



# Application Cloud Readiness Assessment Report

Tuesday September 15 2020

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# Table of Contents

Goals	3
Portfolio Completion	4
Portfolio Transition Types	6
Portfolio Current Environments	7
Portfolio Target Cloud Environments	8
Portfolio Memory Consumption	9
Portfolio Storage Consumption	10
ABCya!	11
Alexa website	13
Ancestry website	16
Capital Safety	19
Cheddar (TV Channel)	22
EasyBib website	24
Internet Archive	26
Japan Airlines	28
Kijiji	30
Massachusetts Institute of Technology (MIT)	32
Starry Internet	34
The Irish Times	36
Thesaurus website	38
Tom's Guide	40
Trusted Reviews	42

# Goals

---

"Our business revolves around our customers. In order to respond to our customers needs more quickly, we must transform the way we deliver services. Embracing cloud-native technologies for our various line of business applications will enable the level of transformation our customers deserve."  
-Daffy Duck, CIO"

**Project Sponsor:** None

**Target Cloud Providers:** Google Cloud, Azure

## Timeline and Financials

---

**Duration:** 2020-08-06 to 2023-08-06

**Applications in scope:** 58

**Budget:** \$300000000.0

**Savings Goal:** \$400000000.0

## Focus

---

- Our primary focus is reduce recurring operating costs
- A secondary focus is business agility and time to deliver services
- We're looking to upgrade operating systems and middleware

# Portfolio Completion

---

This report includes a summary of 15 applications from the total portfolio of 58 applications. The recommendations and analysis that follow are based on the portfolio data completion rates below:

## Completed transition plans

5 of 15

33 %

## Source Code Analyzed

10 of 15

67 %

# Rankings

---

## Recommended Migration Order

1. Tom's Guide
2. Capital Safety
3. Japan Airlines

## Application Migration Difficulty

### Easiest

1. Tom's Guide
2. Alexa website
3. Capital Safety

### Hardest

1. Ancestry website
2. Massachusetts Institute of Technology (MIT)
3. Thesaurus website

## Business Value

### Highest

1. Capital Safety
2. Japan Airlines
3. Thesaurus website

### Lowest

1. Trusted Reviews
2. Ancestry website
3. Kijiji

# Portfolio Transition Types

Refactor Replatform Repurchase Rehost

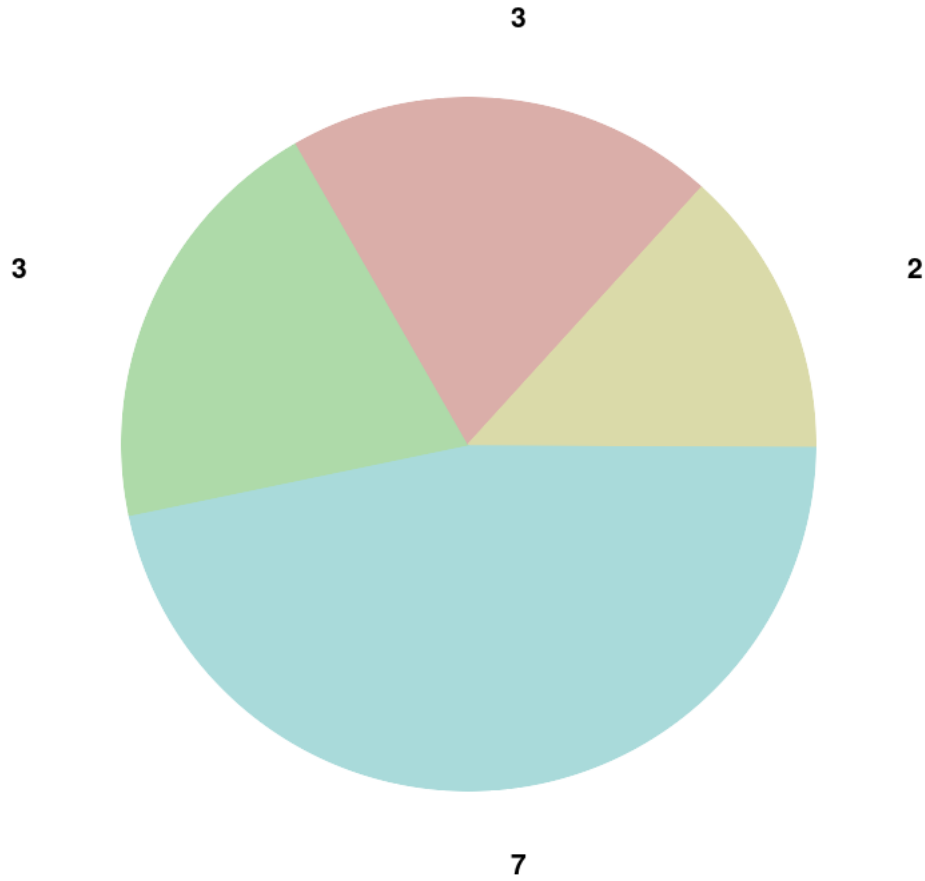


Figure 1. Categorization of 15 applications based on their planned transition types.

## Application Current Environments

Test Development Production

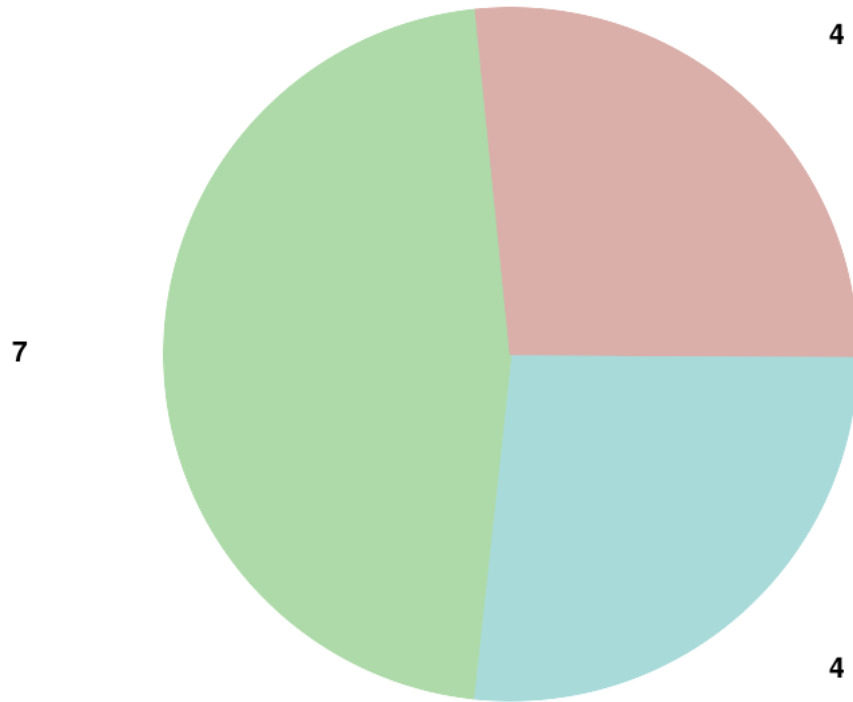
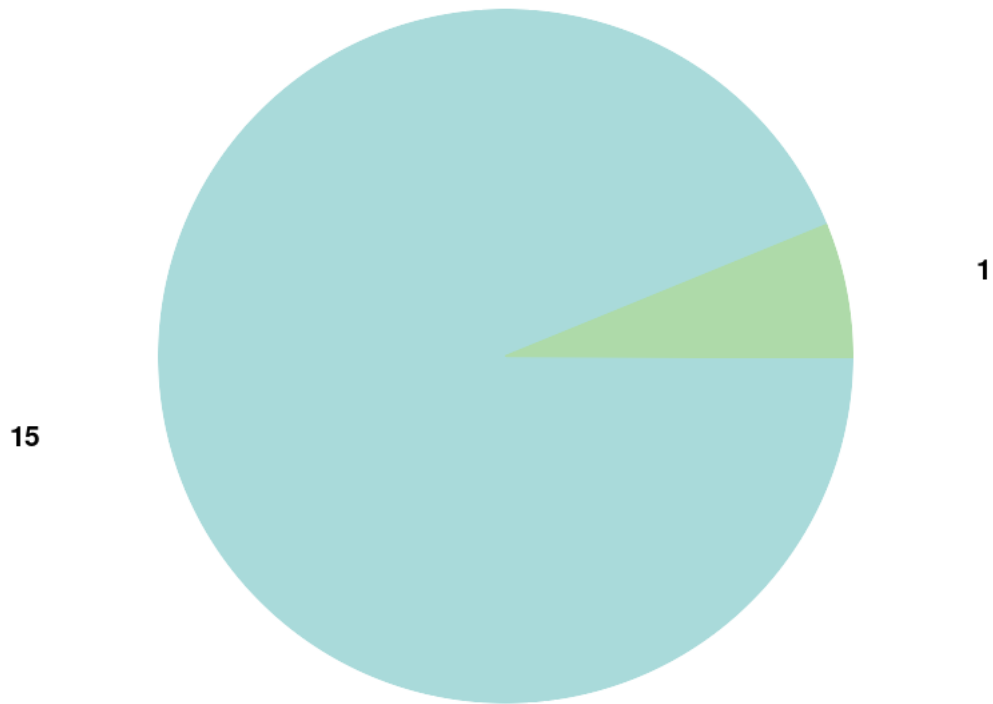


