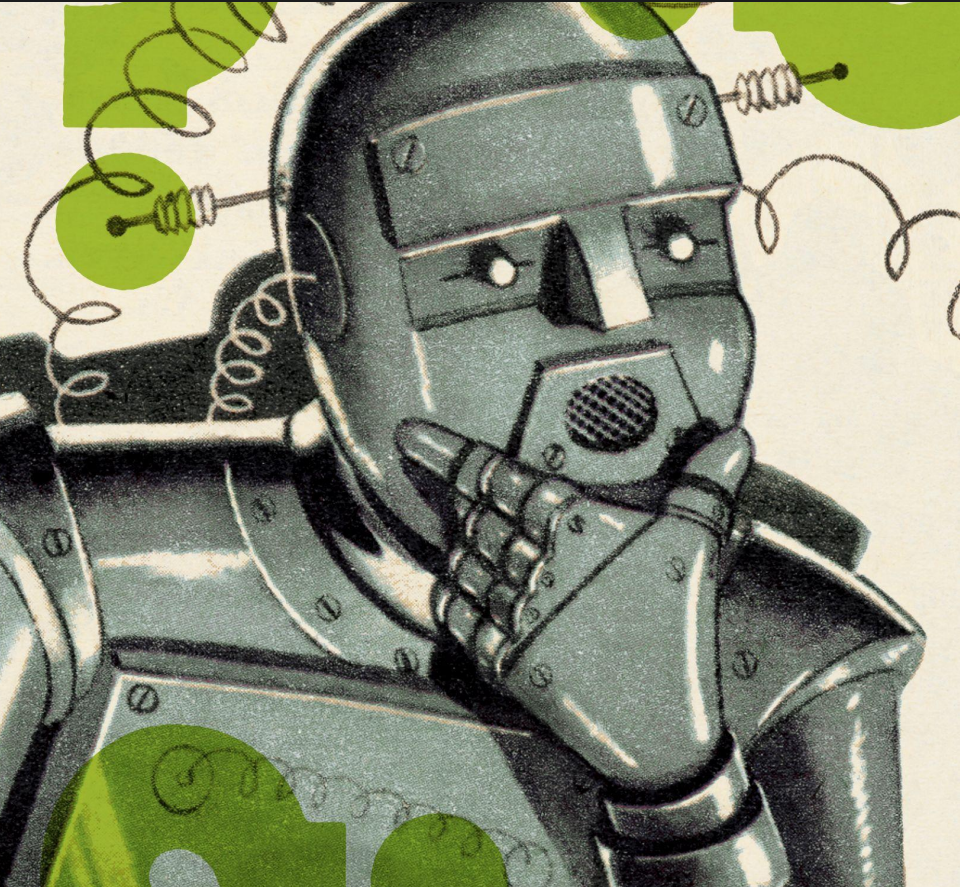


# Cloudamize

## Results Overview

*Created on February 06, 2025 for Example Customer*



## Summary Content

Assessment Summary  
Financial Summary  
SQL Core Reduction Strategies  
Storage Assessment  
EOL / EMP Assessment  
Modernization Options  
Business Value

1.

# Assessment Summary

# Cloudamize Overview

-  Industry leader & Cloud Service Provider Partner for over a decade
-  Supporting ~700 assessments / migrations annually
-  Influencing ~\$1B in CSP Spend
-  Globally positioned support and engineering teams to enable in-region support for customers and partners



# Assessment Overview



Total Servers Assessed: **2,635**



Servers Assessed via Agent/Agentless: **2,635**



Servers Assessed via vCenter/Hyper-V: **0**



Windows Servers in Scope: **2,258**



Linux Servers in Scope: **377**



Storage (TB): **1.3PB**



Storage Utilization (TB): **629.6TB**



SQL Server Overview

- Enterprise: **165**
- Standard: **270**
- Web: **0**



Applications Discovered: **4,352**



Business Applications Defined: **12**

## Excluded from Scope;

- Removed from Scope: **0**
- Zombie Machines: **524**  
(see [Zombie Machine Analysis](#))

If this number seems high, we encourage the use of the Cloudamize *Plan* component to remove the non-business level applications.

