ANSIBLE

Network Architecture & Segmentation Analysis

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Total Network Flows: 12  
Classification: Internal Use Only

# Table of Contents

1. Executive Summary

2. Network Flow Statistics

3. Server Infrastructure by Tier

4. Application Dependencies

5. Network Segmentation Recommendations

6. Firewall Rules Requirements

7. VMware Infrastructure

# Executive Summary

This document provides a comprehensive architecture analysis of the ANSIBLE application, including its internal server structure, network dependencies, and security recommendations.

|  |  |  |  |
| --- | --- | --- | --- |
| 12 Total Flows | 9 Unique Servers | 6 Unique Ports | 2 Protocols |

# Network Flow Statistics

|  |  |  |
| --- | --- | --- |
| Flow Type | Count | Percentage |
| Internal Flows | 2 | 16.7% |
| Outbound to Apps | 2 | 16.7% |
| External/Internet | 8 | 66.7% |
| TOTAL | 12 | 100% |

# Server Infrastructure by Tier

This section details the server infrastructure organized by functional tier (Web, Application, Database, etc.).

## App Tier (4 servers)

|  |  |  |
| --- | --- | --- |
| # | IP Address | Hostname |
| 1 | 192.168.1.103 | APP-SERVER-01.rgbk.com |
| 2 | 10.164.92.169 | API-GATEWAY.rgbk.com |
| 3 | 10.100.246.18 | APP-SERVER-01.rgbk.com |
| 4 | 10.10.10.50 | APP-SERVER-01.rgbk.com |

## Database Tier (5 servers)

|  |  |  |
| --- | --- | --- |
| # | IP Address | Hostname |
| 1 | 10.164.92.166 | host01.rgbk.com |
| 2 | 172.16.0.12 | DB-SERVER-01.rgbk.com |
| 3 | 10.10.10.51 | WPEVISQL02.corp.rgbk.com |
| 4 | 10.164.92.169 | DB-SERVER-01.rgbk.com |
| 5 | 172.16.0.12 | host02.corp.local |

## Web Tier (3 servers)

|  |  |  |
| --- | --- | --- |
| # | IP Address | Hostname |
| 1 | 10.100.246.20 | WEB-SERVER-01.corp.local |
| 2 | 192.168.1.102 | WEB-VM-01.rgbk.com |
| 3 | 192.168.1.102 | VM-Server-03.rgbk.com |

# Application Dependencies

ANSIBLE has dependencies on 2 external applications:

|  |  |  |  |
| --- | --- | --- | --- |
| Application | Flows | Unique IPs | Protocols |
| ALIBABA | 2 | 2 | UDP, TCP |
| ANSIBLE | 2 | 2 | UDP, TCP |

# Network Segmentation Recommendations

Based on the network flow analysis, the following segmentation strategy is recommended:

## Recommended Segmentation Zones

**DMZ / Web Tier [HIGH]**

Description: Public-facing web servers

Servers: 3 nodes

**Application Tier [MEDIUM]**

Description: Business logic servers

Servers: 4 nodes

**Data Tier [CRITICAL]**

Description: Database servers

Servers: 5 nodes