Migration Plan

High-Level Migration Plan

RCL Foods



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**Preparation**

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| Prepared by: | Nickyle Alwar | Technical Architect |  |
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# Executive Summary

## Overview

This migration plan outlines the strategic approach for transitioning identified **RCL Foods** Azure resources from the current CSP/MCA subscriptions to a new MCA subscription within the same tenant. The migration encompasses two distinct environments—Production and Development—and will be executed in a phased approach to minimize business disruption while ensuring service continuity.

### Key Migration Components

1. **Two Environment Migration:** Structured approach for both Production and Development environments.
2. **Phased Implementation:** Sequential migration starting with core infrastructure, proceeding to Development, and concluding with Production.
3. **Resource Integrity:** Comprehensive pre- and post-migration validation to ensure all services function correctly.
4. **Business Continuity:** Careful scheduling of migrations to minimize operational impact.

### Timeline and Approach

The migration will be executed over approximately **2 - 3 weeks**, beginning with preparation activities and core infrastructure setup (Landing Zone). The Development environment will be migrated first to validate procedures before applying them to the more critical Production environment. Network infrastructure will be established first in the new subscription, creating the foundation for subsequent resource migrations.

### Expected Outcomes

* Successful transition of identified Azure resources to the new MCA subscription model.
* Maintained application functionality throughout and after migration.
* Optimized resource organization in the new subscription.
* Seamless user experience with minimal disruption to operations.
* Compliant and properly governed cloud environment post transition.

### Key Stakeholders

The key stakeholder for the project are identified below:

|  |  |
| --- | --- |
| Cloud Architect | Nickyle Alwar |
| Cloud Engineer | Leroy Fourie |
| Security Engineer | Johannes Pienaar |
| Network Consultant | Dinesh Singh |
| Service Delivery Manager (SDM) | Ron Abbu |

Table 1: Key Stakeholders

### RACI Matrix

The RACI matrix, with key activities have been listed in the table below:

|  | Activity | Cloud Architect | Cloud Engineer | Security Engineer | Network Consultant | SDM |
| --- | --- | --- | --- | --- | --- | --- |
| **Planning** | Resource inventory & assessment | A/R | C | I | C | I |
| Migration strategy definition | A/R | C | C | C | I |
| Dependency mapping | A | R | C | C | I |
| Migration schedule & timeline | A | C | I | C | I |
| **Pre-Migration** | Access control setup | A | R | C | I | I |
| Network configuration planning | A | C | C | C | I |
| Backup & rollback plans | A | R | C | C | I |
| **Execution** | Moving/recreating resources | C | A/R | I | I | I |
| Recreating networking resources | C | A/R | I | C | I |
| ExpressRoute circuit activation | I | C | I | A/R | I |
| **Validation** | IP and DNS changes | C | A/R | I | I | I |
| Performance testing | C | A/R | I | C | I |
| Firewall configuration validation | I | C | A/R | C | I |
| Network connectivity testing | I | A/R | C | A/R | I |
| **Post-Migration** | Decommission unused resources | I | A/R | I | I | C |
| Document updates and as built | A | R | C | C | I |
| Knowledge transfer | C | R | C | C | A |
| Handover documentation | C | R | C | C | A/R |
| Post-migration support | I | I/C | C | C | A/R |

Table 2: RACI Matrix

# High-Level Design

Diagram below depicts the RCL Foods Azure environment at an end state:

A screenshot of a computer

AI-generated content may be incorrect.

Figure 1: High-Level Architecture

# Phase 1: Preparation

The preparation phase establishes the foundation for a successful migration by thoroughly documenting the current environment, setting up the new subscription infrastructure, and creating comprehensive migration strategies. This phase is critical for risk mitigation and ensures all stakeholders understand the migration approach. During this period, we'll gather all necessary information, establish governance frameworks, and prepare the new environment to receive migrated resources.

## Production Environment

### Enterprise MCA - Production

This section lists all production resources identified for migration:

#### Resource Groups

The resources groups and resources respectively below have been identified for resource migration:

##### zanrgrgldzp001

| Name | Resource Group | Region | Resource Type | Action |
| --- | --- | --- | --- | --- |
| zanrgfwldzp01 | zanrgrgldzp001 | southafricanorth | Microsoft.Network/azureFirewalls | Disabled |
| FirewallPolicy | zanrgrgldzp001 | southafricanorth | Microsoft.Network/azureFirewallManager | Recreate |
| zanrgagwafp01 | zanrgrgldzp001 | southafricanorth | Microsoft.Network/applicationGateways | Recreate |
| zanrgfwpip001 | zanrgrgldzp001 | southafricanorth | Microsoft.Network/publicIPAddresses | Recreate |
| zanrgwafpip01 | zanrgrgldzp001 | southafricanorth | Microsoft.Network/publicIPAddresses | Recreate |
| zanrgvnetldzp-181.0.0.0-16-ip | zanrgrgldzp001 | southafricanorth | Microsoft.Network/publicIPAddresses | Recreate |
| zanrgergwpip01 | zanrgrgldzp001 | southafricanorth | Microsoft.Network/publicIPAddresses | Recreate |
| zanrgfwpip001 | zanrgrgldzp001 | southafricanorth | Microsoft.Network/publicIPAddresses | Recreate |
| zanrgkvp01 | zanrgrgldzp001 | southafricanorth | Microsoft.KeyVault/vaults | Delete |
| zanrgrgldzp001guestdiag | zanrgrgldzp001 | southafricanorth | Microsoft.Storage/storageAccounts | Delete |
| zanrgwaactp01-pe | zanrgrgldzp001 | southafricanorth | Microsoft.Network/privateEndpoints | Recreate and Update DNS |
| privatelink.azurewebsites.net | zanrgrgldzp001 | Global | Microsoft.Network/DNSZones | Recreate |
| privatelink.database.windows.net | zanrgrgldzp001 | Global | Microsoft.Network/DNSZones | Recreate |

Table 3: zanrgergwp01

### Production Subscription (CSP)

This section lists all production resources identified for migration:

#### Resource Groups

The resources groups and resources respectively below have been identified for resource migration:

##### zanrgrgldzp001

The virtual network will be excluded from migration as there will be newly deployed networks with different IP ranges.

| Name | Resource Group | Region | Resource Type | Action |
| --- | --- | --- | --- | --- |
| zanrgvnetldzp-181.0.0.0-16 | zanrgrgldzp001 | southafricanorth | Microsoft.Network/virtualNetworks | Excluded |
| zanrgergwp01 | zanrgrgldzp001 | southafricanorth | Microsoft.Network/virtualNetworkGateways | Recreate |
| adb-southafricanorth-fc144e6125f4be830a111b7f | zanrgrgldzp001 | southafricanorth | Microsoft.Network/networkIntentPolicies | Migrate |
| zanrgergwpip01 | zanrgrgldzp001 | southafricanorth | Microsoft.Network/publicIPAddresses | Recreate |
| adb-southafricanorth-7ab4429f617dfb1ab5771e9b | zanrgrgldzp001 | southafricanorth | Microsoft.Network/networkIntentPolicies | Migrate |
| RCL-ER-Conn | zanrgrgldzp001 | southafricanorth | Microsoft.Network/connections | Recreate |
| zanrgfwpip001 | zanrgrgldzp001 | southafricanorth | Microsoft.Network/publicIPAddresses | Recreate |
| zanrgkvp01 | zanrgrgldzp001 | southafricanorth | Microsoft.KeyVault/vaults | Migrate |
| zanrgergwpip02 | zanrgrgldzp001 | southafricanorth | Microsoft.Network/publicIPAddresses | Recreate |
| zanrgfwrtp01 | zanrgrgldzp001 | southafricanorth | Microsoft.Network/routeTables | Recreate |
| zanrgnsgssp001 | zanrgrgldzp001 | southafricanorth | Microsoft.Network/networkSecurityGroups | Excluded |
| zanrgrgldzp001guestdiag | zanrgrgldzp001 | southafricanorth | Microsoft.Storage/storageAccounts | Migrate |
| zanrgvnetldzp-181.0.0.0-16-ip | zanrgrgldzp001 | southafricanorth | Microsoft.Network/publicIPAddresses | Recreate |
| Express Route Bits in Per Second more than 500kps | zanrgrgldzp001 | global | microsoft.insights/metricalerts | Recreate |
| Express Route Bits Out Per Second more than 500kps | zanrgrgldzp001 | global | microsoft.insights/metricalerts | Recreate |
| zanrgercp01 | zanrgrgldzp001 | southafricanorth | Microsoft.Network/expressRouteCircuits | Recreate |

Table 4: zanrgrgldzp001

##### AzureBackupRG\_southafricanorth\_1

| Name | Resource Group | Region | Resource Type | Action |
| --- | --- | --- | --- | --- |
| AzureBackup\_zanrgvmbaip01\_3602985255390791706 | AzureBackupRG\_southafricanorth\_1 | southafricanorth | Microsoft.Compute/restorePointCollections | Recreate |
| AzureBackup\_zanrgvmhryp01\_3602985256607791892 | AzureBackupRG\_southafricanorth\_1 | southafricanorth | Microsoft.Compute/restorePointCollections | Delete |

Table 5: AzureBackupRG\_southafricanorth\_1

##### cloud-shell-storage-eastus

Resource group is empty and excluded from subscription migration.

##### cloud-shell-storage-westeurope

| Name | Resource Group | Region | Resource Type | Action |
| --- | --- | --- | --- | --- |
| csb10032000c70724d2 | cloud-shell-storage-westeurope | westeurope | Microsoft.Storage/storageAccounts | Delete |

Table 6: cloud-shell-storage-westeurope

##### Default-ActivityLogAlerts

| Name | Resource Group | Region | Resource Type | Migration Support |
| --- | --- | --- | --- | --- |
| prod\_vm\_high\_cpu | Default-ActivityLogAlerts | Global | Action Group | Recreate |

Table 7: Default-ActivityLogAlerts

##### DefaultResourceGroup-JNB

| Name | Resource Group | Region | Resource Type | Action |
| --- | --- | --- | --- | --- |
| DefaultWorkspace-a9593abb-4cb1-48f4-9079-d96da5966ac2-JNB | DefaultResourceGroup-JNB | southafricanorth | Microsoft.OperationalInsights/workspaces | Migrate |
| Security(DefaultWorkspace-a9593abb-4cb1-48f4-9079-d96da5966ac2-JNB) | defaultresourcegroup-jnb | southafricanorth | Microsoft.OperationsManagement/solutions | Migrate |
| SecurityCenterFree(DefaultWorkspace-a9593abb-4cb1-48f4-9079-d96da5966ac2-JNB) | defaultresourcegroup-jnb | southafricanorth | Microsoft.OperationsManagement/solutions | Migrate |