## Cloudamize License Period

**Started:** May 31, 2024

**Ended:** August 20, 2024

## Data Collection Period (11 Days)

**Started:** June 25, 2024

**Ended:** July 06, 2024

Live Pricing Calculated on: November 07, 2024

# 2.

# Financial Summary

# Financial Overview

## Infrastructure Modernization + Licensing Optimization + Savings Plan Commitment

| Savings Levers & Subtotals (Annual)                         | Savings Category       | Implementation Path                    | On Demand Pricing (SQL BYOL*)                                | On Demand Pricing (SQL License Included)  |
|---|------------------------|--|--|---|
| Lift & Shift Annual Est.                                    |                        |  | \$12.4M  | \$17.2M   |
| Savings by Applying Clouddamize Infra. Mod. Recommendations | Technical              |  | ↓ \$4.7M<br>38% Savings                                      | ↓ \$1.5M<br>9% Savings  |
| <i>Optimized Instance Recommendations</i>                   |                        | Cloudamize                             | ↓ \$4.7M   | ↓ \$1.5M  |
| **Optimized core requirements: SQL Servers                  |                        | Cloudamize                             | ↓ \$9.7M   | Coming Soon!  |
| **Downgrade non-prod SQL to Developer edition               |                        | Getting <a href="#">started guide</a>  | ↓ \$387K   | ↓ \$360K  |
| **Reduce non-prod runtimes (356 Servers)                    |                        | AWS <a href="#">instance scheduler</a> | ↓ \$345K   |   |
| Savings from Savings Plan Commitment (3 YR NURI)            | Commercial             | <a href="#">FAQ</a>                    | ↓ \$2.5M<br>20% Savings w/ SQL BYOL<br>14% Savings w/ SQL LI | Additional Savings Plans: <ul style="list-style-type: none"> <li>• 1 YR NURI: ↓ \$1.5M</li> <li>• 1 YR AURI: ↓ \$1.7M</li> <li>• 3 YR AURI: ↓ \$2.7M</li> </ul> |
| <b>TOTAL Annual Estimate</b>                                | Technical & Commercial | Cloudamize & AWS                       | <b>\$5.2M</b><br>↓ \$7.2M (58%)                              | <b>\$13M</b><br>↓ \$7.2M (36%)  |

\* SQL BYOL model does not include costs paid to Microsoft for SQL licensing. Add BYOL costs to the SQL BYOL option to understand apples comparison.  
 \*\* Savings not reflected in overall estimates, as they are dependant on the customer's contract with Microsoft, and/or requires additional actions to secure

# Financial Overview

## Savings Plan Comparison

|   | Annual Cost | Cost Difference | Compute | *Storage | **Network |
|---|-------------|-----------------|---------|----------|-----------|
| On-Demand Shared Tenancy Hardware / Lift & Shift  | \$12.4M     |                 | \$10.2M | \$2M     | \$211K    |
| On-Demand Shared Tenancy Right Sized   No Upfront | \$7.7M      | 38%             | \$6.7M  | \$771K   | \$211K    |
| 1-Year RI Shared Tenancy Right Sized   No Upfront | \$6.2M      | 50%             | \$5.2M  | \$771K   | \$211K    |
| 3-Year RI Shared Tenancy Right Sized   No Upfront | \$5.2M      | 58%             | \$4.3M  | \$771K   | \$211K    |

\* Storage costs provisioned at 100% utilized

\*\* Traffic costs are estimated at 10% of total egress traffic.

