

# SECURITY POLICY MANAGEMENT FOR THE HYBRID CLOUD ENVIRONMENT



Enterprises are flocking to the cloud because of the agility and ease with which business applications can be deployed there. However, the cloud is based on a software-defined security architecture that is fundamentally different from that of physical networks. As a result, security, network operations and application teams are struggling to identify and migrate the necessary application connectivity flows to cloud security controls, and then manage network security policies cohesively across the entire hybrid enterprise environment. It's currently a complex, tedious and error-prone process that compromises security, compliance and business agility.

## Key Challenges

- Defining application connectivity requirements prior to migration.
- Translating on-premise connectivity in the form of firewall and router rules into cloud security controls.
- A lack of unified visibility across the hybrid environment.
- Manual and error-prone change management processes.
- Ensuring regulatory and corporate compliance.

## Security Policy Management for the Hybrid Cloud Environment

AlgoSec automatically discovers, maps and migrates application connectivity to the cloud, through easy-to-use workflows. Prior to making any changes, AlgoSec assesses all proposed network security policy changes for risk, to ensure secure network access and avoid application outages and compliance violations.

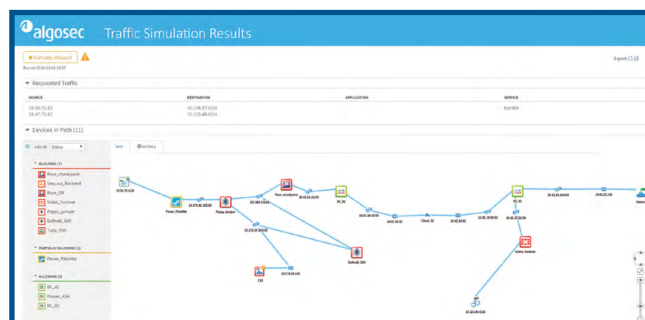
Once application connectivity has been migrated, AlgoSec delivers unified security policy management across traditional and next-generation firewalls deployed on-premise and cloud security controls, including AWS and Microsoft Azure, to ensure that your entire enterprise environment is always secure and compliant.



## Microsoft Azure

### Highlights

- Unify security policy management across the hybrid cloud environment
- Accelerate application migrations to the public cloud
- Get full visibility, including change monitoring, of on-premise firewalls alongside cloud security controls, in a single pane
- Automate security policy change management to eliminate misconfigurations
- Proactively assess risk to avoid outages
- Ensure security and compliance across the hybrid environment



## Easily Plan and Migrate Application Connectivity to the Cloud

AlgoSec automatically discovers and maps the existing network infrastructure, including security devices and connectivity flows, for every application you want to migrate to the cloud. With this information you can then accurately define the application connectivity flows – before migration – and assess the impact of these connectivity changes on performance and compliance across the hybrid environment.

When you're ready to migrate, AlgoSec's easy-to-use workflows will navigate you through the entire process. AlgoSec provides recommendations on how to modify the connectivity flows, and generates hundreds of change requests for traditional firewall and router rules and cloud security group policies – thereby simplifying an extremely complex and risky process, and saving significant time and effort.

Once you've completed the migration process, AlgoSec uniquely identifies the redundant on-premise security policies that can be safely removed, as well as the rules that should not be removed because they are used by

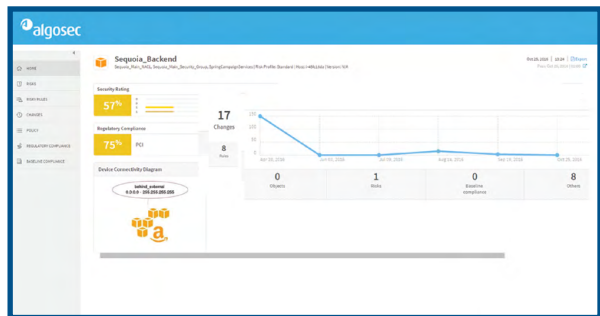
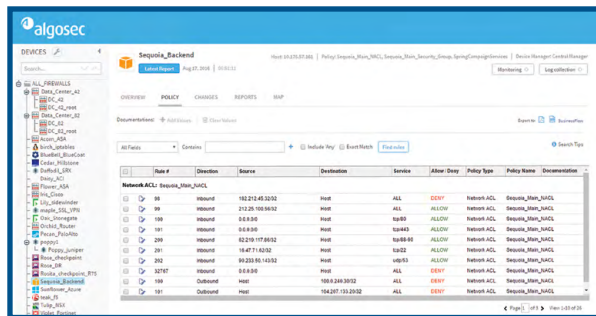
other applications – helping you avoid gaps in your security perimeter, and ensuring a clean and secure network environment.

## Manage Security Policies Across the Hybrid Cloud Environment

Once your business applications are deployed in the cloud, AlgoSec can automatically manage cloud security controls alongside your traditional firewalls to provide unified security policy management for the entire hybrid enterprise.

With AlgoSec you can:

- Get full visibility across the entire hybrid environment through a single pane of glass
- Automatically monitor and manage changes to cloud security controls alongside traditional firewalls
- Proactively detect unauthorized or risky changes that break compliance and inefficient or unnecessary policies
- Instantly generate compliance reports for regulatory standards and corporate policies



## Comprehensive Support for Heterogeneous Environments

AlgoSec seamlessly supports traditional firewalls, NGFWs and cloud security controls as well as routers, load balancers and web proxies, and SIEM solutions from the leading vendors to deliver unified security policy management across any heterogeneous environment.



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