Table 8: DefaultResourceGroup-JNB

##### DefaultResourceGroup-WEU

| Name | Resource Group | Region | Resource Type | Action |
| --- | --- | --- | --- | --- |
| Automate-4510920-WEU/SecurityBaselineConfigurationWS2012R2 | defaultresourcegroup-weu | westeurope | Microsoft.Automation/automationAccounts/configurations | Migrate |
| Automate-4510920-WEU/AutoStop\_VM\_Child | defaultresourcegroup-weu | westeurope | Microsoft.Automation/automationAccounts/runbooks | Migrate |
| Automate-4510920-WEU/SecurityBaselineConfigurationWS2016 | defaultresourcegroup-weu | westeurope | Microsoft.Automation/automationAccounts/configurations | Migrate |
| Automate-4510920-WEU/SecurityBaselineConfigurationWS2012 | defaultresourcegroup-weu | westeurope | Microsoft.Automation/automationAccounts/configurations | Migrate |
| SQLVulnerabilityAssessment(defaultloganalyticworkspacerclprod) | defaultresourcegroup-weu | westeurope | Microsoft.OperationsManagement/solutions | Migrate |
| Automate-4510920-WEU/SecurityBaselineConfigurationWS2008R2SP1 | defaultresourcegroup-weu | westeurope | Microsoft.Automation/automationAccounts/configurations | Migrate |
| Automate-4510920-WEU/AutoStop\_CreateAlert\_Parent | defaultresourcegroup-weu | westeurope | Microsoft.Automation/automationAccounts/runbooks | Migrate |
| Automate-4510920-WEU/AutoStop\_CreateAlert\_Child | defaultresourcegroup-weu | westeurope | Microsoft.Automation/automationAccounts/runbooks | Migrate |
| Automate-4510920-WEU/AutoStop\_VM\_Child\_ARM | defaultresourcegroup-weu | westeurope | Microsoft.Automation/automationAccounts/runbooks | Migrate |
| AzureActivity(DefaultLogAnalyticWorkspaceRclProd) | defaultresourcegroup-weu | westeurope | Microsoft.OperationsManagement/solutions | Migrate |
| Automate-4510920-WEU/ScheduledStartStop\_Child | defaultresourcegroup-weu | westeurope | Microsoft.Automation/automationAccounts/runbooks | Migrate |
| Automate-4510920-WEU/AzureAutomationTutorialPython2 | defaultresourcegroup-weu | westeurope | Microsoft.Automation/automationAccounts/runbooks | Migrate |
| SQLAdvancedThreatProtection(defaultloganalyticworkspacerclprod) | defaultresourcegroup-weu | westeurope | Microsoft.OperationsManagement/solutions | Migrate |
| Automate-4510920-WEU/AzureAutomationTutorialScript | defaultresourcegroup-weu | westeurope | Microsoft.Automation/automationAccounts/runbooks | Migrate |
| Automate-4510920-WEU/AzureFirewallRunBook | defaultresourcegroup-weu | westeurope | Microsoft.Automation/automationAccounts/runbooks | Migrate |
| Automate-4510920-WEU/Synapse\_RESUME | defaultresourcegroup-weu | westeurope | Microsoft.Automation/automationAccounts/runbooks | Migrate |
| Automate-4510920-WEU/ScheduledStartStop\_Child\_Classic | defaultresourcegroup-weu | westeurope | Microsoft.Automation/automationAccounts/runbooks | Migrate |
| Automate-4510920-WEU/ScheduledStartStop\_Parent | defaultresourcegroup-weu | westeurope | Microsoft.Automation/automationAccounts/runbooks | Migrate |
| Automate-4510920-WEU/Stop\_euwvlaaspbip01 | defaultresourcegroup-weu | westeurope | Microsoft.Automation/automationAccounts/runbooks | Delete |
| ScheduledStartStop\_Parent | defaultresourcegroup-weu | westeurope | Microsoft.Insights/scheduledqueryrules | Migrate |
| DefaultLogAnalyticWorkspaceRclProd | DefaultResourceGroup-WEU | westeurope | Microsoft.OperationalInsights/workspaces | Migrate |
| DCR-CSP-PROD-EUW-extensions | DefaultResourceGroup-WEU | westeurope | Microsoft.Insights/dataCollectionRules | Recreate |
| DCR-CSP-PROD-EUW | DefaultResourceGroup-WEU | westeurope | Microsoft.Insights/dataCollectionRules | Recreate |
| Automate-4510920-WEU | defaultresourcegroup-weu | westeurope | Microsoft.Automation/automationAccounts | Migrate |
| defaultresourcegroupw734 | DefaultResourceGroup-WEU | southafricanorth | Microsoft.Storage/storageAccounts | Migrate |
| Automate-4510920-WEU/AzureAutomationTutorial | defaultresourcegroup-weu | westeurope | Microsoft.Automation/automationAccounts/runbooks | Migrate |
| ChangeTracking(defaultloganalyticworkspacerclprod) | defaultresourcegroup-weu | westeurope | Microsoft.OperationsManagement/solutions | Migrate |
| Automate-4510920-WEU/SequencedStartStop\_Parent | defaultresourcegroup-weu | westeurope | Microsoft.Automation/automationAccounts/runbooks | Migrate |
| VMInsights(DefaultLogAnalyticWorkspaceRclProd) | DefaultResourceGroup-WEU | westeurope | Microsoft.OperationsManagement/solutions | Migrate |
| Automate-4510920-WEU/SecurityBaselineConfigurationWS2008SP2 | defaultresourcegroup-weu | westeurope | Microsoft.Automation/automationAccounts/configurations | Migrate |
| Automate-4510920-WEU/ScheduledStartStop\_Base\_Classic | defaultresourcegroup-weu | westeurope | Microsoft.Automation/automationAccounts/runbooks | Migrate |
| Automate-4510920-WEU/StartAzureV2Vm | defaultresourcegroup-weu | westeurope | Microsoft.Automation/automationAccounts/runbooks | Migrate |
| Automate-4510920-WEU/AutoStop\_Disable | defaultresourcegroup-weu | westeurope | Microsoft.Automation/automationAccounts/runbooks | Migrate |
| SecurityCenterFree(defaultloganalyticworkspacerclprod) | defaultresourcegroup-weu | westeurope | Microsoft.OperationsManagement/solutions | Migrate |
| SequencedStartStop\_Parent | defaultresourcegroup-weu | westeurope | Microsoft.Insights/scheduledqueryrules | Migrate |
| Updates(defaultloganalyticworkspacerclprod) | defaultresourcegroup-weu | westeurope | Microsoft.OperationsManagement/solutions | Migrate |
| Automate-4510920-WEU/Start\_euwvlaaspbip01 | defaultresourcegroup-weu | westeurope | Microsoft.Automation/automationAccounts/runbooks | Delete |
| Security(defaultloganalyticworkspacerclprod) | defaultresourcegroup-weu | westeurope | Microsoft.OperationsManagement/solutions | Migrate |
| AutoStop\_VM\_Child | defaultresourcegroup-weu | westeurope | Microsoft.Insights/scheduledqueryrules | Migrate |
| Automate-4510920-WEU/Synapse\_PAUSE | defaultresourcegroup-weu | westeurope | Microsoft.Automation/automationAccounts/runbooks | Migrate |
| Automate-4510920-WEU/Bootstrap\_Main | defaultresourcegroup-weu | westeurope | Microsoft.Automation/automationAccounts/runbooks | Migrate |

Table 9: DefaultResourceGroup-WEU

##### NetworkWatcherRG

| Name | Resource Group | Region | Resource Type | Action |
| --- | --- | --- | --- | --- |
| NetworkWatcher\_southafricanorth | NetworkWatcherRG | southafricanorth | Microsoft.Network/networkWatchers | Delete |
| NetworkWatcher\_westeurope | NetworkWatcherRG | westeurope | Microsoft.Network/networkWatchers | Migrate |

Table 10: NetworkWatcherRG

##### ResourceGroup-NorthEurope

Resource group is empty and excluded from subscription migration.