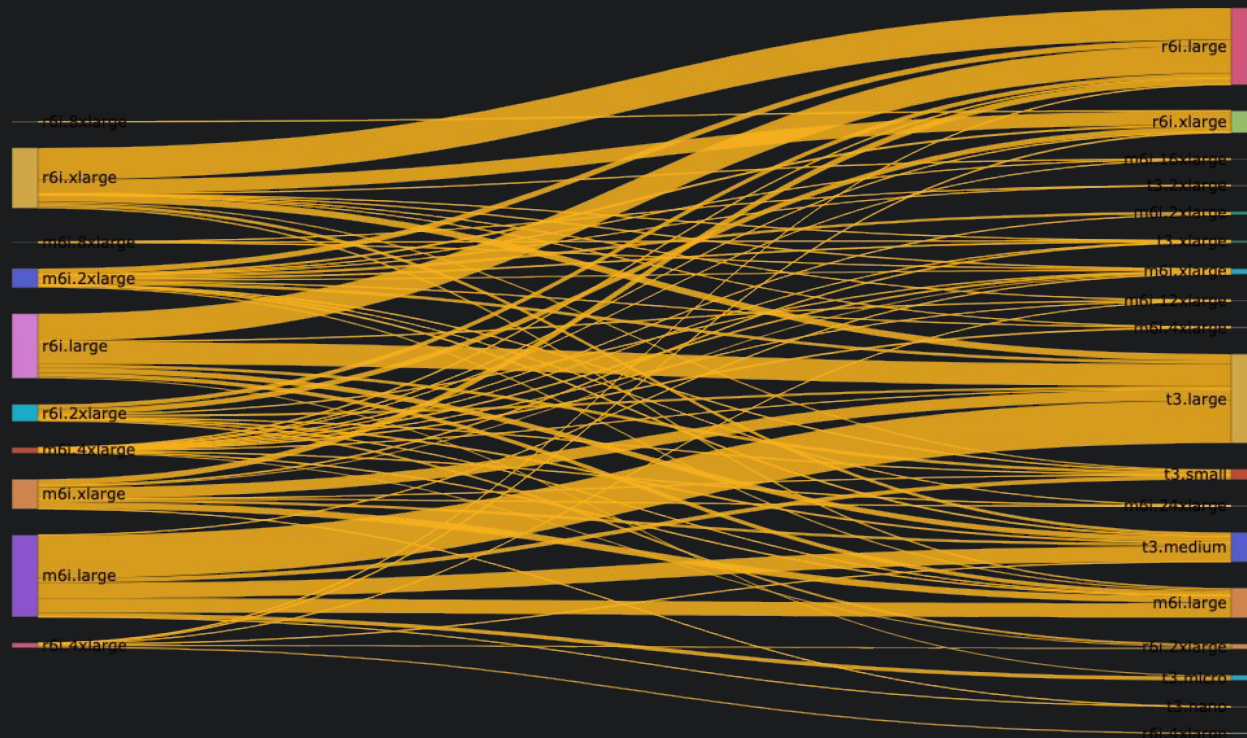


# Financial Overview (Cont.)

## Infrastructure Modernization Optimization Specifics

Hardware Mapping  
(Lift & Shift)

Workload Mapping  
(Cloudamize Right-Sized)



This chart shows the transition of machine instance families from a “lift and shift” migration to a workload utilization optimized, or “Right Sized” migration.

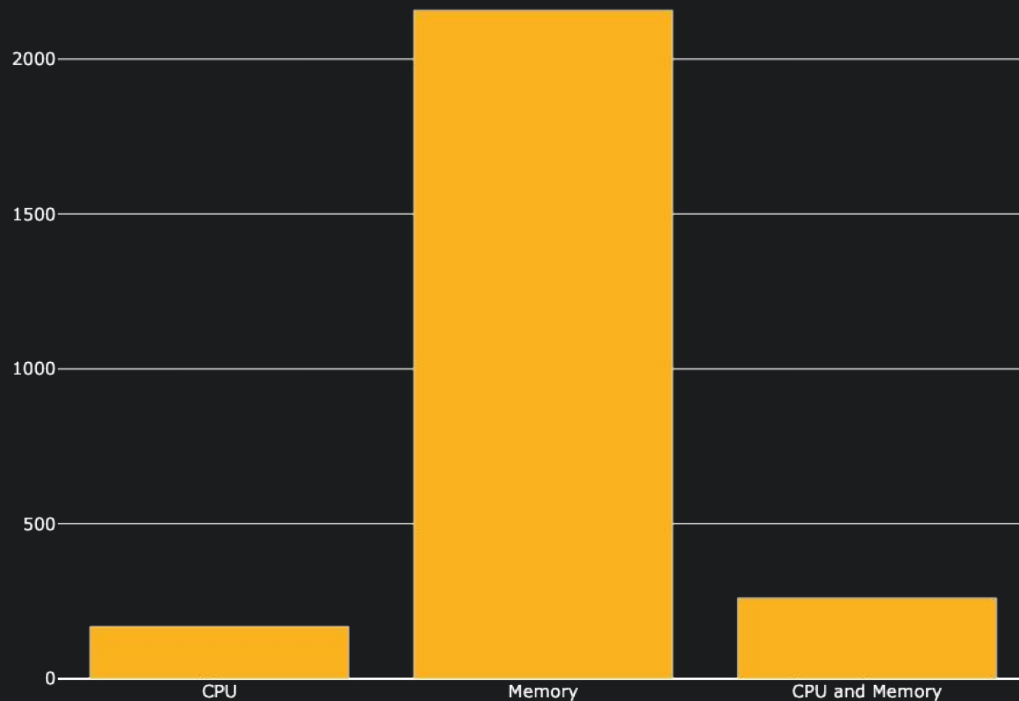
### Model Notes

- Tenancy: Shared
- Target Peak CPU Threshold: 80%
- Storage Capacity Scaling: 100%
- Network Load Factor: 10%

# Financial Overview (Cont.)

## Optimization Logic & Constraints

|                                   |       |
|-----------------------------------|-------|
| CPU Constrained Machines          | 169   |
| Memory Constrained Machines       | 2,158 |
| CPU & Memory Constrained Machines | 261   |



### Notes:

The *Constraint* is the main reason Cloudamize cannot recommend the next smallest EC2 instance.