Figure 2. Categorization of 15 applications based on their current environments.

## Application Target Clouds

Azure Google Cloud



*Figure 3. Categorization of 15 applications based on their target clouds. Note that each application could have more than 1 target cloud, so the total number shown is not necessarily the total number of applications.*



# Memory Consumption

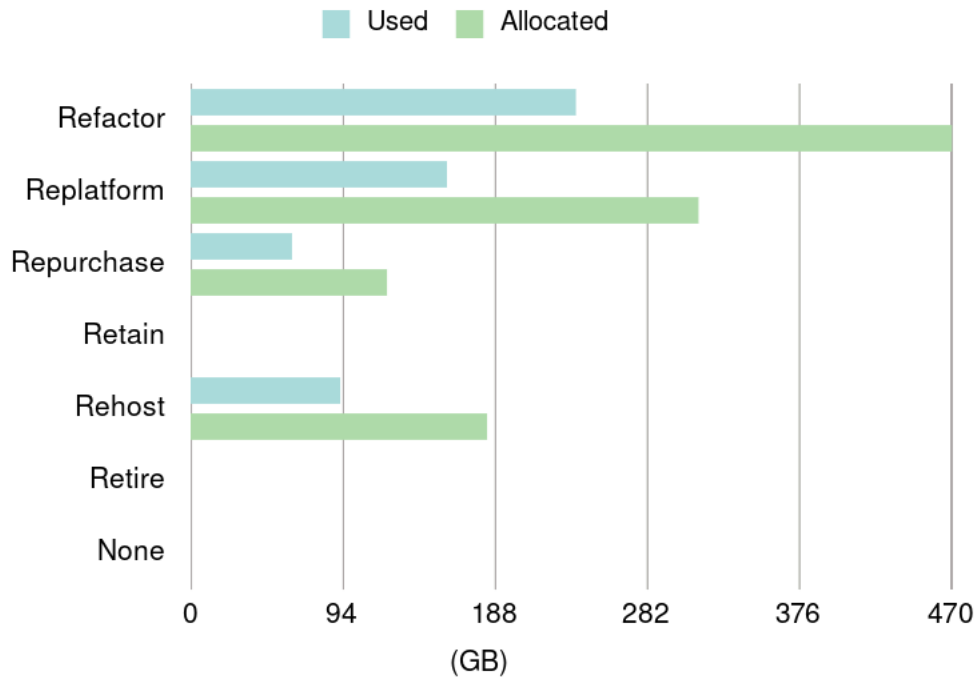


Figure 4. Memory consumption for application's (15) servers categorized by applications transition types.

# Storage Consumption

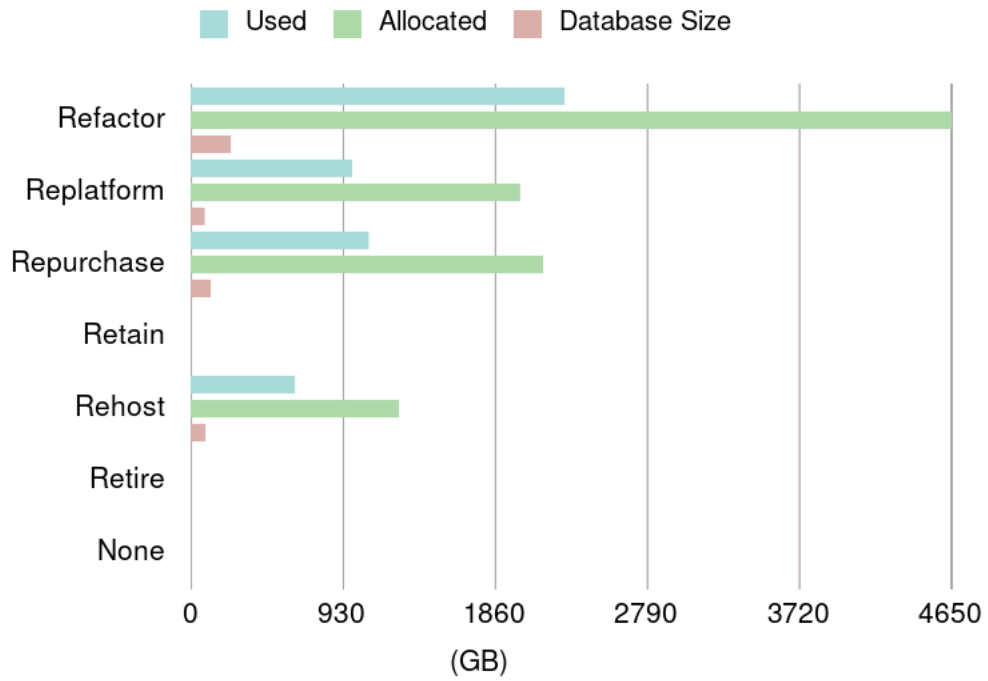


Figure 5. Storage consumption for application's (15) servers and database instances categorized by applications transition types.