##### Site-recovery-vault-RG

| Name | Resource Group | Region | Resource Type | Action |
| --- | --- | --- | --- | --- |
| Site-recovery-vault-westeurope | Site-recovery-vault-RG | westeurope | Microsoft.RecoveryServices/vaults | Migrate |
| site-reco-bxk-asr-automationaccount | site-recovery-vault-rg | westeurope | Microsoft.Automation/automationAccounts | Migrate |

Table 11: Site-recovery-vault-RG

##### workspacemanagedrg-d9410cd2-c893-481a-8042-f93d9c71f95b

Resource group is empty and excluded from subscription migration.

##### zanrgrgbaip001

BI components excluded from migration for this project.

##### zanrgrgbaip001-asr

BI components excluded from migration for this project.

##### zanrgrgbaip002

BI components excluded from migration for this project.

##### zanrgrgldzp001-asr

Resource group excluded from migration.

## Development Environment

This section lists all development resources identified for migration:

### Resource Groups

The resources groups below have been identified for resource migration:

#### AzureBackupRG\_southafricanorth\_1

**Activities:**

1. Recreate the restore point collection and activity log alert service
2. Delete the AzureBackup\_zanrgvmddtd03\_3602967662868878857 service

| Name | Resource Group | Region | Resource Type | Action |
| --- | --- | --- | --- | --- |
| AzureBackup\_zanrgvmddtd03\_3602967662868878857 | AzureBackupRG\_southafricanorth\_1 | southafricanorth | Microsoft.Compute/restorePointCollections | Delete |
| AzureBackup\_zanrgvmbaid01\_3602967663664209847 | AzureBackupRG\_southafricanorth\_1 | southafricanorth | Microsoft.Compute/restorePointCollections | Recreate |
| Dev VM Started | AzureBackupRG\_southafricanorth\_1 | southafricanorth | microsoft.insights/activitylogalerts | Recreate |

Table 12: AzureBackupRG\_southafricanorth\_1

#### DefaultResourceGroup-EUS

**Activities:**

1. Recreate the Microsoft.OperationsManagement/solutions:

* Create new workspace
* Install solutions
* Reconnect data sources
* Reconfigure integrations

1. Recreate the microsoft.insights/ActivityLogAlerts:

* Dev VM Started
* Dev VM Stopped
* Dev-ServiceHealth

1. Delete the following services:

* HarryDev-ResourceHealth

| Name | Resource Group | Region | Resource Type | Action |
| --- | --- | --- | --- | --- |
| DefaultWorkspace-5aa97888-f9b5-4111-8f25-c60883777092-EUS | DefaultResourceGroup-EUS | eastus | Microsoft.OperationalInsights/workspaces | Migrate |
| SQLVulnerabilityAssessment(DefaultWorkspace-5aa97888-f9b5-4111-8f25-c60883777092-EUS) | defaultresourcegroup-eus | eastus | Microsoft.OperationsManagement/solutions | Migrate |
| Security(DefaultWorkspace-5aa97888-f9b5-4111-8f25-c60883777092-EUS) | defaultresourcegroup-eus | eastus | Microsoft.OperationsManagement/solutions | Migrate |
| SecurityCenterFree(DefaultWorkspace-5aa97888-f9b5-4111-8f25-c60883777092-EUS) | defaultresourcegroup-eus | eastus | Microsoft.OperationsManagement/solutions | Migrate |
| SQLAdvancedThreatProtection(DefaultWorkspace-5aa97888-f9b5-4111-8f25-c60883777092-EUS) | defaultresourcegroup-eus | eastus | Microsoft.OperationsManagement/solutions | Migrate |
| Dev VM Started | defaultresourcegroup-eus | eastus | microsoft.insights/activitylogalerts | Recreate |
| Dev VM Stopped | defaultresourcegroup-eus | eastus | microsoft.insights/activitylogalerts | Recreate |
| Dev-ServiceHealth | defaultresourcegroup-eus | eastus | microsoft.insights/activitylogalerts | Recreate |
| HarryDev-ResourceHealth | defaultresourcegroup-eus | eastus | microsoft.insights/activitylogalerts | Delete |

Table 13: DefaultResourceGroup-EUS

#### DefaultResourceGroup-WEU-Dev

**Activities:**

1. Move Microsoft.web/insights services:

* ASP-DefaultResourceGroupWEUDev-9fa2
* CubeQueryFunctionsTest
* Rclssasautoscale

1. Move Microsoft.automation/automationaccounts services:

* Automate-Dev-WEU
* All Automate-Dev runbooks

1. Recreate the Microsoft.OperationsManagement/solutions:

* Create new workspace
* Install solutions
* Reconnect data sources
* Reconfigure integrations