A smaller EC2 instance would face performance issues such as CPU, Memory, or Disk IO.

# Potential Savings with Graviton

|                           |        |
|---------------------------|--------|
| Linux Servers             | 377    |
| Graviton OS Ready Servers | 105    |
| Non Graviton Cost         | \$104K |
| Graviton Cost             | \$95K  |
| Total Annual Savings      | \$10K  |

## Notes & Compatibility

Before migrating to Graviton based instances, verify that your workloads are supported. [Learn more](#).

Talk to your Cloudamize TAM if you're interested reviewing a Graviton-centric TCO.

Cloudamize

Graviton ARM64 processors are supported by most modern Linux OSs.

# 10%

Total Estimated Annual Savings with Graviton

# VMware Licensing Analysis

On-Premise Licensing Cost Estimate

|                           | 1 Year       | 3 Years       | 5 Years       |
|---------------------------|--------------|---------------|---------------|
| VMware Cloud Foundation   | <b>\$48K</b> | <b>\$143K</b> | <b>\$238K</b> |
| VMware vSphere Foundation | <b>\$18K</b> | <b>\$55K</b>  | <b>\$92K</b>  |
| VMware vSphere Standard   | <b>\$7K</b>  | <b>\$20K</b>  | <b>\$34K</b>  |

*Note: This cost is an estimate of licensing only based on published 3-year term pricing.*

**1**

Data Centers

**1**

Clusters

**4**

Hosts

**136**

Licensed Cores

# VMWare Licensing Analysis

Estimated Savings Via Migration to AWS

Know your actual on-premises infrastructure costs for these VMs? Let us know and we'll update the analysis!

|  | Annual Infrastructure Cost | Annual VMWare Licensing** | Total Cost of Ownership |
|--|----------------------------|---------------------------|-------------------------|
| <b>On-Premises</b>                           | <b>\$297K*</b>             | <b>\$18K</b>              | <b>\$316K</b>           |
| <b>AWS EC2<br/>(Lift &amp; Shift)</b>        | <b>\$297K</b>              | <b>\$0</b>                | <b>\$297K</b>           |
| <b>AWS EC2<br/>(Cloudamize Optimized***)</b> | <b>\$117K</b>              | <b>\$0</b>                | <b>\$117K</b>           |

\* On-premises costs estimated by.....

\*\* Analysis based on the 1 yr VMWare vSphere Foundation model

\*\*\* Modeled using 3 yr NUR!

# 69

Total VMs  
Migrated off  
of VMWare

# 63%

Reduction in Cost via moving to  
AWS EC2 with Cloudamize  
Infrastructure modernization

# 3.

## SQL Core Reduction Strategies

# SQL Core Reduction

|   | Standard     | Enterprise   | Total        |
|---|--------------|--------------|--------------|
| <b>Current on-prem SQL cores</b>  | <b>1,472</b> | <b>1,412</b> | <b>2,884</b> |
| <b>AWS SQL cores, Cloudamize Right-size</b><br><small>(migrating to right-sized EC2 instances only)</small> | <b>1,256</b> | <b>1,972</b> | <b>3,228</b> |
| <b>AWS SQL cores, post applying Optimize CPU configs</b><br><small>(BYOL only)</small>                      | <b>1,024</b> | <b>776</b>   | <b>1,800</b> |

Reducing SQL Server cores frees up licenses for use on other servers immediately, and can result in savings on future SQL Server purchases and Software Assurance renewals.

**1,084** cores reduced compared to on-prem

### AWS's "Optimize CPU" feature

Customers sometimes need to select Amazon EC2 instances with more vCPUs than needed due to factors like memory or IOPS requirements. To help save on vCPU-based BYOL licensing costs in such cases, AWS offers the "Optimize CPU" feature, which reduces licensable cores. You can specify a custom number of vCPUs when launching new instances, maintaining the same memory, storage, and bandwidth as a full-sized instance. For existing EC2 instances, the simplest way to apply Optimize CPU configurations is to create AMIs of your existing SQL servers and relaunch with your preferred CPU options.