# ABCya! [↗](#)

<http://www.Abcya.com>

**Environment:** Test

A website that provides educational games and activities for school-aged children

## Transition Plan

**Transition Type:** Refactor

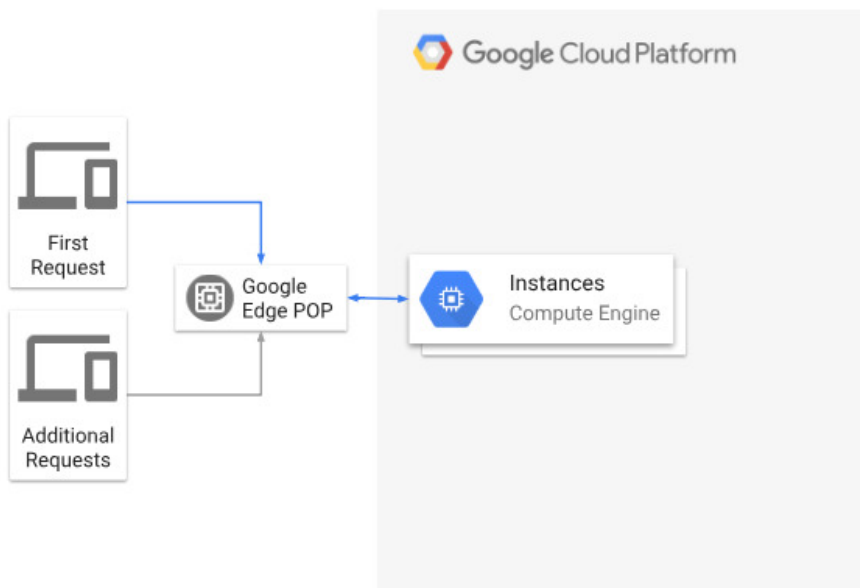
**Migration Wave:** Move Group - 2019-05-10

**Target Clouds:** Azure, Google Cloud

**Transition Plan Complete:** false

## Transition Overview

From a security perspective, this would be best served by s3 with one-time use URLs, generated for authorized users only



## Service Management

**Customers:** Eldridge Emard

**Owner:** Isabelle Rutherford

**Technical Contact:** Kolby Greenholt

**Dependencies:** Not specified

## Technology Stack

---

**Layer 3 Networking Only:** No

**No Hardcoded Ips:** No

**Web Technologies Only:** No

**Paas Supported Database:** No

**Has Dockerfile:** Yes

## Source Code Readiness

---

### Source Code Location

- D:\Windows\System32\Abcya\applications\web\_apps\Abcya\_application
- git@github.com:Abcya/Abcya-app.git

**Migration Difficulty:** Medium - 45.58%

**Roadblocks:** 50

## Servers

---

- abcyaiproddb1
- abcyaiproddb2
- abcyaiprodb4
- abcyaiproxy4
- abcyaiproapp4
- abcyaiproadb0

## Databases

---

- Abcya Product database

# Alexa website [↗](#)

<https://www.alex.com/>, <http://www.alex.com>

**Environment:** Test

Provides commercial web traffic data and analytics

## Transition Plan

**Transition Type:** Replatform

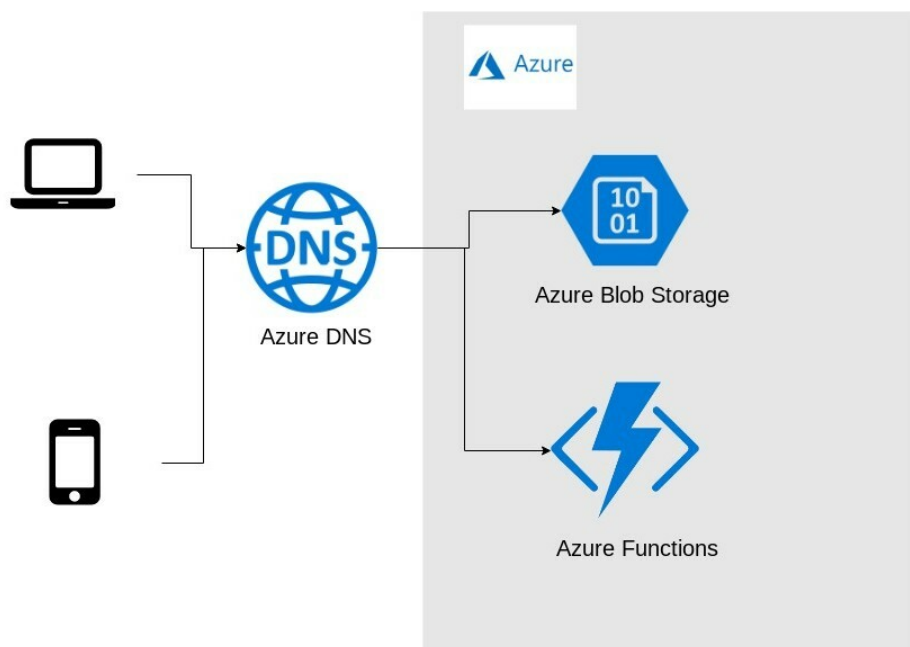
**Migration Wave:** Move Group - 2019-03-08

**Target Clouds:** Azure

**Transition Plan Complete:** false

## Transition Overview

A good candidate for an object store. Recommend re-platforming to AWS S3, Google Cloud Storage, or Azure Blob storage, with short-lived/one-time-use URLs which are generated for authenticated and authorized users.



## Service Management

**Customers:** Marlee Labadie PhD

**Owner:** Daren McGlynn Jr.

**Technical Contact:** Roslyn Marks

**Dependencies:** Not specified

## Technology Stack

---

**Layer 3 Networking Only:** Yes

**No Hardcoded Ips:** Yes

**Web Technologies Only:** Yes

**Paas Supported Database:** No

**Has Dockerfile:** No

## Technologies

---

- Express
- Bootstrap
- Amazon Cloudfront
- Underscore.js
- jQuery
- jQuery UI
- Handlebars
- Google Tag Manager
- Nginx
- Google Font API

## Source Code Readiness

---

### Source Code Location

- G:\Windows\System32\alexa\applications\web\_apps\alexa\_application
- git@github.com:alexa/alexa-app.git

**Migration Difficulty:** Easy - 83.8%

**Roadblocks:** 12

## Servers

---

- alexaweb4
- alexaproxy3

- alexaapp5
- alexadb5

## Network Devices

---

13.225.198.70  
13.225.198.96  
13.225.198.49  
13.225.198.61

## Databases

---

- Alexa App database

## Ancestry website

---

<http://www.ancestry.com>, <https://www.ancestry.com/>

**Environment:** Development

largest for-profit genealogy company, which operates a network of genealogical, historical record and genetic genealogy websites