1. Delete the following services:

* Automate-Dev-WEU/Stop\_euwvlaaspbid01
* Automate-Dev-WEU/Start\_euwvlaaspbid01
* Automate-Dev-WEU/HarryDev\_ScheduledStartStop\_Parent

| Name | Resource Group | Region | Resource Type | Action |
| --- | --- | --- | --- | --- |
| rclssasautoscale | DefaultResourceGroup-WEU-Dev | westeurope | Microsoft.Web/sites | Migrate |
| Automate-Dev-WEU/AutoStop\_VM\_Child | defaultresourcegroup-weu-dev | westeurope | Microsoft.Automation/automationAccounts/runbooks | Migrate |
| Automate-Dev-WEU/AutoStop\_VM\_Child\_ARM | defaultresourcegroup-weu-dev | westeurope | Microsoft.Automation/automationAccounts/runbooks | Migrate |
| Automate-Dev-WEU/StartStop-AzureSynapseSqlPool | DefaultResourceGroup-WEU-Dev | westeurope | Microsoft.Automation/automationAccounts/runbooks | Migrate |
| Automate-Dev-WEU/AzureAutomationTutorial | DefaultResourceGroup-WEU-Dev | westeurope | Microsoft.Automation/automationAccounts/runbooks | Migrate |
| Automate-Dev-WEU/SecurityBaselineConfigurationWS2008SP2 | DefaultResourceGroup-WEU-Dev | westeurope | Microsoft.Automation/automationAccounts/configurations | Migrate |
| Automate-Dev-WEU | defaultresourcegroup-weu-dev | westeurope | Microsoft.Automation/automationAccounts | Migrate |
| SequencedStartStop\_Parent | defaultresourcegroup-weu-dev | westeurope | Microsoft.Insights/scheduledqueryrules | Migrate |
| Automate-Dev-WEU/SecurityBaselineConfigurationWS2016 | DefaultResourceGroup-WEU-Dev | westeurope | Microsoft.Automation/automationAccounts/configurations | Migrate |
| AutoStop\_VM\_Child | defaultresourcegroup-weu-dev | westeurope | Microsoft.Insights/scheduledqueryrules | Migrate |
| VMInsights(loganalyticworkspacercldev) | defaultresourcegroup-weu-dev | westeurope | Microsoft.OperationsManagement/solutions | Migrate |
| Updates(loganalyticworkspacercldev) | defaultresourcegroup-weu-dev | westeurope | Microsoft.OperationsManagement/solutions | Migrate |
| Automate-Dev-WEU/StartStop-AzureAnalysisServices | defaultresourcegroup-weu-dev | westeurope | Microsoft.Automation/automationAccounts/runbooks | Migrate |
| Automate-Dev-WEU/SequencedStartStop\_Parent | defaultresourcegroup-weu-dev | westeurope | Microsoft.Automation/automationAccounts/runbooks | Migrate |
| Automate-Dev-WEU/AzureAutomationTutorialPython2 | DefaultResourceGroup-WEU-Dev | westeurope | Microsoft.Automation/automationAccounts/runbooks | Migrate |
| Automate-Dev-WEU/AzureSynapsePause | DefaultResourceGroup-WEU-Dev | westeurope | Microsoft.Automation/automationAccounts/runbooks | Migrate |
| ChangeTracking(loganalyticworkspacercldev) | defaultresourcegroup-weu-dev | westeurope | Microsoft.OperationsManagement/solutions | Migrate |
| Automate-Dev-WEU/SecurityBaselineConfigurationWS2012R2 | DefaultResourceGroup-WEU-Dev | westeurope | Microsoft.Automation/automationAccounts/configurations | Migrate |
| Automate-Dev-WEU/AutoStop\_CreateAlert\_Child | defaultresourcegroup-weu-dev | westeurope | Microsoft.Automation/automationAccounts/runbooks | Migrate |
| Automate-Dev-WEU/Stop\_euwvlaaspbid01 | defaultresourcegroup-weu-dev | westeurope | Microsoft.Automation/automationAccounts/runbooks | Delete |
| LogAnalyticWorkspaceRclDev | DefaultResourceGroup-WEU-Dev | westeurope | Microsoft.OperationalInsights/workspaces | Migrate |
| Automate-Dev-WEU/SecurityBaselineConfigurationWS2008R2SP1 | DefaultResourceGroup-WEU-Dev | westeurope | Microsoft.Automation/automationAccounts/configurations | Migrate |
| Automate-Dev-WEU/SecurityBaselineConfigurationWS2012 | DefaultResourceGroup-WEU-Dev | westeurope | Microsoft.Automation/automationAccounts/configurations | Migrate |
| Automate-Dev-WEU/Start\_euwvlaaspbid01 | defaultresourcegroup-weu-dev | westeurope | Microsoft.Automation/automationAccounts/runbooks | Delete |
| ASP-DefaultResourceGroupWEUDev-9fa2 | DefaultResourceGroup-WEU-Dev | westeurope | Microsoft.Web/serverFarms | Migrate |
| rclssasautoscale | DefaultResourceGroup-WEU-Dev | westeurope | microsoft.insights/components | Migrate |
| Failure Anomalies - rclssasautoscale | DefaultResourceGroup-WEU-Dev | global | microsoft.alertsmanagement/smartDetectorAlertRules | Migrate |
| Automate-Dev-WEU/HarryDev\_ScheduledStartStop\_Parent | DefaultResourceGroup-WEU-Dev | westeurope | Microsoft.Automation/automationAccounts/runbooks | Delete |
| CubeQueryFunctionsTest | DefaultResourceGroup-WEU-Dev | westeurope | Microsoft.Web/sites | Migrate |
| Automate-Dev-WEU/AzureAutomationTutorialScript | DefaultResourceGroup-WEU-Dev | westeurope | Microsoft.Automation/automationAccounts/runbooks | Migrate |
| Automate-Dev-WEU/AutoStop\_Disable | defaultresourcegroup-weu-dev | westeurope | Microsoft.Automation/automationAccounts/runbooks | Migrate |
| ScheduledStartStop\_Parent | defaultresourcegroup-weu-dev | westeurope | Microsoft.Insights/scheduledqueryrules | Migrate |
| StartStop\_VM\_Notification | defaultresourcegroup-weu-dev | global | Microsoft.Insights/actiongroups | Migrate |
| Automate-Dev-WEU/ScheduledStartStop\_Base\_Classic | defaultresourcegroup-weu-dev | westeurope | Microsoft.Automation/automationAccounts/runbooks | Migrate |
| Automate-Dev-WEU/ScheduledStartStop\_Child | defaultresourcegroup-weu-dev | westeurope | Microsoft.Automation/automationAccounts/runbooks | Migrate |
| Automate-Dev-WEU/ScheduledStartStop\_Parent | defaultresourcegroup-weu-dev | westeurope | Microsoft.Automation/automationAccounts/runbooks | Migrate |
| Automate-Dev-WEU/ScheduledStartStop\_Child\_Classic | defaultresourcegroup-weu-dev | westeurope | Microsoft.Automation/automationAccounts/runbooks | Migrate |
| Automate-Dev-WEU/AutoStop\_CreateAlert\_Parent | defaultresourcegroup-weu-dev | westeurope | Microsoft.Automation/automationAccounts/runbooks | Migrate |

