

Sify: Enabling Azure Hybrid Cloud Solutions



April 2021

USE CASE BRIEF

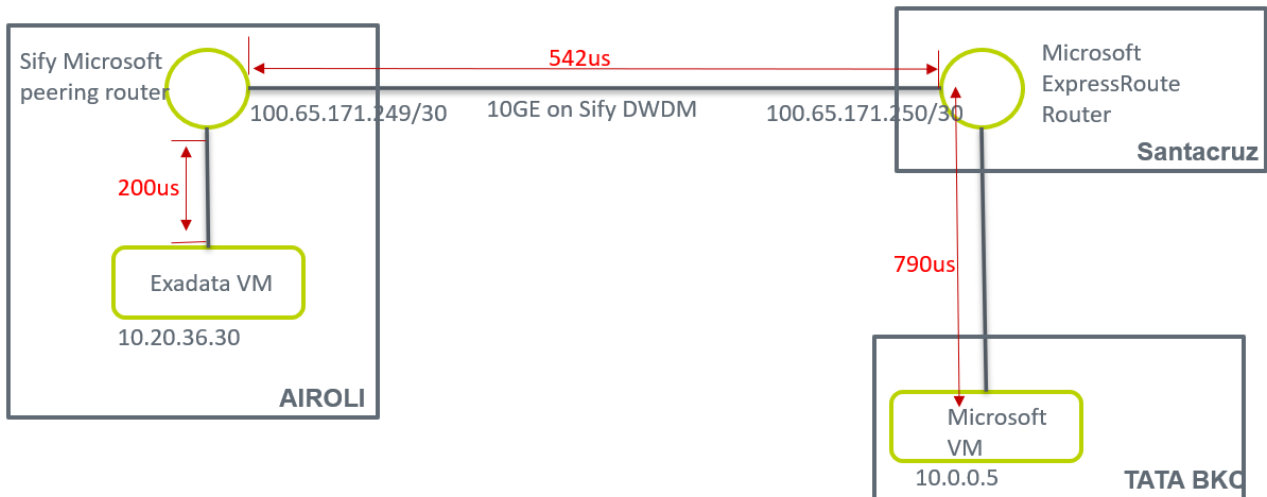
CHALLENGES BEING ADDRESSED | INDUSTRY WISE

SOLUTIONS

OUTCOME & BENEFITS

Sify Offerings for Hybrid Cloud Deployment with Azure

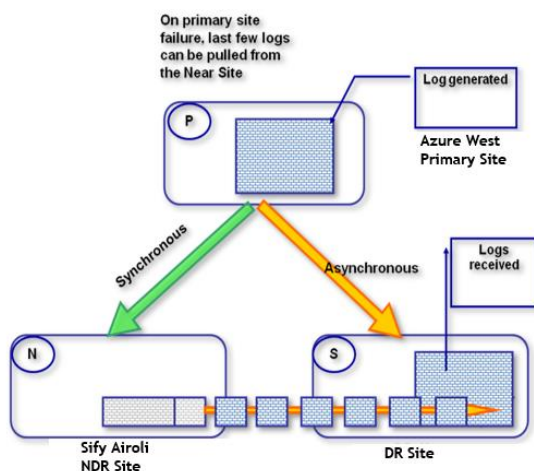
Sify Data Center and Network Services offers < 2ms RTT latency between Sify Airoli and Azure West



Following use cases are supported

- Disaster Recovery minimum RPO**
 Recovering to the last committed transaction for ZERO data loss

Azure West and Sify Airoli could be primary or NDR site for each other depending on the requirements