## Transition Plan

---

**Transition Type:** Replatform

**Migration Wave:** Move Group - 2018-12-19

**Target Clouds:** Azure

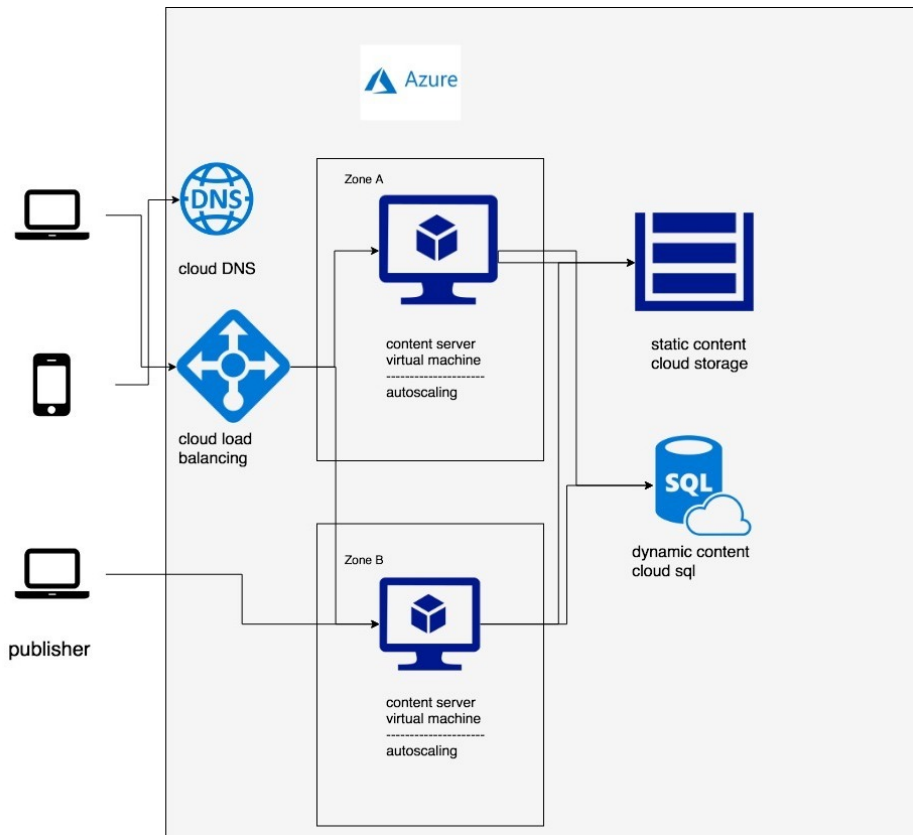
**Transition Plan Complete:** false

## Transition Overview

---

The Angular front-end could be migrated to an object store (S3, or Blob Store), with the API being Rehosted on the core public-facing IIS server scale set. The build pipeline for the Angular app could be automated to deploy continuously to the object store, with cache invalidations on each deploy.





## Service Management

**Customers:** Clementina Toy

**Owner:** Precious Yost

**Technical Contact:** Zack Terry

**Dependencies:** Not specified

## Technology Stack

**Layer 3 Networking Only:** Yes

**No Hardcoded Ips:** Yes

**Web Technologies Only:** Yes

**Paas Supported Database:** No

**Has Dockerfile:** Yes

## Technologies

- Incapsula
- Nginx

## Source Code Readiness

---

### Source Code Location

- /usr/bin/ancestry/shared/applications/web\_apps/ancestry\_application
- git@github.com:ancestry/ancestry-app.git

**Migration Difficulty:** Hard - 28.33%

**Roadblocks:** 67

## Servers

---

- ancestryweb4
- ancestryproxy1
- ancestryapp0
- ancestrydb4

## Network Devices

---

45.60.108.104

## Databases

---

- Ancestry App database

# Capital Safety [↗](#)

---

<http://www.Capitalsafety.com>

**Environment:** Development

Capital Safety is a manufacturer of fall protection, confined space, and rescue equipment for oil and gas, construction, utilities, wind energy, transportation, telecommunication, mining, and general industries

## Transition Plan

---

**Transition Type:** Refactor

**Migration Wave:** Move Group - 2018-06-17

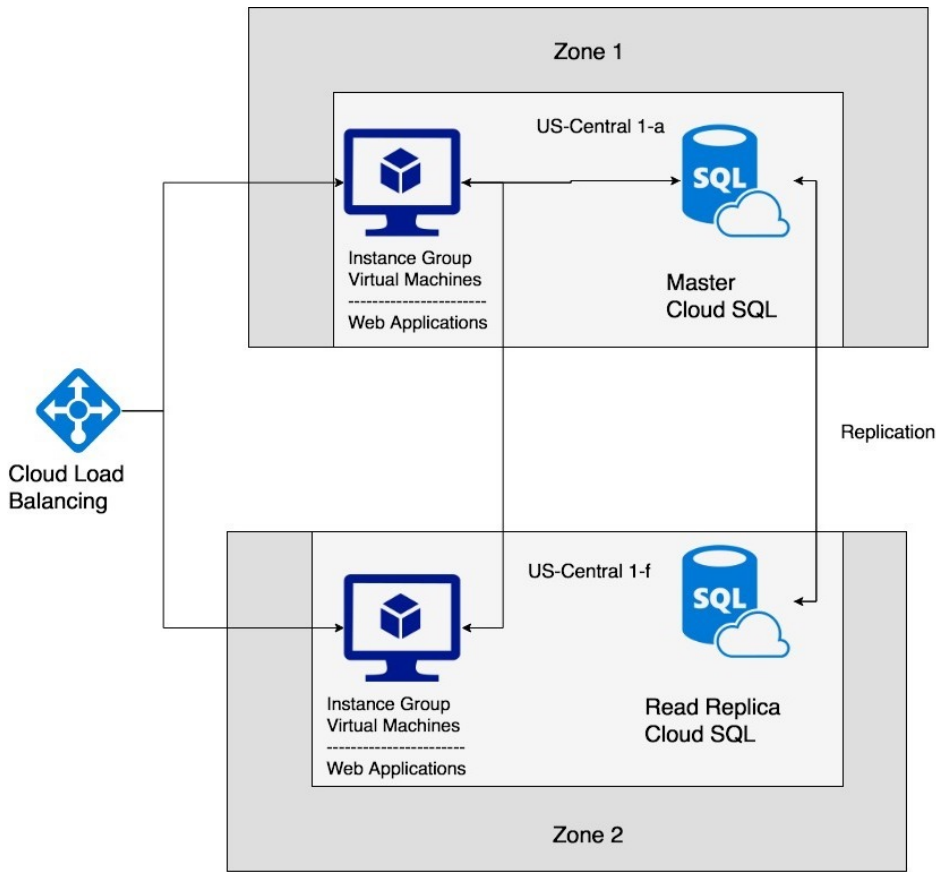
**Target Clouds:** Azure

**Transition Plan Complete:** false

## Transition Overview

---

This should be an S3 bucket served by CloudFront, or similar. Requires some refactoring of existing applications.



## Service Management

**Customers:** Ms. Sidney Hirthe

**Owner:** Marlon Jakubowski MD

**Technical Contact:** Autumn Krajcik

**Dependencies:** Not specified

## Technology Stack

**Layer 3 Networking Only:** No

**No Hardcoded Ips:** No

**Web Technologies Only:** No

**Paas Supported Database:** Yes

**Has Dockerfile:** No

## Source Code Readiness

**Source Code Location**

- /usr/bin/Capitalsafety/shared/applications/web\_apps/Capitalsafety\_application
- git@github.com:Capitalsafety/Capitalsafety-app.git

**Migration Difficulty:** Easy - 73.54%

**Roadblocks:** 22

## Servers

---

- capitalweb1
- capitalproxy3
- capitalapp0
- capitaldb4

## Databases

---

- Capitalsafety Product database

# Cheddar (TV Channel) [↗](#)

---

<http://www.cheddar.com>, <https://www.cheddar.com/>, <http://cheddar.com/>, <https://cheddar.com/>

**Environment:** Production

Cheddar is a live streaming financial news network founded by Jon Steinberg in the United States

## Transition Plan

---

**Transition Type:** Repurchase

**Migration Wave:** Move Group - 2019-05-10

**Target Clouds:** Azure

**Transition Plan Complete:** true

## Transition Overview

---

Wordpress provided a good base for this site to be developed on initially, however given the support costs associated with maintaining a wordpress site securely and the disbanded development project team, we recommend this moves to squarespace.com as a Repurchase transition type.