Table 14: DefaultResourceGroup-WEU-Dev

#### NetworkWatcherRG

Delete the resource group and service

| Name | Resource Group | Region | Resource Type | Action |
| --- | --- | --- | --- | --- |
| NetworkWatcher\_southafricanorth | NetworkWatcherRG | southafricanorth | Microsoft.Network/networkWatchers | Delete |

Table 15: NetworkWatcherRG

#### workspacemanagedrg-82a3d130-e3c5-474d-ba69-a2ce8c71a806

Resource group is empty and excluded from subscription migration.

#### Zanrgrgbaid001

BI components excluded from migration for this project.

#### Zanrgrgbaid002

BI components excluded from migration for this project.

# Phase 2: Migration Execution

This phase will be the actual execution and migration of resources from the source to the target Azure subscription. The migration will be done in waves, starting with the crucial foundations services and moving onto the workloads and supporting environments.

## Target Subscription

The following subscriptions have been identified as the target for the migration:

| Subscription Name | Identified Resource Groups |
| --- | --- |
| MCA PROD (89b4f2f0-5607-48ac-9acc-81f64550dc19) | * AzureBackupRG\_southafricanorth\_1 * cloud-shell-storage-westeurope * Default-ActivityLogAlerts * DefaultResourceGroup-JNB * DefaultResourceGroup-WEU * NetworkWatcherRG * Site-recovery-vault-RG * **zanrgrgldzp001 (Landing zones amalgamated)** |
| MCA DEV (40f464fe-e757-4f8f-bacc-5b173f57b262) | * AzureBackupRG\_southafricanorth\_1 * DefaultResourceGroup-EUS * DefaultResourceGroup-WEU-Dev * NetworkWatcherRG |

Table 16: Target Subscriptions

## Network Infrastructure

The migration also requires a new set of virtual networks, as such creation of new virtual networks is the first step of the migration process:

| IP Range | Division | Site | Type | Description | Target Subscription |
| --- | --- | --- | --- | --- | --- |
| 10.20.40.0/24 | GS | MS Azure-Datacentre | Subnet | MS Azure-Datacentre-RCLFOODS -Tenant | MCA PROD |
| 10.20.41.0/24 | GS | MS Azure-Datacentre | Subnet | MS Azure-Datacentre-RCLFOODS -Tenant | MCA DEV |
| 10.20.42.0/24 | GS | MS Azure-Datacentre | Subnet | MS Azure-Datacentre-RCLFOODS -Tenant | MCA PROD |
| 10.20.43.0/24 | GS | MS Azure-Datacentre | Subnet | MS Azure-Datacentre-RCLFOODS -Tenant | MCA PROD |
| 10.20.44.0/24 | GS | MS Azure-Datacentre | Subnet | MS Azure-Datacentre-RCLFOODS -Tenant | MCA PROD |
| 10.20.45.0/24 | GS | MS Azure-Datacentre | Subnet | MS Azure-Datacentre-RCLFOODS -Tenant | MCA PROD |
| 10.20.46.0/24 | GS | MS Azure-Datacentre | Subnet | MS Azure-Datacentre-RCLFOODS -Tenant | MCA PROD |
| 10.20.47.0/24 | GS | MS Azure-Datacentre | Subnet | MS Azure-Datacentre-RCLFOODS -Tenant | MCA PROD |
| 10.20.48.0/24 | GS | MS Azure-Datacentre | Subnet | MS Azure-Datacentre-RCLFOODS -Tenant | MCA PROD |

Table 17: New Virtual Networks

## Resource Migration Waves

The migration will be done in the following sequential order, each wave comes will be represented as a resource group and will list the activities involved respectively:

### High-level Migration Diagram

Diagram below depicts the migration waves for this project:

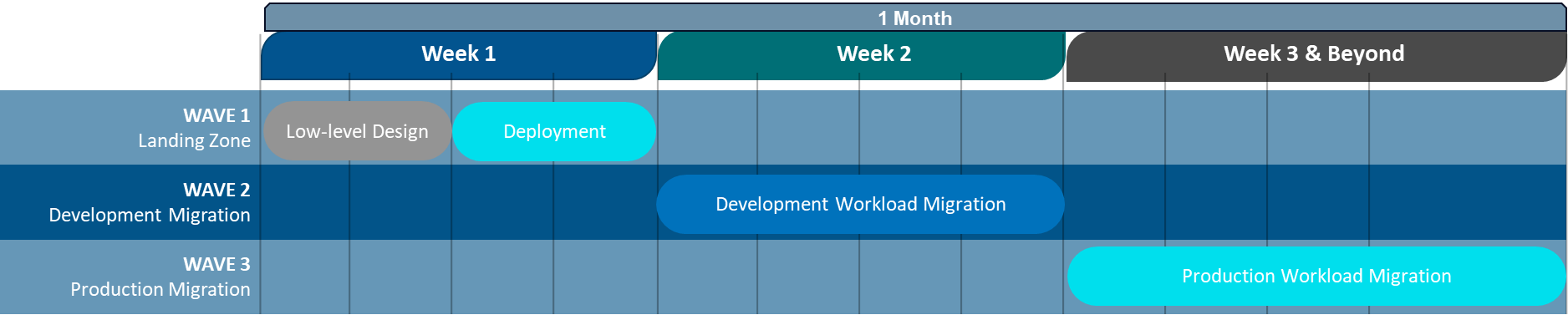


Figure 2: High-level Migration Diagram

### Wave 1: Landing Zone

Following production resource groups will be amalgamated into a new resource group in the MCA PROD subscription in this wave:

* zanrgrgldzp001 (Production Subscription)
* zanrgrgldzp001 (Enterprise MCA - Production)

#### Activities

1. Validate landing zone components and dependencies.
2. Recreate landing zone infrastructure first as it's foundational.
3. Verify connectivity and core services.
4. Perform validation testing of the landing zone.
5. Update DNS and routing configurations after cutover.
6. Cutover of services.