# SQL BYOL Core Reduction Savings

|   | Standard      | Enterprise    | Total         |
|---|---------------|---------------|---------------|
| ~ Annual SQL SA savings, from BYOL core optimizations | <b>\$163K</b> | <b>\$888K</b> | <b>\$1.1M</b> |
| ~ Value of reusable BYOL SQL licenses (MSRP)          | <b>\$884K</b> | <b>\$4.8M</b> | <b>\$5.7M</b> |
| ~ Value of Dev Downgrades (MSRP + SA)                 | <b>\$205K</b> | <b>\$181K</b> | <b>\$387K</b> |

BYOL SA savings realizable at next MSFT true-up or renewal.

MSRP value of reusable BYOL SQL licenses is achieved after implementing SQL Optimize CPU and Dev downgrade recommendations in AWS, and fully reusing the licenses on other SQL servers. Calculation uses the actual [MSRP Ent and Std edition cost](#)

Software Assurance (SA) savings potential is an estimate. Actual savings depend on your specific Microsoft pricing. SA savings are based on the following MSRP costs: Enterprise \$2,793 per 2 cores, Standard \$728 per 2 cores.



# SQL License Included Savings

|   | Standard | Enterprise  | Total  |
|---|----------|-------------|--------|
| Annual reduced core savings from <u>Cloudamize Right-Sizing</u> |          | Coming soon |        |
| Annual savings from <u>Dev Downgrades</u>                       | \$202K   | \$158K      | \$360K |
| Total Savings   | \$202K   | \$158K      | \$360K |

Non-prod machines could use SQL Server Developer Edition, which has no license cost.

Servers using following naming conventions are assumed non-prod:

dev, poc, qa, tst, test, uat, demo, stage, stg, staging, hml, homolog, nonprod

# Non Prod machines

| Group Name              | Asset   | Server Name                                 | OS      |
|-------------------------|---------|---|---------|
| Physical Infrastructure | Default | Names<br>Removed<br>from<br>Example<br>Deck | Windows |
| Physical Infrastructure | Default |   | Windows |
| Physical Infrastructure | Default |   | Windows |
| Physical Infrastructure | Default |   | Windows |
| Physical Infrastructure | Default |   | Windows |
| Physical Infrastructure | Default |   | Windows |
| Physical Infrastructure | Default |   | Windows |
| Physical Infrastructure | Default |   | Windows |
| Physical Infrastructure | Default |   | Windows |
| Physical Infrastructure | Default |   | Windows |
| Physical Infrastructure | Default |   | Windows |
| Physical Infrastructure | Default |   | Windows |
| Physical Infrastructure | Default |   | Windows |
| Physical Infrastructure | Default |   | Windows |
| Physical Infrastructure | Default |   | Windows |
| Physical Infrastructure | Default |   | Windows |
| Physical Infrastructure | Default |   | Windows |
| Physical Infrastructure | Default |   | Windows |
| Physical Infrastructure | Default |   | Windows |
| Physical Infrastructure | Default |   | Windows |
| Physical Infrastructure | Default | Windows                                     |         |
| Physical Infrastructure | Default | Windows (MS SQL Standard)                   |         |
| Physical Infrastructure | Default | Windows (MS SQL Standard)                   |         |
| Physical Infrastructure | Default | Windows (MS SQL Standard)                   |         |
| Physical Infrastructure | Default | Windows (MS SQL Standard)                   |         |
| Physical Infrastructure | Default | Windows (MS SQL Standard)                   |         |
| Physical Infrastructure | Default | Windows (MS SQL Standard)                   |         |
| Physical Infrastructure | Default | Windows                                     |         |
| Physical Infrastructure | Default | Windows                                     |         |
| Physical Infrastructure | Default | Windows                                     |         |

Save **\$345K** by reducing non-prod runtimes of **356** servers

You can use the AWS [instance scheduler](#) to automatically start and stop non-prod instances.

Save **\$360K** by moving non-prod SQL machines to SQL Server Developer Edition, which has no license cost. [Getting started guide](#)

Servers using following naming conventions are assumed non-prod:  
dev, poc, qa, tst, test, uat, demo, stage, stg, staging, hml, homolog, nonprod

# 4.

# Storage Assessment

# Storage Analysis

|                                  |                |
|----------------------------------|----------------|
| Total Disk Capacity              | <b>1.3PB</b>   |
| Total Disk Occupancy             | <b>629.6TB</b> |
| Recommended Total Disk Occupancy | <b>639.2TB</b> |

AWS Recommends 100% disk occupancy for an initial TCO. If you'd like to increase this, we can customize your TCO to add storage headroom.