## Service Management

---

**Customers:** Alize Jenkins

**Owner:** John Steinberg

**Technical Contact:** Gracie Cummerata PhD

**Dependencies:** Not specified

## Technology Stack

---

**Layer 3 Networking Only:** Yes

**No Hardcoded Ips:** No

**Web Technologies Only:** No

**Paas Supported Database:** Yes

**Has Dockerfile:** No

## Technologies

---

- Express
- React
- Google Tag Manager
- Google Font API

## Source Code Readiness

---

### Servers

---

- cheddarweb1
- cheddarproxy3
- cheddarapp0
- cheddardb4

### Network Devices

---

107.21.21.51  
3.213.241.84  
52.44.185.35

### Databases

---

- Cheddar Product database

## EasyBib website [↗](#)

---

<http://www.Easybib.com>

**Environment:** Test

Automatic works cited and bibliography formatting for MLA, APA and Chicago/Turabian citation styles

## Transition Plan

---

**Transition Type:** Repurchase

**Migration Wave:** Move Group - 2018-07-03

**Target Clouds:** Azure

**Transition Plan Complete:** false

## Transition Overview

---

Wordpress provided a good base for this site to be developed on initially, however given the support costs associated with maintaining a wordpress site securely and the disbanded development project team, we recommend this moves to squarespace.com as a Repurchase transition type.

## Service Management

---

**Customers:** Kelton Fay

**Owner:** Marcia Schiller DDS

**Technical Contact:** Maurine Kozey

**Dependencies:** Google AJAX Language API

## Technology Stack

---

**Layer 3 Networking Only:** Yes

**No Hardcoded Ips:** No

**Web Technologies Only:** No

**Paas Supported Database:** Yes

**Has Dockerfile:** Yes

## Source Code Readiness

---



## Servers

---

- easybibweb1
- easybibproxy5
- easybibapp1
- easybibdb5

## Databases

---

- Easybib Product database

# Internet Archive [↗](#)

<http://www.Archive.org>

**Environment:** Development

The Internet Archive is a San Francisco–based nonprofit digital library with the stated mission of "universal access to all knowledge."

## Transition Plan

**Transition Type:** Refactor

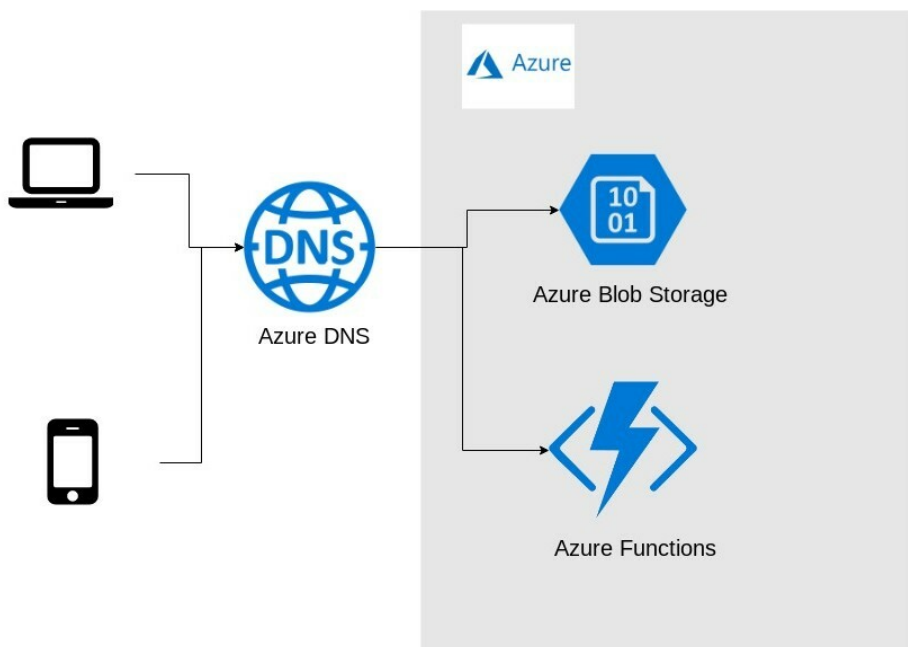
**Migration Wave:** Move Group - 2018-07-03

**Target Clouds:** Azure

**Transition Plan Complete:** false

## Transition Overview

Suggest refactoring public website to a serverless (e.g. CloudFront + s3) static site, separating explicitly the public (Lowrisk) data from the private sharepoint site that requires login if this has not yet been completed. The other highlight for refactoring the public facing website is that it is the first sign of a modernization initiative and likely to help building momentum that change is possible.



## Service Management

---

**Customers:** Silas Harvey IV

**Owner:** Marcelino Kihn

**Technical Contact:** Malcolm Lueilwitz II

**Dependencies:** Not specified

## Technology Stack

---

**Layer 3 Networking Only:** No

**No Hardcoded Ips:** Yes

**Web Technologies Only:** Yes

**Paas Supported Database:** No

**Has Dockerfile:** Yes

## Source Code Readiness

---

### Source Code Location

- D:\Windows\System32\Archive\applications\web\_apps\Archive\_application
- git@github.com:Archive/Archive-app.git

**Migration Difficulty:** Easy - 68.05%

**Roadblocks:** 27

## Servers

---

- archiveweb2
- archiveproxy5
- archiveapp2
- archivedb4

## Databases

---

- Archive Product database

# Japan Airlines

<http://www.jal.co.jp>

**Environment:** Production

The flag carrier airline of Japan and the second largest in the country behind All Nippon Airways

## Transition Plan

**Transition Type:** Refactor

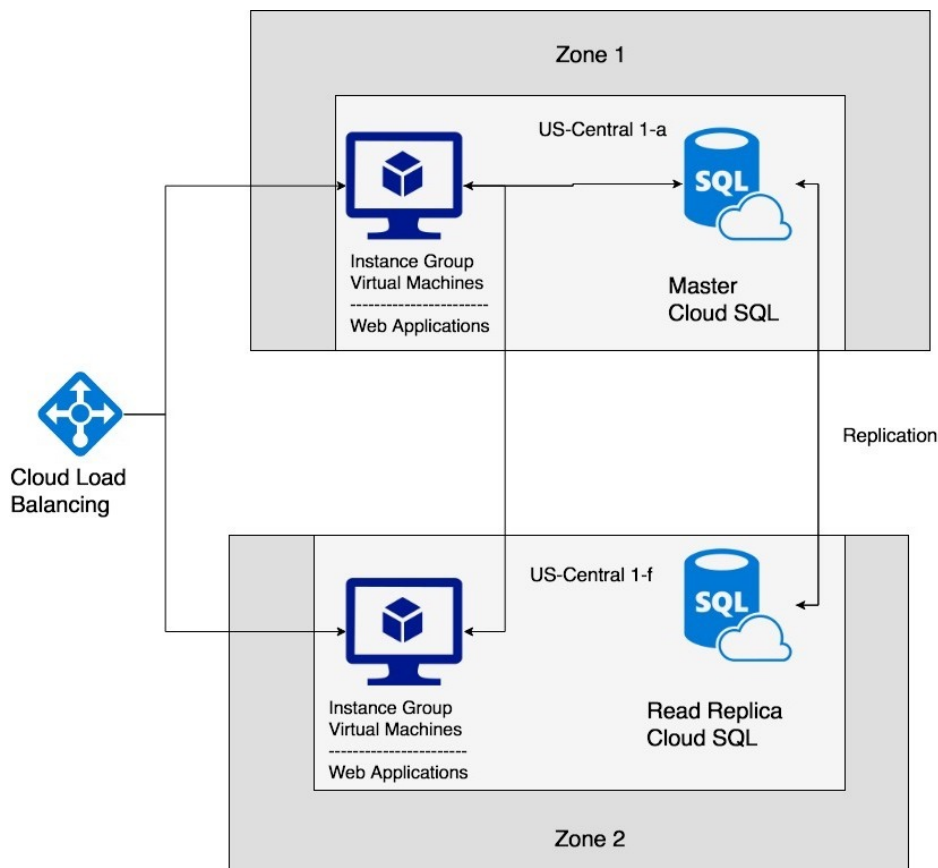
**Migration Wave:** Move Group - 2018-07-03

**Target Clouds:** Azure

**Transition Plan Complete:** false

## Transition Overview

Opportunity to refactor this to use cloud native services like S3, and drop any file-share technology that is currently used internally on web servers to have one common set of web assets per site.