#### Configurations

1. Create new virtual networks with the *10.20.0.0/24* ranges in the landing zone.
2. Expressroute circuit (zanrgercp01) redeployment and bandwidth upgrade from 50 Mbps to 100 Mbps.
3. Activate ExpressRoute link with internet solutions (ISP) team.
4. Azure Firewall (zanrgfwldzp01) SKU deployment and upgrade from Standard to Premium.
5. Azure firewall policy migration and configuration.
6. Application gateway redeployment, configure PIP and DNS changes with BCX.
7. Recreate private DNS zones and private endpoint.

#### Downtime Impact

##### VPN Gateway

Re-creating a VPN Gateway will keep all established VPN tunnels in the existing service.

Downtime will occur during cutover to new gateway and tunnels are re-established and verified.

##### ExpressRoute Gateway

We will create a new ExpressRoute Gateway in the new subscription and link it to the new ExpressRoute circuit.

Applications relying on the ExpressRoute path will experience downtime as on-premises routing shifts traffic from the old VNet to the new Vnet during cutover.

##### Azure Firewall

Azure Firewall deployments in parallel allow for zero-downtime migration since traffic routing can be gradually shifted through route table updates and DNS changes. The new firewall can be fully configured and tested before any traffic cutover, with the ability to route specific subnets or applications incrementally to validate functionality.

##### Application Gateway

Application Gateway deployments similarly support zero-downtime transitions as the new gateway can be deployed with identical backend pools and listeners, allowing traffic to be switched at the DNS or load balancer level. Both services support gradual traffic shifting strategies where you can route a percentage of traffic to validate performance before full cutover.

#### Rollback Strategy

##### VPN Gateway

We will export the configuration of the old VPN Gateway and its connections. If the new gateway fails, we will delete it and re-establish tunnels to the existing old gateway.

##### ExpressRoute Gateway

The existing ExpressRoute Gateway and its VNet connection will remain active until the new setup is fully verified and traffic is successfully flowing through the new gateway. On-premises routing will be reverted to send traffic back to the old ExpressRoute gateway and VNet if a rollback is necessary.

##### Azure Firewall

Rollback involves reverting route table entries and DNS records to point back to the original firewall, which can be accomplished within minutes

##### Application Gateway

Application Gateway rollback requires updating DNS records, load balancer configurations, or frontend routing rules to redirect traffic back to the original gateway.

### Wave 2: Development Environment

Following development resource groups will be migrated in this wave to the MCA DEV subscription

* AzureBackupRG\_southafricanorth\_1
* DefaultResourceGroup-EUS
* DefaultResourceGroup-WEU-Dev
* NetworkWatcherRG

#### Activities

* The supported development Azure services will be moved from a resource group level, one resource group at a time, conducting pre and post validations and checks.
* Restore point collections needs to be recreated as is it does not support migration.

#### Configurations

* Confirm that Automation Accounts execute runbooks and associated configurations are applied. Ensure Log Analytics Workspaces collect data, and linked Solutions are functional.
* Verify that all connected sources are successfully sending logs and telemetry to the moved Log Analytics Workspace.
* Ensure all alert rules (Log Search, Activity, Metric, Smart Detector) are active and that Action Groups successfully deliver notifications.
* Ensure the Recovery Services Vault continues to back up protected items as scheduled and verify basic restore operations are successful for development data.
* Confirm all credentials, connections, and certificates within Automation Accounts are valid and allow runbooks to interact with external services or other Azure resources in the new subscription.

#### Downtime Impact

##### Function App

Management operations are suspended. This includes deployments, configuration changes, and scaling.

##### Automation Account

Running jobs may be interrupted. New jobs will not initiate. Dependencies like schedules or linked Log Analytics workspaces will be temporarily disrupted. Hybrid Runbook Workers will require reconfiguration.

#### Rollback Strategy

Refer to section 5.1. General Rollback Strategy

### Wave 3: Production Environment

Following production resource groups will be migrated in this wave:

* AzureBackupRG\_southafricanorth\_1
* cloud-shell-storage-westeurope
* Default-ActivityLogAlerts
* DefaultResourceGroup-JNB
* DefaultResourceGroup-WEU
* NetworkWatcherRG
* Site-recovery-vault-RG

#### Activities

* The supported production Azure services will be moved from a resource group level, one resource group at a time, conducting pre and post validations and checks.
* Restore point and data collection rules need to be recreated as is it does not support migration.

#### Configurations

* Confirm that Automation Accounts execute runbooks, Log Analytics Workspaces collect data, and associated Solutions are fully functional.
* Ensure all alert rules (Log Search, Activity, Metric, Smart Detector) are active and that Action Groups successfully deliver notifications.
* Update any applications with hardcoded connection strings or SAS tokens to Azure Storage and confirm that network rules or private endpoints are correctly functioning.
* Ensure the Recovery Services Vault continues to back up protected items as scheduled and verify restore operations are successful.
* Confirm all credentials, connections, and certificates within Automation Accounts are valid and allow runbooks to interact with their target resources.

#### Downtime Impact

##### Storage Account

Existing data access remains largely unaffected. Management operations are suspended. Applications or services with hardcoded connection strings may require updates.

##### Automation Account

Running jobs may be interrupted. New jobs will not initiate. Dependencies like schedules or linked Log Analytics workspaces will be temporarily disrupted.