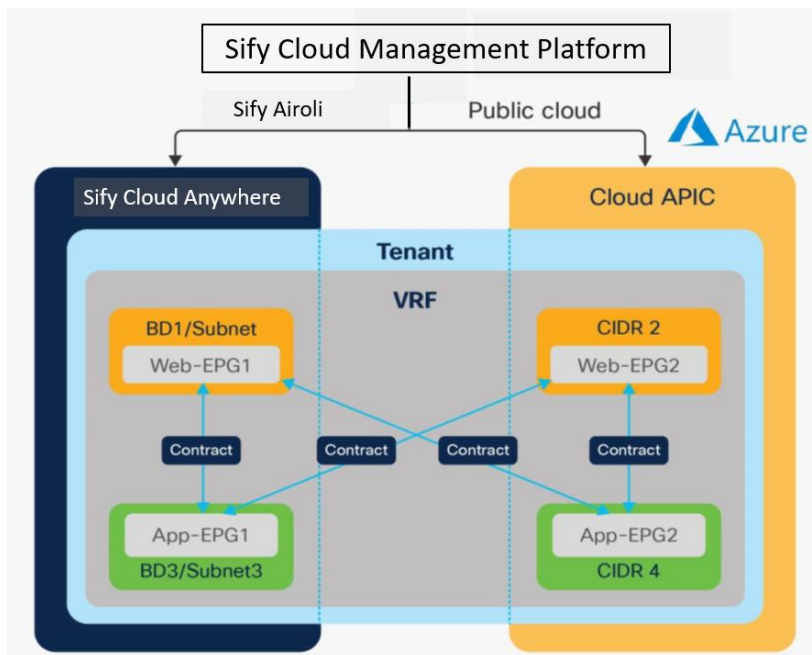
- **Sify Cloud Anywhere integrated with Azure**

Cisco ACI is technology partner

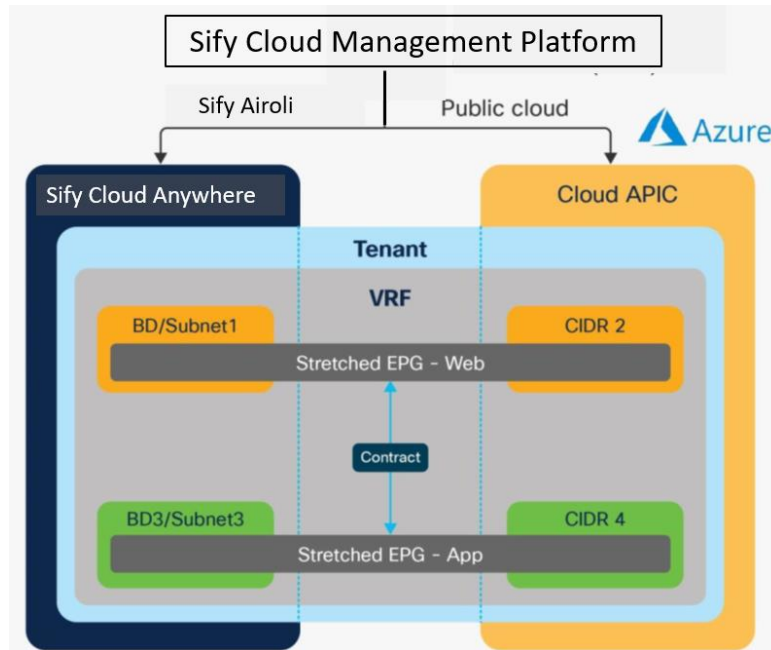
- High Availability of applications across Sify Airoli and Azure West
 - Applications can fail over between the Sify Airoli and the Azure West during a disaster recovery, or the application can be deployed in an active/active mode, where both private cloud application tiers and Azure West tiers are active. A Global Load Balancer can be configured to distribute traffic between the two sites.

Near DR Site

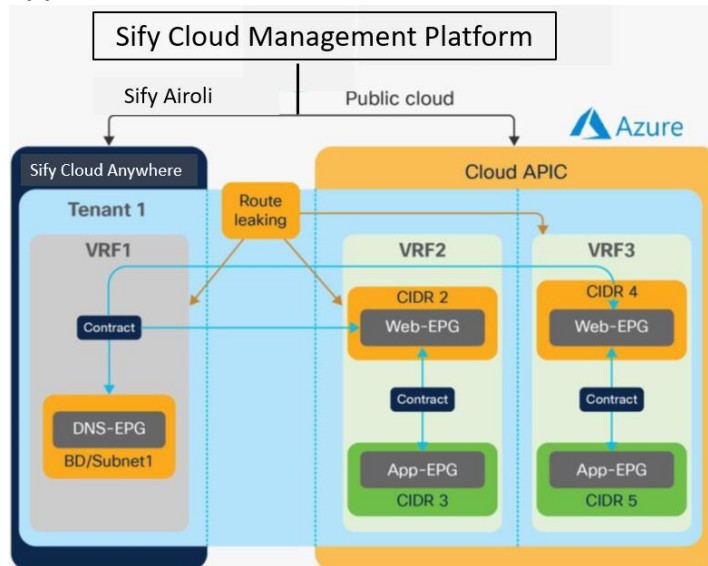
- Is outside of danger zone but closer than DR site
- Within very high-speed network limits
- Allows rapid transmission of transaction logs for zero data loss
- The links connecting DC to **NDR should not have average latency more than 2ms** as it will be used for synchronous replication between storages



- Cloud bursting: stretch multiple tiers to Azure cloud with consistent segmentation
 - Enables customers to stretch multiple tiers across the Sify Airoli and Azure West This enables customers to burst a tier to Azure West Cloud during times of peak load and access other tiers via secure segmentation policies.



