



# Virtual Network

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Secure Cloud Connectivity – with Granular Control, Segmentation, and Performance

**Build isolated, policy-driven networks with JioCloud Virtual Network – optimised for zero trust, smart routing, and full cloud visibility.**

## The Challenge

Managing cloud networks at scale is becoming increasingly complex.

- Misconfigured subnets and open access controls expose sensitive workloads to lateral threats.
- Lack of east-west visibility limits threat detection and containment.
- When network segmentation is done manually, teams face delays, inconsistencies, and added risk across deployments.
- Ensuring isolation, traffic monitoring, and access control gets harder as environments scale – especially under compliance pressure.



## The JioCloud Solution

JioCloud Virtual Network makes it easy to build secure, isolated networks across your cloud infrastructure. It gives teams fine-grained control over how workloads talk to each other - whether across environments, regions, or apps.

With built-in tools for IP planning, subnetting, traffic routing, and access control, you can segment networks based on workload, function, or compliance need. It integrates cleanly with firewalls, load balancers, and monitoring tools - so your policies are enforced consistently and automatically.

Whether you're rolling out new services or locking down existing ones, JioCloud Virtual Network helps you reduce risk, maintain visibility, and stay audit-ready without slowing teams down.



## Key Features

- **Custom IP addressing and subnetting**  
Define precise IP ranges and subnet layouts to align with app tiers and governance needs.
- **Traffic control with route tables and NSGs**  
Implement security-backed routing across subnets using network security groups and route tables.
- **Hybrid connectivity support**  
Extend your on-premises networks to the cloud using VPNs and direct connect gateways.

- **Environment-specific segmentation**  
Automate workload separation for dev, staging, and prod environments using repeatable templates.
- **Integrated traffic logs and monitoring**  
Gain real-time visibility into all traffic flows - critical for audits, RCA, and threat detection.
- **Cloud-native integrations**  
Works seamlessly with JioCloud firewalls, load balancers, and Kubernetes-native tooling.

## What You Gain

- **Stronger network security:** Isolate critical workloads and reduce attack surface with private, segmented networks.
- **Faster deployment with guardrails:** Predefined subnet templates and policies accelerate onboarding while minimising misconfigurations.
- **Complete traffic visibility:** Monitor east-west and north-south flows to detect anomalies and validate compliance.
- **Policy consistency across teams:** Centrally enforce access rules, routing logic, and segmentation across all environments.
- **Support for zero trust architecture:** Build network-level trust boundaries that align with identity, workload type, and context.



## Use Cases in Action

### National Bank - Securing Multi-Cloud Digital Infrastructure

To power internet banking, UPI APIs, and analytics platforms, a national bank uses JioCloud Virtual Network to connect services securely across cloud regions.

It segments workloads by environment — development, staging, and production, using isolated subnets with distinct access policies. Micro segmentation blocks lateral movement, and integrated monitoring tracks all traffic.

This architecture reduces risk, speeds up releases, and simplifies compliance with audit-ready network logs and routing policies.

## Who It's For

**Cloud network architects** - design secure cloud topologies across regions

**Security architects** - implement zero trust and traffic segmentation

**Network engineers** - manage routing, subnets, and access controls

**DevOps and platform teams** - integrate networking into CI/CD workflows

**Compliance officers** - validate isolation, logging, and governance

**Application owners** - ensure secure inter-service communication

## Why JioCloud

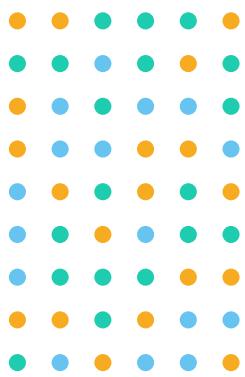
**Unified network and security management**  
Seamless control across subnets, policies, and monitoring - all from one place.

**Enterprise-grade scale and performance**  
Built for high-throughput workloads and compliant with SLAs.

**Microsegmentation made easy**  
Automate policy-based access across workloads and environments.

**In-region deployment for low latency**  
Ensures data sovereignty and optimal performance.

**Rich ecosystem integration**  
Compatible with JioCloud firewalls, load balancers, and observability tools.



## Ready to Reinforce Your Cloud Perimeter?

Email us at [jpl.cloudsales@ril.com](mailto:jpl.cloudsales@ril.com) or visit [\(website\)](#) to deploy JioCloud Virtual Network for secure, segmented, and scalable cloud infrastructure.