##### Recovery Services Vault

Backup and replication jobs are paused or interrupted. New backups or replication cycles will not start until the migration is complete.

Protected items will require re-registration.

#### Rollback Strategy

Refer to section 5.1. General Rollback Strategy

# Rollback Strategy & Downtime

To ensure the subscription migration is seamless and business disruption is minimised, this section outlines the rollback and downtime strategies.

## General Rollback Strategy

### Source Environment Preservation

All original resources in the source subscription will be retained and remain active throughout the migration process. This fully functional environment serves as the primary and immediate fallback in the event of any issues in the new subscription.

### Azure Resource Mover Reversion

Should a complication arise during the migration's preparation or "Initiate move" phases, we will execute Azure Resource Mover's "Discard" or "Remove" function. This action will immediately revert the move process, ensuring the source resources are untouched and instantly available.

### Controlled Cutover and Validation

Following the successful move of resources to the new subscription, a thorough validation phase will commence. All critical application and infrastructure functionalities will be rigorously tested and confirmed before any final steps are taken to decommission the old environment.

### Endpoint Reversion

If a critical issue is identified after resources have been successfully moved and committed to the new subscription, external DNS records or internal service endpoints will be immediately reverted. This action will re-direct traffic and operations back to the original, verified environment in the source subscription.

### Data Consistency Measures

For services involving data, the rollback plan incorporates measures to ensure data consistency. This may involve resuming data synchronization to the old environment or utilizing pre-migration backups to restore data to its original state.

### Decommissioning of New Resources

In the event of a full rollback, all partially or fully migrated resources in the new subscription will be systematically decommissioned to prevent any orphaned or conflicting deployments.

## Azure Resource Migration Analysis

The table below evaluates each of the resource types that are in scope for this migration project against the following:

* **Expected Downtime**: The anticipated period during which the resource or service will be unavailable during migration. This ranges from "None" (for resources that can be moved without interruption) to several hours (for resources requiring complete recreation). The downtime estimate considers the technical migration process, validation time, and potential troubleshooting.
* **Potential Impact**: The effect the migration will have on workloads, dependent services, and overall system operations. This describes what users or systems might experience during the migration window, such as connectivity disruptions, temporary loss of monitoring capabilities, or service access interruptions.
* **Rollback Strategy**: The recommended approach to restore the original state if the migration is unsuccessful or needs to be reversed. This includes the technical steps required to revert changes, any dependencies that must be considered, and limitations of the rollback process (such as inability to recover exact IP addresses or timing constraints).

These three factors combined help prioritise resource migration planning, schedule appropriate maintenance windows, and prepare contingency measures.

| Resource Type | Expected Downtime | Potential Impact | Rollback Strategy |
| --- | --- | --- | --- |
| Microsoft.Network/virtualNetworkGateways | 1-4 hours | Service disruption for all dependent VPN/Express connections | Keep source gateway until validation; requires new public IP addresses |
| Microsoft.Network/networkIntentPolicies | None | No operational impact | Export and reimport policy definitions |
| Microsoft.Network/publicIPAddresses | None - Minimal | Brief connectivity disruption for dependent services | Cannot recover same IP; use DNS strategies |
| Microsoft.Network/connections | 30-60 minutes | Connection outage for specific link | Document settings and recreate in original subscription |
| Microsoft.Network/routeTables | None - Minimal | Temporary routing inconsistency | Export route definitions and reimport |
| Microsoft.Network/networkSecurityGroups | None - Minimal | Brief security enforcement gap | ARM templates to recreate exact configuration |
| Microsoft.KeyVault/vaults | None | Application access to secrets may be interrupted | Soft-delete recovery if within retention period |
| Microsoft.Storage/storageAccounts | None | Minimal impact with proper planning | Use storage replication features for rollback |
| Microsoft.Network/expressRouteCircuits | 2-8 hours | Complete network path outage | Requires provider coordination; new service key needed |
| Microsoft.Compute/restorePointCollections | None | No direct operational impact | Export collection details before migration |
| Microsoft.Network/networkWatchers | None | Temporary monitoring gap | Reconfigure in original subscription |
| Microsoft.Insights/scheduledqueryrules | None | Alert monitoring gap | Export definitions and reapply |
| Microsoft.OperationalInsights/workspaces | None | Temporary analytics capability loss | Reconfigure workspace settings and connections |
| Microsoft.RecoveryServices/vaults | None | Brief protection policy gap | Reattach protected items to original vault |
| Microsoft.Sql/servers/databases | 30-90 minutes | Database service outage | Restore from geo-replicated backup or export |
| Microsoft.Insights/dataCollectionRules | None | Temporary data collection interruption | Export and reapply rule configurations |
| Microsoft.Automation/automationAccounts | None | Scheduled automation jobs may be delayed | Export runbooks and configurations before migration |
| Microsoft.Automation/automationAccounts/runbooks | None | Scheduled runbooks may not execute during migration | Export runbooks and configurations |
| Microsoft.Automation/automationAccounts/configurations | None | DSC state enforcement gap | Export configurations and reimport |
| Microsoft.OperationsManagement/solutions | None | Management solution insights temporarily unavailable | Reconnect solution to workspace |
| microsoft.insights/metricalerts | None | Alert monitoring gap | Export alert rules and reapply |
| microsoft.insights/activityLogAlerts | None | Activity monitoring gap | Export alert configurations and recreate |

Table 18: Azure Resource Migration Analysis

# Decommissioning

Following a successful migration, comprehensive validation, and thorough testing, we will proceed to identify and decommission any duplicate or unused resources via a delete operation. This ensures a streamlined and cost-effective Azure environment in the new subscription(s).

# Migration Plan Acceptance

Having carefully reviewed the proposed High-level migration plan document (Version 1.0), **RCL Foods** hereby acknowledge and fully accept the outlined strategy, timelines, and responsibilities for the migration of the Azure resources. This acceptance signifies our agreement to proceed with the migration as detailed herein.

|  |
| --- |
| RCL Foods Representative |
|  |
| **Signature** |
|  |
| **Print Name and Title** |
|  |
| **Date** |