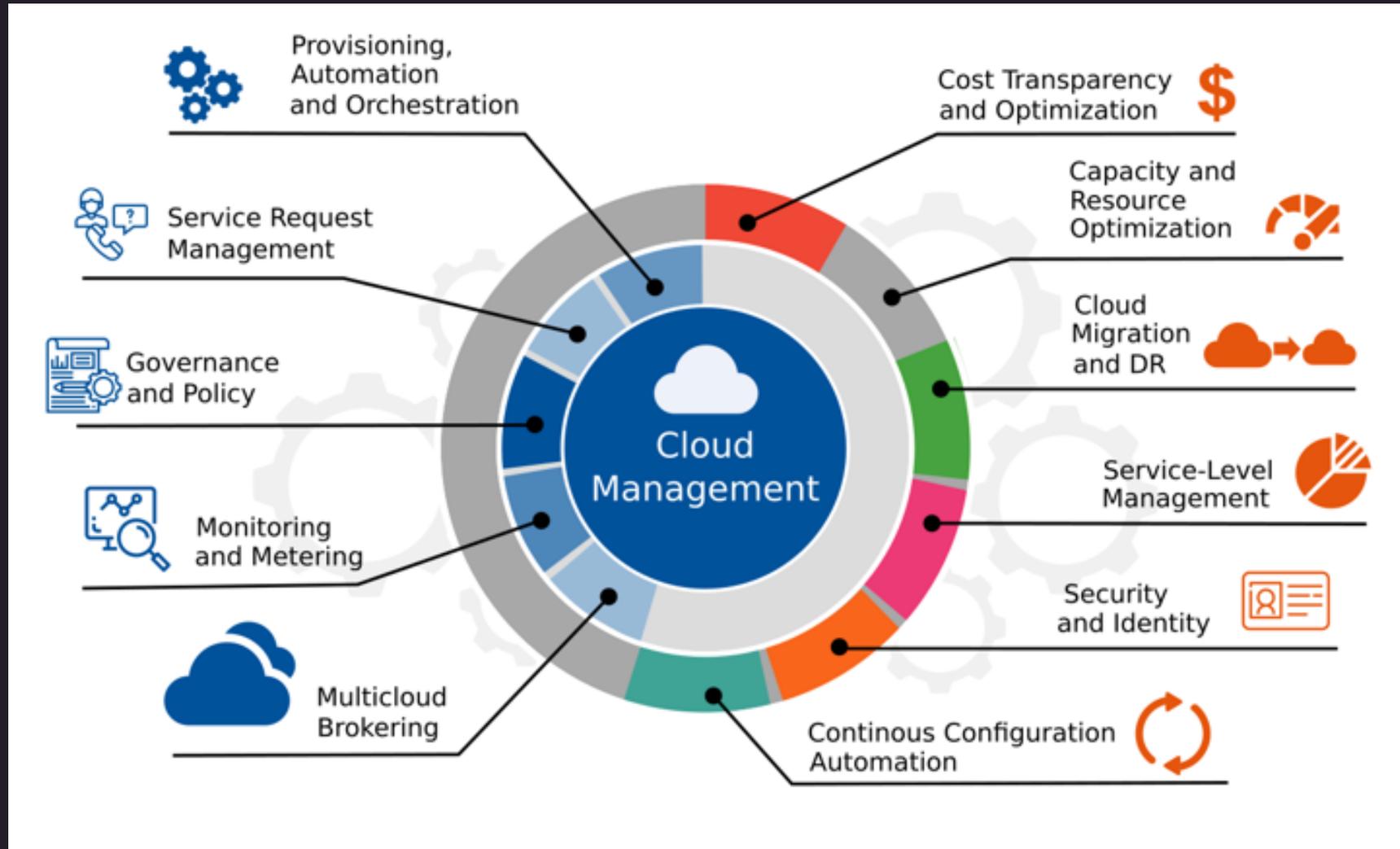
Rovius Cloud Orchestration Platform

Provisioning & Orchestration

Standardize operations across multiple clouds

\ Auto-deploy applications using standardized blueprints.

\ Cost estimation and Optimization recommendation for workloads

\ Monitoring & Reporting on resources at Tenant, Department, Data Center and user levels across multiple clouds

\ Service catalog which applies across multiple clouds

\ Updates and Patching

\ APIs for 3rd party integration

Account Management

Tenants and users across a multi-cloud infrastructure

\ Fine grained RBAC at Organizational, Departmental, User, Region, Zone and Data Center level.