Cloudamize

# 54%

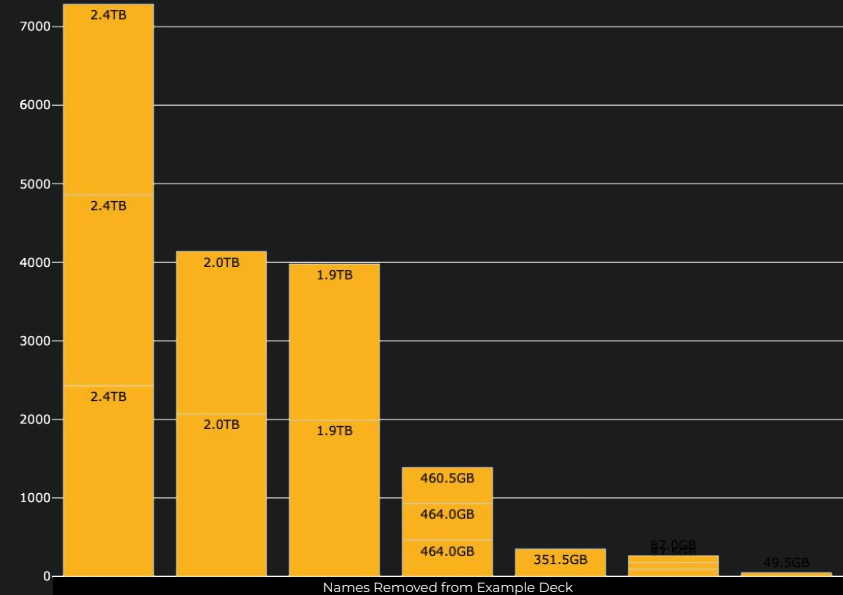
Reduction in Storage via Cloudamize Optimization

Interested in modernizing your storage and potentially saving even more? Consider AWS FSx. Read more on the **FSx slide**.

# Further Optimization with AWS FSx

Amazon FSx for Windows File Server provides fully managed shared storage.

|  |               |
|--|---------------|
| EC2 Compute  | <b>\$95K</b>  |
| EC2 Storage  | <b>\$41K</b>  |
| Total EC2 Cost   | <b>\$135K</b> |
| FSx Cost<br>(56 FSx Shares)                              | <b>\$59K</b>  |
| <b>Total Annual Savings</b><br>(Compute + Storage - FSx) | <b>\$76K</b>  |



# 9

Windows File Servers

# 56%

Reduction in Cost via FSx, the easiest, most cost effective Windows file shares in the cloud.

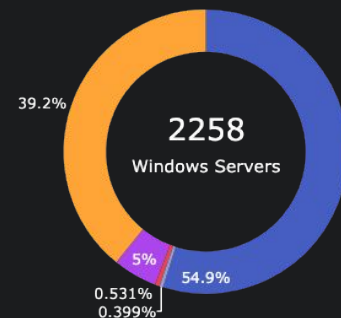
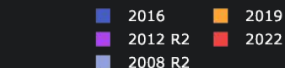
Additional information [here](#)

# 5.

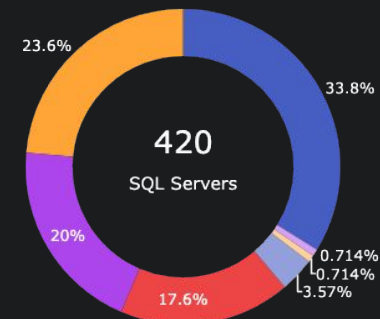
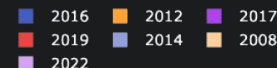
# EOL / EMP Assessment

# Microsoft EOL Analysis

| Windows Server Version | Count       | OS Support Cycle                 | End of Ext. Support | Risk        |
|------------------------|-------------|----------------------------------|---------------------|-------------|
| <b>&lt;= 2012 R2</b>   | <b>122</b>  | Unsupported                      | October 10, 2023    | <b>High</b> |
| <b>2016</b>            | <b>1239</b> | Extended Support                 | January 12, 2027    | <b>Med</b>  |
| <b>2019</b>            | <b>885</b>  | Extended Support                 | January 09, 2029    | <b>Med</b>  |
| <b>2022</b>            | <b>12</b>   | Supported until October 13, 2026 | October 14, 2031    | <b>Low</b>  |
| <b>2025</b>            | <b>0</b>    | Supported until October 9, 2029  | October 10, 2034    | <b>Low</b>  |



| SQL Server Version | Count      | DB Support Cycle  | End of Ext. Support | Risk        |
|--------------------|------------|-------------------|---------------------|-------------|
| <b>&lt;= 2014</b>  | <b>117</b> | Unsupported       | July 9, 2024        | <b>High</b> |
| <b>2016</b>        | <b>142</b> | Extended Support  | July 14, 2026       | <b>Med</b>  |
| <b>2017</b>        | <b>84</b>  | Extended Support  | October 12, 2027    | <b>Med</b>  |
| <b>2019</b>        | <b>74</b>  | February 28, 2025 | January 8, 2030     | <b>Med</b>  |
| <b>2022</b>        | <b>3</b>   | January 11, 2028  | January 11, 2033    | <b>Low</b>  |