- Shared services across Sify Airoli and Azure West
 - Enables shared services like authentication services (like AD) from single Sify Airoli provider tenant to be consumed by multiple consumer tenants spread across Azure West and Sify Airoli which makes it easier to deploy new applications in Azure cloud and consume shared services



from the brownfield network at Sify Airoli, without having to redeploy them for applications hosted in the Azure cloud.

- **Data Center Extension**

Depending on the workloads and SLA's

For regulatory and compliance requirements

- Application tier on Azure West Public Cloud and Database in Private Cloud at Sify Near Cloud/DR Airoli Data Center
- Database tier on Azure West Public Cloud and Application tier on Private Cloud at Sify Near Cloud/DR Airoli Data Center

- **Azure Stack deployed at Sify Airoli Near Cloud Data Center**

- Brings Azure to Customer Data Center
- Support Cloud applications to meet compliance and regulatory requirements
- Edge and Disconnected solutions
 - Real-time latency requirements
 - Connectivity issues
 - Local data processing
 - Use Azure for aggregate analytics and big data modelling
- Cloud application model on-premises
 - Apply modern architectures like Microservices and Containers to applications not yet ready for cloud
 - Move to Azure without code changes
 - Consistent programming model, skills, and processes

- **High Availability Deployments**

- Data protection and Fast failover for database across hybrid deployment with active-active or active-passive availability between Azure West Public Cloud and Sify Airoli Near Cloud/DR Private Cloud
- Disaster Recovery using Azure West Public Cloud or Sify Airoli Near Cloud/DR Private Cloud as second physical site and standby infrastructure

- **Workload Flexibility**

- Cloud Bursting
- Unlimited capacity

Benefits of Sify Azure Hybrid Cloud Solutions

Address all the challenges for enabling hybrid cloud by providing Cloud Adjacent Data Center Services, low latency, high bandwidth and secure connections to Azure Cloud for predictable performance and costs

- **Sify Data Center Services:**

- Workloads can be decoupled and deployed between Azure West Data Center Region Public Cloud and Near Cloud/DR DC at Airoli
- Customer requirement to have Data residency in Private Cloud or dedicated hosted environment can be deployed Near Cloud DC at Airoli
- High Availability, Data protection and Fast failover for database across hybrid deployment
- Any application using database running from Azure West Cloud can be deployed at Near Cloud Data Center at Airoli

- **Hosting Services**

- Colocation, Hybrid and Multi-Cloud

- **Cloud Adoption Strategy as a Service**

- **Assessment** of current state for infrastructure, application dependencies, cost
- Target state architecture with hosted private and hybrid multi-cloud solutions

- **Resiliency Services**

- Managed Backup and Disaster Recovery Services

- **Sify DC and Cloud Interconnect:**

- Predictable, secure, high performance and low latency end-to-end connections < 2ms

- **Sify Professional Services:** Implementation, Migration, Security Services and Managed Services, end-to-end solution across hybrid multi-cloud architecture

- **Migration and Implementation Services**

- Green field implementations, migration or upgrade
- Enterprise applications on hybrid cloud
- Infrastructure migration to hybrid cloud
- Cloud native applications implementation

- **Managed Services:** Provide consistent Operations Management to increase efficiency, reduce operational overhead and risk across end-to-end hybrid multi-cloud architectures including
 - Application Managed Services
 - Functional Support
 - Technical Support
 - Apps and DBA Support
 - Infrastructure Managed Services
 - Engineered Systems,
 - Hybrid cloud Deployments
- **Security Transformation Services for hybrid multi-cloud Architecture**
 - Identity and Access Management
 - (Zero Trust / Privileged Access Management / Cloud Access Security)
 - Managed Detection and Response Services