\ Manage multiple tenants from a single dashboard as an MSP

\ Consolidated billing and breakup by tenant, Account, Department, Cloud infra and Data center

\ Secrets Vault Service

Security

Automated Alerts, Security Policies and Validation

\ Enforce strong access control policies based on regions, depts.

\ Automated implementation of standard compliance policy definitions

\ Regulatory compliance validation of deployments

\ Dashboard to notify compliant and non-compliant resources.

\ Generate Compliance Reports for tenants, accounts and departments.

\ HIPAA, PCI, Enterprise standards

Costing and Budgeting

Visibility and control over all tenants and users

\ Single pane of glass to monitor and view consumption, cost and performance for each tenant, departments, data center and users.

\ Report under and over utilized resources and provide advisory

\ Cost analysis and cost advisory

\ Budgeting alerts and trigger workflows based on thresholds

\ Auto scale

Disaster Recovery

Protect workloads in a multi-cloud environment

\ Protect applications, systems, databases, and data on any public or private cloud infrastructure.

\ Cold, Warm and Hot DR Options based on RTO and Cost preference.

\ Complete control of your data with CSEK encryption keys.

\ Ransomware detection and remediation

Migration

Migrate workloads within a multi-cloud environment

\ Lift & Shift from physical servers, VMs or other clouds to any infrastructure

\ Migration based on cost comparison between infrastructures.

\ Modernize applications to use containers and micro services.

\ Secure and scalable with minimal impact on production.