## Service Management

---

**Customers:** Ms. Haylie Volkman

**Owner:** Olen Jacobi III

**Technical Contact:** Eugene Botsford DDS

**Dependencies:** Not specified

## Technology Stack

---

**Layer 3 Networking Only:** Yes

**No Hardcoded Ips:** Yes

**Web Technologies Only:** No

**Paas Supported Database:** No

**Has Dockerfile:** Yes

## Source Code Readiness

---

### Source Code Location

- G:\Windows\System32\Jal\applications\web\_apps\Jal\_application
- git@github.com:Jal/Jal-app.git

**Migration Difficulty:** Easy - 79.79%

**Roadblocks:** 16

## Servers

---

- jalweb0
- jalproxy0
- jalapp4
- jaldb5

## Databases

---

- Jal Account database



<http://www.kijiji.ca>, <https://www.kijiji.ca/>

**Environment:** Development

An online classified advertising service that operates as a centralized network of online communities

---

## Transition Plan

**Transition Type:** Repurchase

**Migration Wave:** Move Group - 2019-05-10

**Target Clouds:** Azure

**Transition Plan Complete:** false

---

## Transition Overview

Wordpress provided a good base for this site to be developed on initially, however given the support costs associated with maintaining a wordpress site securely and the disbanded development project team, we recommend this moves to squarespace.com as a Repurchase transition type.

---

## Service Management

**Customers:** Else Hoppe

**Owner:** Madonna Hills

**Technical Contact:** Isobel Orn

**Dependencies:** Not specified

---

## Technology Stack

**Layer 3 Networking Only:** No

**No Hardcoded Ips:** Yes

**Web Technologies Only:** No

**Paas Supported Database:** No

**Has Dockerfile:** Yes

---

## Technologies

- Bootstrap
- Optimizely
- Google Tag Manager
- Google Cloud

## Source Code Readiness

---

### Servers

---

- kijjiweb5
- kijjiproxy2
- kijjiapp2
- kijjidb0

### Network Devices

---

34.98.91.248

### Databases

---

- Kijji Account database

# Massachusetts Institute of Technology (MIT) [↗](#)

<http://www.Mit.edu>

**Environment:** Development

A private research university in Cambridge, Massachusetts, United States

## Transition Plan

**Transition Type:** Replatform

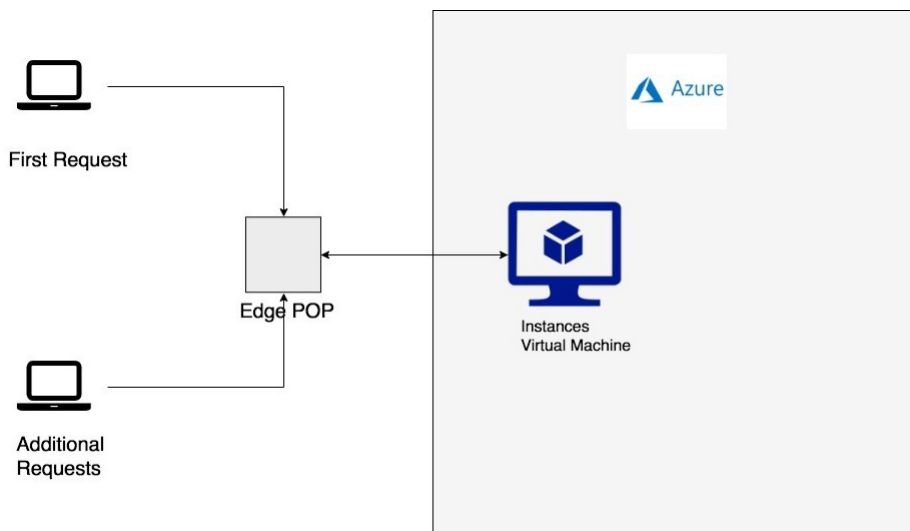
**Migration Wave:** Move Group - 2018-12-19

**Target Clouds:** Azure

**Transition Plan Complete:** true

## Transition Overview

This application can be consolidated with the others to one internal-facing IIS server scale set.



## Service Management

**Customers:** Seamus Fay DDS

**Owner:** Elizabeth Konopelski

**Technical Contact:** Queen Sauer

**Dependencies:** Not specified



## Technology Stack

---

**Layer 3 Networking Only:** Yes

**No Hardcoded Ips:** No

**Web Technologies Only:** No

**Paas Supported Database:** No

**Has Dockerfile:** No

## Source Code Readiness

---

### Source Code Location

- /usr/bin/Mit/shared/applications/web\_apps/Mit\_application
- git@github.com:Mit/Mit-app.git

**Migration Difficulty:** Medium - 55.9%

**Roadblocks:** 40

## Servers

---

- mitweb4
- mitproxy4
- mitapp3
- mitdb1

## Databases

---

- Mit App database

# Starry Internet [↗](#)

<http://www.starry.com>, <https://starry.com/>

**Environment:** Production

A fixed wireless broadband Internet service provider (ISP or WISP) operated by Starry, Inc.

## Transition Plan

**Transition Type:** Rehost

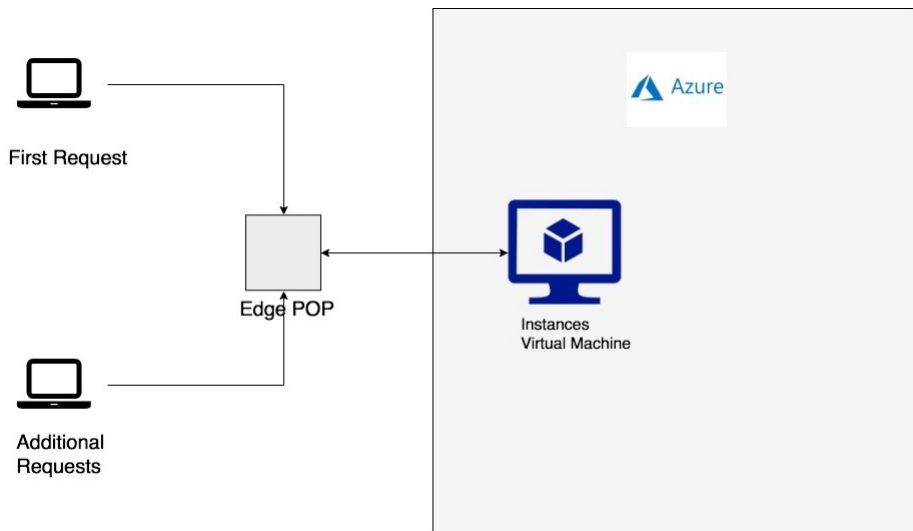
**Migration Wave:** Move Group - 2018-12-19

**Target Clouds:** Azure

**Transition Plan Complete:** false

## Transition Overview

Not enough is known about this application's software dependencies, its configuration or its alternatives. It's also marked as EOL by the business in Dec 2020. Recommend a lift-and-shift migration until more options can be explored, particularly around the viability of the SaaS alternatives.



