Design for ECA Migration to Azure

For Electrical Contractors Association

Commercial in Confidence

**Version –** 0.11

**Issue -** Released

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**Date -** 11/07/2019

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# Document Control

## Authority

|  |  |  |  |  |
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## Identity

|  |  |
| --- | --- |
| Issue Type | Released |
| Date Issued | 11/07/2018 |
| Title | Design for ECA Migration to Azure |
| File Name | Design for ECA Migration to Azure |

## Revision History

|  |  |  |  |
| --- | --- | --- | --- |
| Version | Date | Status | Comment |
| 0.10 | 11/07/2018 | Draft | Issued |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

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|  |  | | |

# Document Conventions

Each section in the document will contain a table such as the following, explaining why we made our recommendations. This is followed by general information about the subject to ensure you understood our thinking.

|  |  |
| --- | --- |
|  | Design Decision  This symbol indicates a design decision has been made and what it is. The following text will also provide the rationale regarding that decision. |

|  |  |
| --- | --- |
|  | Design Decision TBC  This symbol indicates a design decision has yet to be confirmed |

|  |  |
| --- | --- |
|  | Important Information Follows  This symbol indicates that valuable information will follow, and special note should be taken. This might be a pre-requisite that is required for the design component. |

|  |  |
| --- | --- |
|  | **Ultima Recommendation**  Ultima recommends that you use X technology to fulfil this requirement |
| **Why we made this recommendation for your environment**  We made this decision based on your requirement for X. This is fulfilled by this in the following way… |
|  | **Why we discounted other solutions**  Alternative solution X was discounted because… |
|  | **Alternatives we didn’t discount**  Although not a direct recommendation, the following solutions would also meet your requirements. Our overall recommendation considers the whole environment for the most efficient solution. Some of these may meet this specific need better but be worse overall.  Solution 1 – This solution would meet needs better here but is less efficient overall…  Solution 2 – This solution would also meet this need but not others in the environment and so would be a point solution |

## Glossary of Terms

We may use the following terms in this document and will not explain them each time so have included them here for your reference.

|  |  |  |  |
| --- | --- | --- | --- |
| Term | Description | Term | Description |
| PaaS | Platform as a Service | IaaS | Infrastructure as a Service |
| SaaS | Software as a Service | HA | Highly Available |
| Scale Up | Increase the size of nodes to increase scale | Scale Out | Add nodes to increase scale |
| IoT | Internet of Things | VM | Virtual Machine |

# Introduction

## Summary

The section below provides a high level, baselined version of the requirement as provided by the Client.

Electrical Contractors Association (ECA) have traditionally been a ‘working hours’ organisation. Due to recent technical and operational issues encountered, consideration of a resilient cloud adoption with 24/7 management has been accelerated. ECA host several internally and externally facing line of business websites and applications with shared SQL backends. ECA are particularly interested in re-working these sites and applications to utilise Azure’s PaaS offerings.

### Azure Products

The items below describe the near term or long-term Azure replacements.

|  |  |
| --- | --- |
|  | Decision  Public facing web apps should be in a separate resource group from internal web apps.  Public facing web apps should be in a App Plan from internal web apps. App plans may be shared across web apps for cost savings |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Product | Name | Azure Type |  |
|  | Resource Group | eca-rg-internal-(dev/uat/prod) | Resource Group |  |
|  | App Plan | eca-app-plan-internal-(dev/uat/prod)-01 | App Plan | Standard S3 (4Core 7GB RAM) |
|  | App Insites | eca-app-insites-internal-(dev/uat/prod)-01 |  |  |
|  | ECA Connect | eca-web-app-internal-connect-(dev/uat/prod)-01 | Web App | Shared S3 |
|  | ECS Card | eca-web-app-internal-card-(dev/uat/prod)-01 | Web App | Shared S3 |
|  | Financial | eca-web-app-internal-financial-(dev/uat/prod)-01 | Web App | Shared S3 |
|  | SQL Azure Server | eca-sql-azure-srv-internal-(dev/uat/prod)-01 | SQL Azure Server |  |
|  | SQL Azure Database | eca-sql-azure-db-internal-xx-(dev/uat/prod)-01 | SQL Azure Database |  |
|  | SSRS |  | VM | 4 |
|  | Watchdog |  | Logic App or App Service based | 4? |
|  |  |  |  |  |
|  | Resource Group | eca-rg-external-(dev/uat/prod) | Resource Group |  |
|  | App Plan | eca-app-plan-external-(dev/uat/prod)-01 | App Plan | S3 (4Core 7GB RAM) |
|  | App Insites | eca-app-insites-external-(dev/uat/prod)-01 |  |  |
|  | Eca.co.uk | eca-kentico-eca-external-(dev/uat/prod)-01 | Web App/ Kentico 11 | Shared S3 |
|  | Ecscard.org.uk | eca-kentico-eca-card-(dev/uat/prod)-01 | Web App/ Kentico 11 | Shared S3 |
|  | Ecsexams.org.uk??? |  |  |  |
|  | SQL Azure Server | eca-sql-azure-srv-external-(dev/uat/prod)-01 | SQL Azure Server |  |
|  | SQL Azure Database | eca-sql-azure-db-external-xx-(dev/uat/prod)-01 | SQL Azure Database |  |