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Rovius with extended support for Multi Cloud
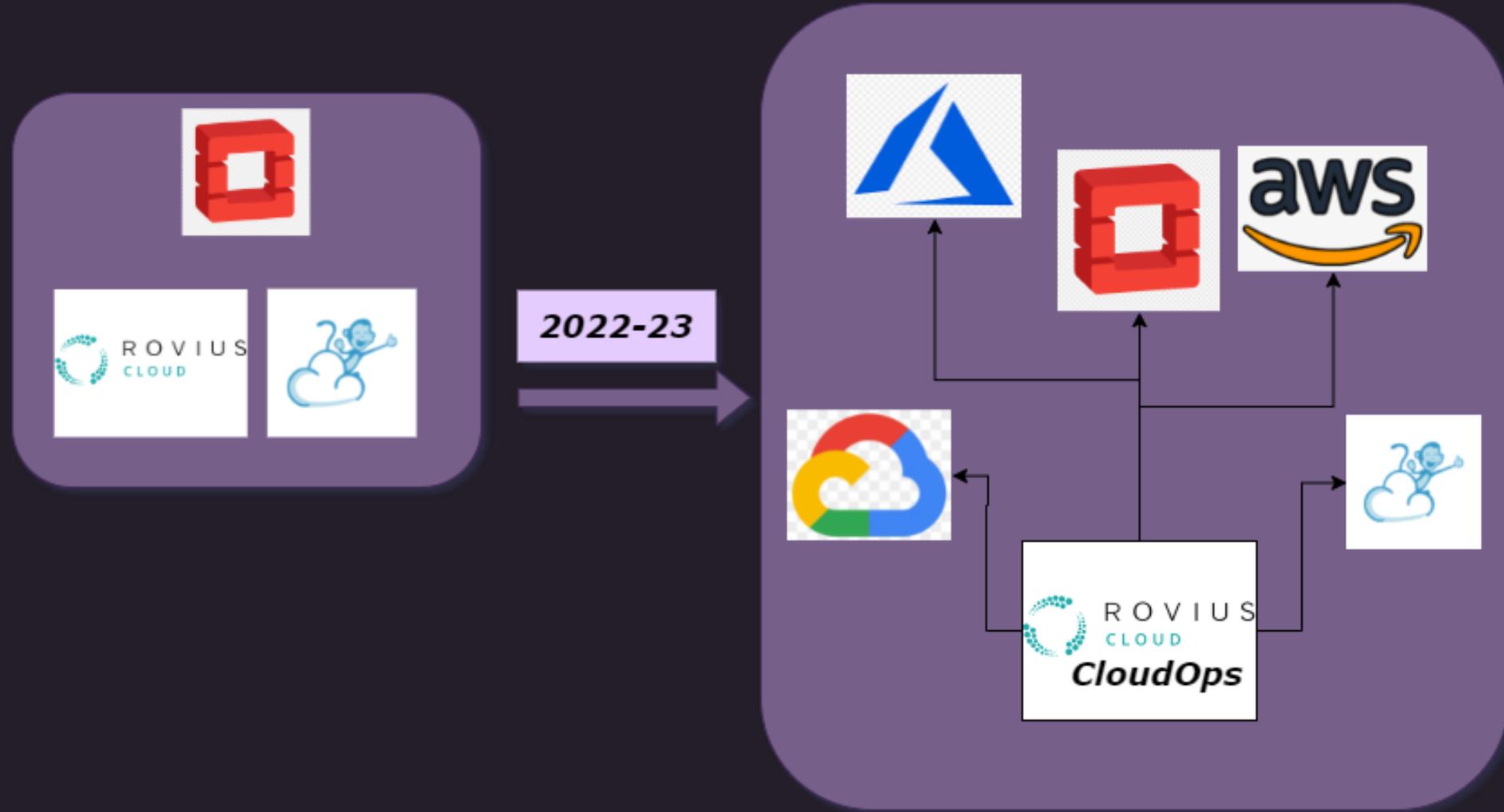
Rovius Features & Roadmap
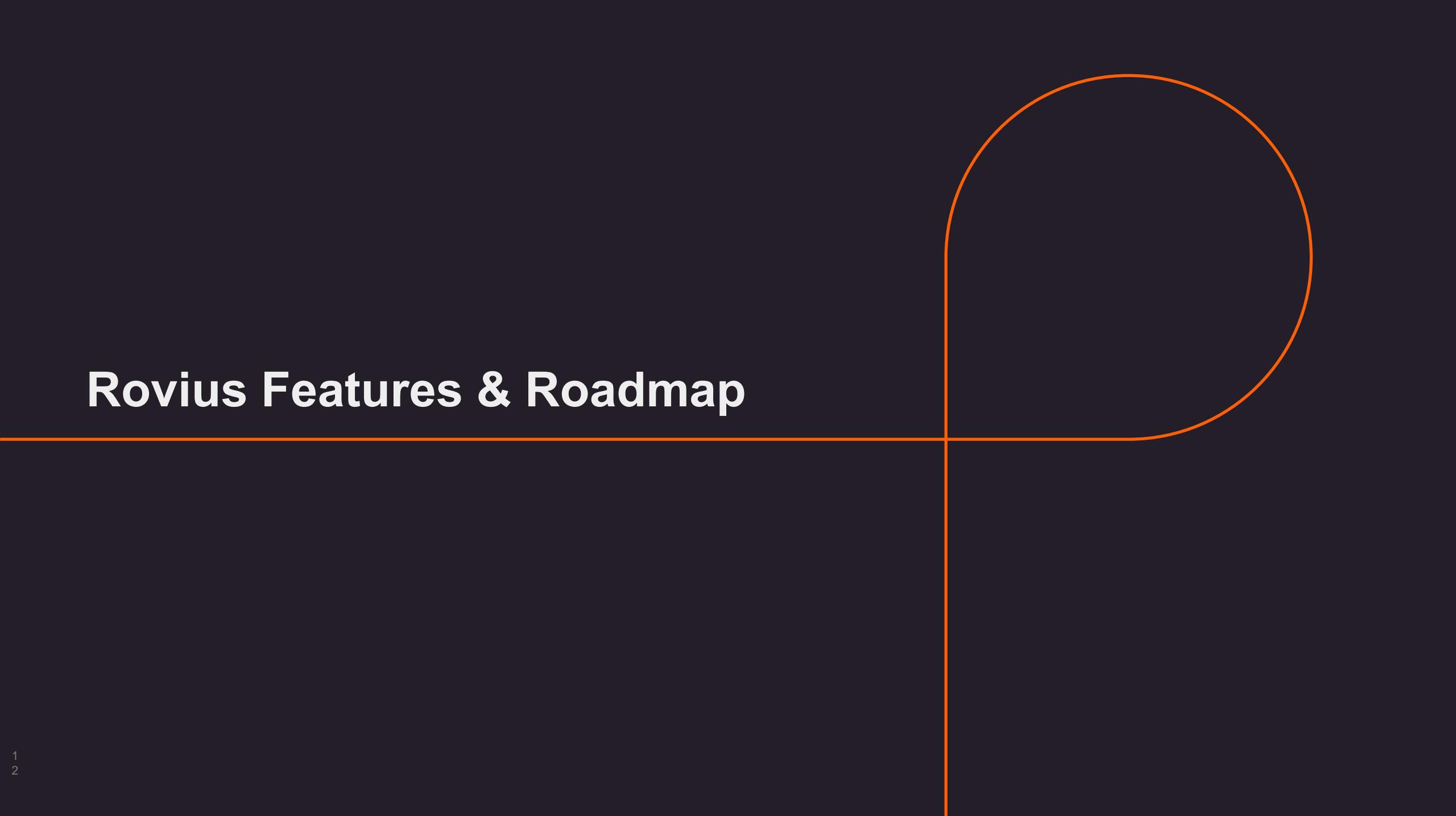
CloudOps - Roadmap