## What is the EMP Program?

End of Support Migration Program (EMP) for Windows Server helps customers package legacy applications (on Windows Server 2003/2008/2012) allowing them to run on newer Windows Server OS (WS 2016/2019/2022) **without any code changes.**

The program provides tooling (**at no cost**) and optional access to experts.

Reach out to your Cloudfamize TAM if you're interested in taking advantage of this program.

## How does it work?

1. Perform Cloudfamize discovery to identify candidates for EMP
2. The AWS EMP tool creates a Compatibility Package
3. Application with Compatibility Package is installed on latest version of Windows server in AWS
4. User Acceptance Testing is performed on Application
5. Deploy Application to Production



# 6.

# Modernization Options




# RDS as an Option

|              | Standard Edition | Enterprise Edition | Total  |
|--------------|------------------|--------------------|--------|
| Server Count | 21               | 33                 | 54     |
| EC2 Cost     | \$178K           | \$832K             | \$1M   |
| RDS Cost     | \$269K           | \$1.3M             | \$1.6M |

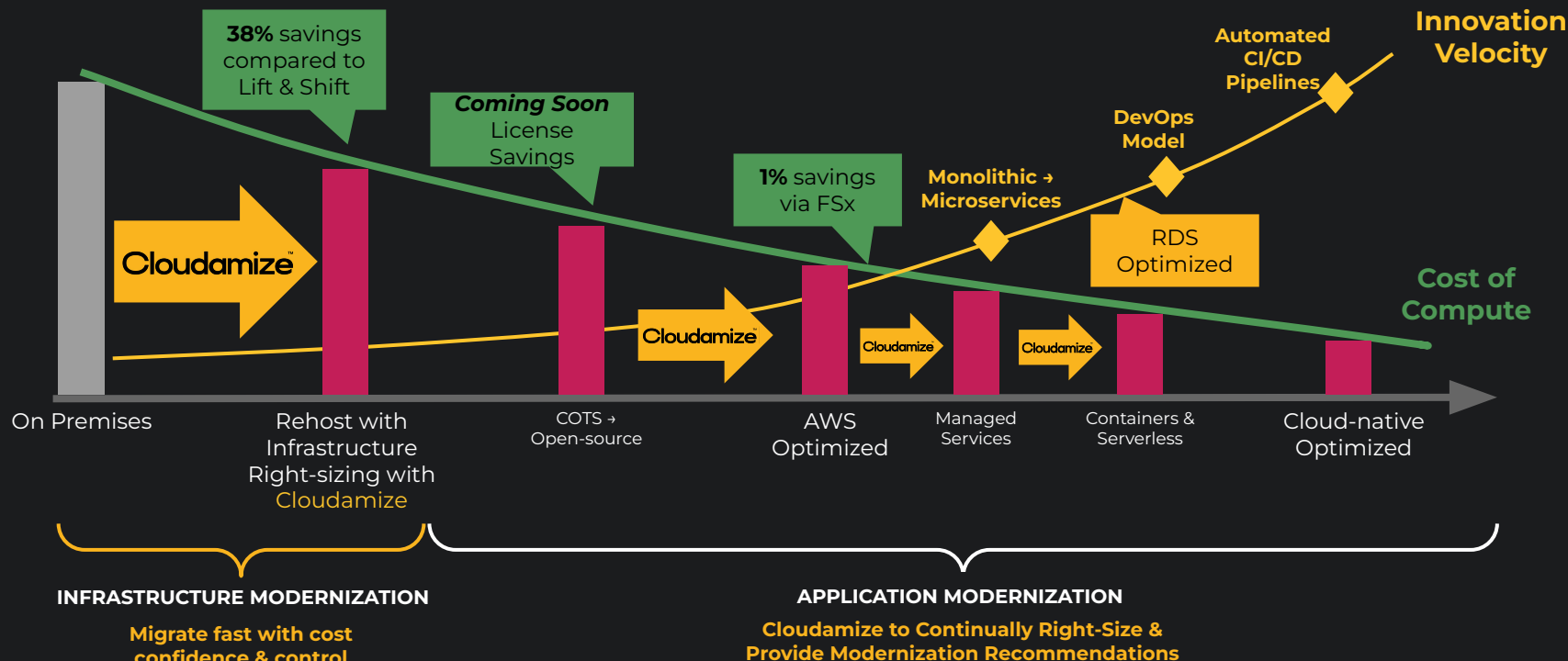