## Service Management

**Customers:** Callie Deckow

**Owner:** Annamae Wolf

**Technical Contact:** Heather Adams

**Dependencies:** Not specified

## Technology Stack

---

**Layer 3 Networking Only:** Yes

**No Hardcoded Ips:** Yes

**Web Technologies Only:** Yes

**Paas Supported Database:** Yes

**Has Dockerfile:** No

## Technologies

---

- Optimizely
- Google Tag Manager
- Nginx
- Ubuntu

## Source Code Readiness

---

### Servers

---

- starryweb1
- starryproxy1
- starryapp1
- starrydb2

### Network Devices

---

52.44.240.85

52.4.235.174

52.86.147.163

### Databases

---

- Starry Account database

# The Irish Times [↗](#)

<http://www.Irishtimes.com>

**Environment:** Development

The Irish Times is an Irish daily broadsheet newspaper launched on 29 March 1859

## Transition Plan

**Transition Type:** Refactor

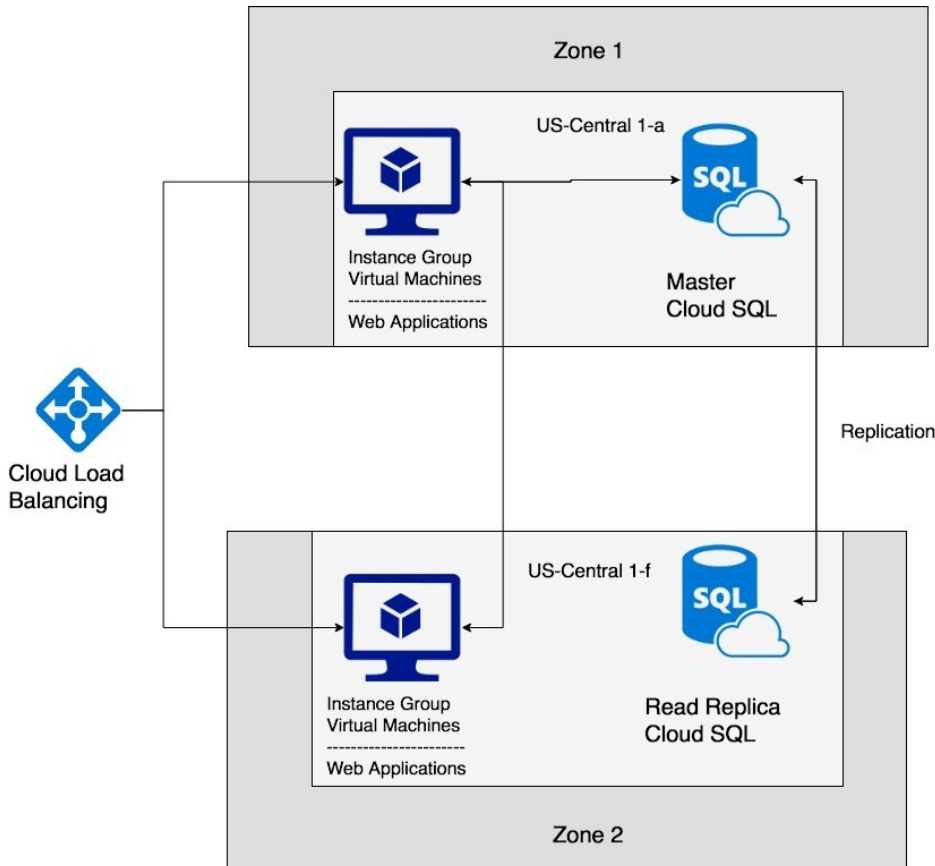
**Migration Wave:** Move Group - 2019-03-08

**Target Clouds:** Azure

**Transition Plan Complete:** true

## Transition Overview

Opportunity to refactor this to use cloud native services like S3, and drop any file-share technology that is currently used internally on web servers to have one common set of web assets per site.



## Service Management

---

**Customers:** Brice Schuppe

**Owner:** Nels McGlynn

**Technical Contact:** Meta Moore

**Dependencies:** Not specified

## Technology Stack

---

**Layer 3 Networking Only:** No

**No Hardcoded Ips:** Yes

**Web Technologies Only:** Yes

**Paas Supported Database:** No

**Has Dockerfile:** Yes

## Source Code Readiness

---

### Source Code Location

- /usr/bin/Irishtimes/shared/applications/web\_apps/Irishtimes\_application
- git@github.com:Irishtimes/Irishtimes-app.git

**Migration Difficulty:** Medium - 59.15%

**Roadblocks:** 36

## Servers

---

- irishtimesweb4
- irishproxy3
- irishtimesapp3
- irishtimesdb3

## Databases

---

- Irishtimes App database

# Thesaurus website [↗](#)

<http://www.Thesaurus.com>

**Environment:** Test

Thesaurus.com is the world's largest and most trusted free online thesaurus brought to you by Dictionary.com

## Transition Plan

**Transition Type:** Refactor

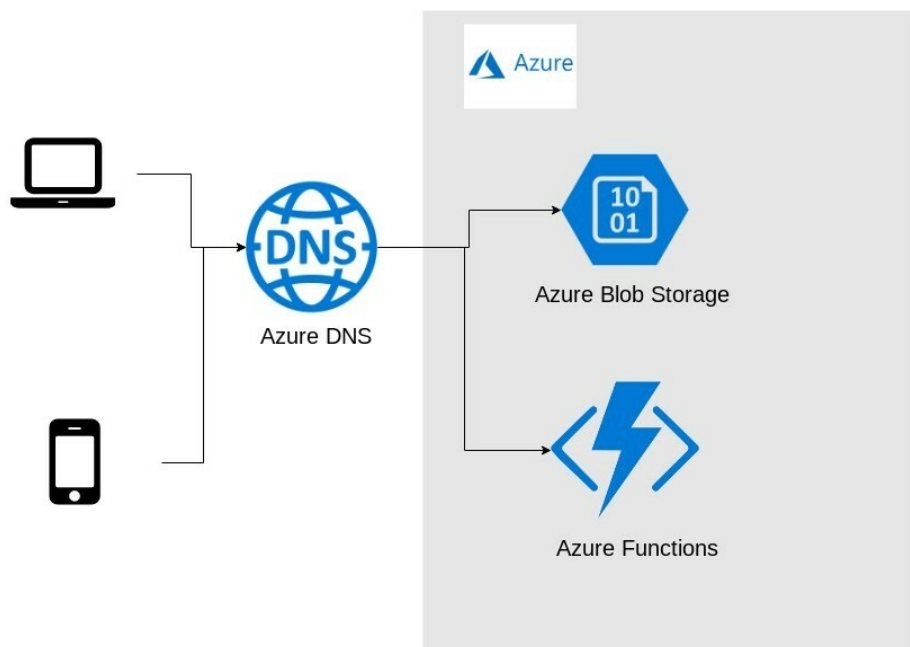
**Migration Wave:** Move Group - 2019-03-08

**Target Clouds:** Azure

**Transition Plan Complete:** true

## Transition Overview

Suggest refactoring public website to a serverless (e.g. CloudFront + s3) static site, separating explicitly the public (Lowrisk) data from the private sharepoint site that requires login if this has not yet been completed. The other highlight for refactoring the public facing website is that it is the first sign of a modernization initiative and likely to help building momentum that change is possible.