In Place

\ Provisioning based on Terraform template blueprints

\ Supports Rovius CP, AWS, Azure, GCP

\ Secrets Management - HashiCorp Vault

\ IAM

\ Org., Dept. & Projects

\ Import existing cloud infrastructure

By June 2022

\ Quota and Policy Management

\ Cloud Cost Management

\ Catalog Management

\ Disaster Recovery & Migration

\ Cloud Service Management

\ Monitoring

\ Approvals

\ Alerts and Notifications

\ Self Service

\ Rapid Provisioning / Deprovisioning, highly scalable

\ Custom template repository support for blueprints used to do provisioning in public cloud

\ Comprehensive, large library of canned blueprints shipped with the product

\ Salesforce and similar built-in Connectors available

\ Easy integration with ticketing systems, helps service automation

...Next

\ *Kubernetes* workload orchestration

\ Mobile device support for Ops

\ Platform/Application
  - CI/CD Pipeline
  - iPaaS

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CLOUDOPS FOR KUBERNETES

CloudOps multi cloud solution citing to provide extensive support for Kubernetes Cluster Management.

Challenges

\ Need to manage the containers deployed on a Kubernetes cluster from a console.

\ Kubernetes cluster management should be cloud agnostic (should be the same for EKS and AKS).

\ Should be able to monitor the lifecycle and performance of the applications deployed in containers on a given K8S cluster environment, in a cloud-neutral fashion.

Solutions

\ Rovius CloudOps comes with a feature to manage K8S cluster in a cloud-agnostic fashion.

\ CloudOps Features that address this case

Extending support for K8s from CloudOps (MultiCloud) platform to do scale up / down on a given Kubernetes environment

Monitors the containers deployed on a given Kubernetes environment from the performance standpoint, collect and present stats back to the CloudOps Portal.

CloudOps Supports Service Mesh and Observability from its unified management console

Outcomes

Effective Management

Using this feature, apps and services deployed on containers over Kubernetes cluster are managed effectively from a single unified console.

Performance Monitoring

Container performance statistics are collected and reported in a periodical fashion for a given container thereby giving room for effective monitoring of performance.

Scale up / down & Service Mesh

Unified management console supports scaling up and down of container instances as well as managing a service mesh

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Rovius CloudPlatform - Roadmap

4.11.0.12

Tentative release – 2022.03

\ OVA file management optimization (on Secondary storage)

\ VR - Wildcard SSL support for userdata and metadata

\ Mac - BigSur guestOS support, USB 3. 0 support

\ Restrict access to ports 80/443/53 in a shared network

\ MVC - Cross vCenter migration of stopped VMs with attached disks

\ Project Dashboard - Capacity and resource utilization

\ Option to add multiple pods with vLan option in dvSwitch

\ vSphere 7.x support

\ VM Migration across cluster for KVM

\ Support for XS 8.2.1

\ CloudStack

- KVM Rolling maintenance
- Enable additional configuration metadata to virtual machines

4.15.0.1

Tentative release – 2022.06

\ Add CPU weight as a parameter in deployVirtualMachine API

\ Maintain history of redundant router state changes

\ Maintain history of network id and public ip

\ NTP configuration on CloudPlatform system VMs

\ Network offering details UI to list shared networks

\ Option to filter the public, management and storage ip ranges

\ Option to use dynamicallyscalable function in RCP UI while registering ISO

\ Bypass secondary storage for kvm offline volume migration

\ CloudStack

- Modern UI using vue.js*
- Support multile management network cidrs
- Allow deploy Admin VMs and VRs in disabled zones/pods/clusters
- Enable volume migration from shared mount point to nfs for kvm
- Support for removing unused port groups on VMWare

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User Group Resources

Link

Join our Discussion Forum

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Question & Answer

Let the discussion begin

See Beyond, Rise Above

Watch Brand Video