## Service Management

---

**Customers:** Darian Schmeler

**Owner:** Forrest Grady

**Technical Contact:** Ricky O'Keefe IV

**Dependencies:** Not specified

## Technology Stack

---

**Layer 3 Networking Only:** No

**No Hardcoded Ips:** No

**Web Technologies Only:** No

**Paas Supported Database:** Yes

**Has Dockerfile:** Yes

## Source Code Readiness

---

### Source Code Location

- /usr/bin/Thesaurus/shared/applications/web\_apps/Thesaurus\_application
- git@github.com:Thesaurus/Thesaurus-app.git

**Migration Difficulty:** Medium - 59.26%

**Roadblocks:** 36

## Servers

---

- thesaurusweb4
- thesaurusproxy5
- thesaurusapp5
- thesaurusdb1

## Databases

---

- Thesaurus App database

# Tom's Guide [↗](#)

<http://www.Tomsguide.com>

**Environment:** Development

Find the best tech products by category. Tom's Guide features unbiased reviews, buyer's guides, tutorials and free software and app downloads

## Transition Plan

**Transition Type:** Refactor

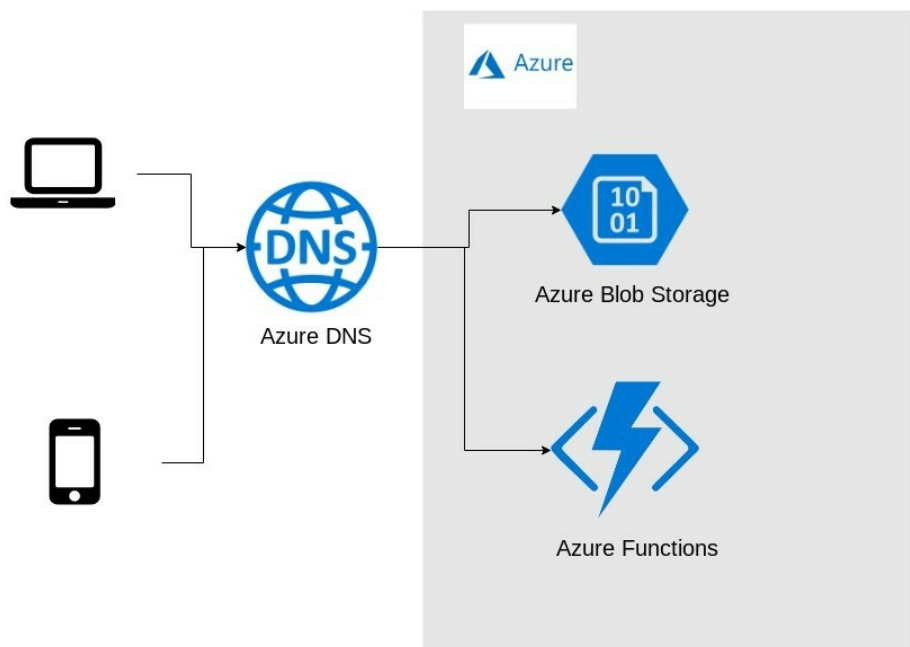
**Migration Wave:** Move Group - 2018-07-03

**Target Clouds:** Azure

**Transition Plan Complete:** false

## Transition Overview

Suggest refactoring public website to a serverless (e.g. CloudFront + s3) static site, separating explicitly the public (Lowrisk) data from the private sharepoint site that requires login if this has not yet been completed. The other highlight for refactoring the public facing website is that it is the first sign of a modernization initiative and likely to help building momentum that change is possible.





## Service Management

---

**Customers:** Nolan Predovic DDS

**Owner:** Mr. Hazle Glover

**Technical Contact:** Rosalinda Kshlerin V

**Dependencies:** Shopsavvy API

## Technology Stack

---

**Layer 3 Networking Only:** No

**No Hardcoded Ips:** No

**Web Technologies Only:** No

**Paas Supported Database:** Yes

**Has Dockerfile:** No

## Source Code Readiness

---

### Source Code Location

- /usr/bin/Tomsguide/shared/applications/web\_apps/Tomsguide\_application
- git@github.com:Tomsguide/Tomsguide-app.git

**Migration Difficulty:** Easy - 67.95%

**Roadblocks:** 28

## Servers

---

- tomsguideweb0
- tomsguideproxy3
- tomsguideapp3
- tomsguidedb1

## Databases

---

- Tomsguide App database

# Trusted Reviews [↗](#)

<https://www.Trustedreviews.com/>, <https://www.trustedreviews.com/>, <http://www.Trustedreviews.com>

**Environment:** Production

Expert reviews of the latest consumer electronics, IT and computing products. Technology industry news, analysis and product launches

## Transition Plan

**Transition Type:** Rehost

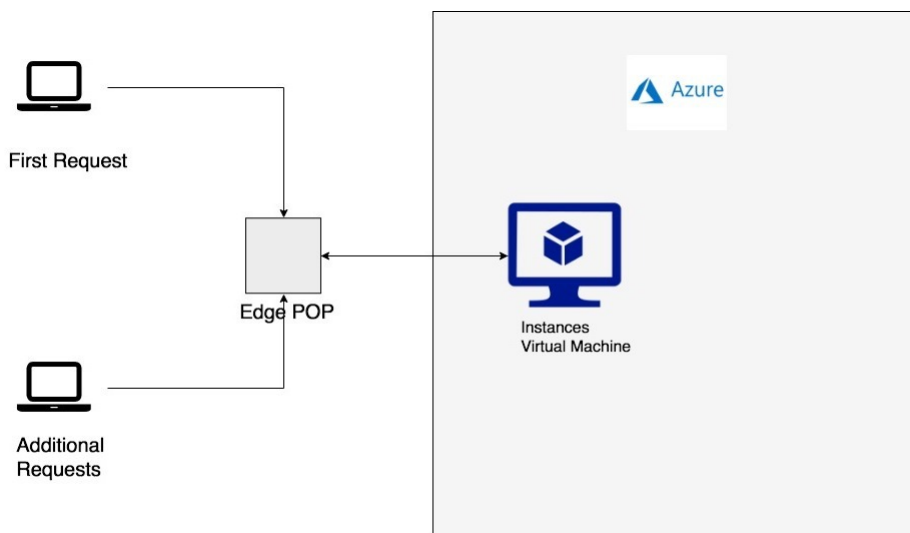
**Migration Wave:** Move Group - 2018-06-17

**Target Clouds:** Azure

**Transition Plan Complete:** true

## Transition Overview

Simple standalone COTS application with no integration requirements. Recommend lift and shift with a right-size.



## Service Management

**Customers:** Destin Christiansen

**Owner:** Ben Cole

**Technical Contact:** Alexandre Labadie

**Dependencies:** Not specified

## Technology Stack

---

**Layer 3 Networking Only:** Yes

**No Hardcoded Ips:** No

**Web Technologies Only:** Yes

**Paas Supported Database:** No

**Has Dockerfile:** Yes

## Technologies

---

- Apache
- WordPress
- Varnish
- Google Tag Manager
- Yoast SEO

## Source Code Readiness

---

### Servers

---

- trustedweb2
- trustedproxy0
- trustedapp5
- trusteddb2

### Network Devices

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151.101.126.114

### Databases

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- Trustedreviews Product database