## Notes

Pricing above is based on TYR NURI EC2 compared to RDS Standard onDemand

## RDS Benefits

-  Focus on Innovation
-  Migrate without Rearchitecting Apps
-  Less Time Managing Databases
-  Improve Database & Infra Efficiency
-  Decrease Capital & Operational Expense
-  High Availability & Durability
-  Easy to Scale

# Migration & Modernization Journey



**7.**

# Business Value

Cloudamize estimates the per-instance On-Prem Carbon footprint from the CPU utilization, disk capacity, RAM, Cores, Uptime, etc.

Based on the **Cloudamize Infrastructure Modernized** plan, Cloudamize has calculated the Carbon footprint associated with moving to AWS.

Login to your Cloudamize Console to **Download the full Sustainability Report.**

Consult your local regulations to see if there are Carbon reduction business credits/incentives that can be realized as part of your migration.

**1,200,850**  
kgCO<sub>2</sub>eq

On-Prem Estimation



**27,270**  
kgCO<sub>2</sub>eq

In AWS Cloud Estimation

# 98%

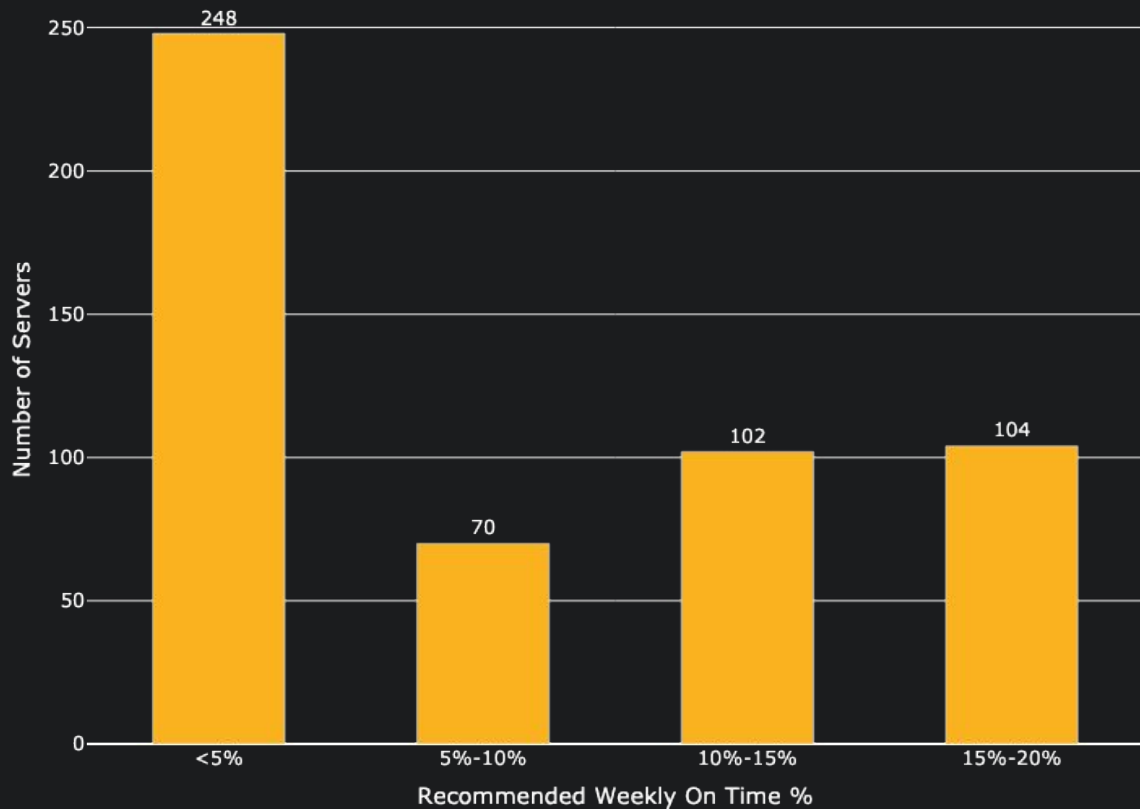
Total Carbon Savings by migrating to AWS Cloud!



An awesome impact!

# Zombie Server Analysis

Servers that are on, but contain < 20% usage



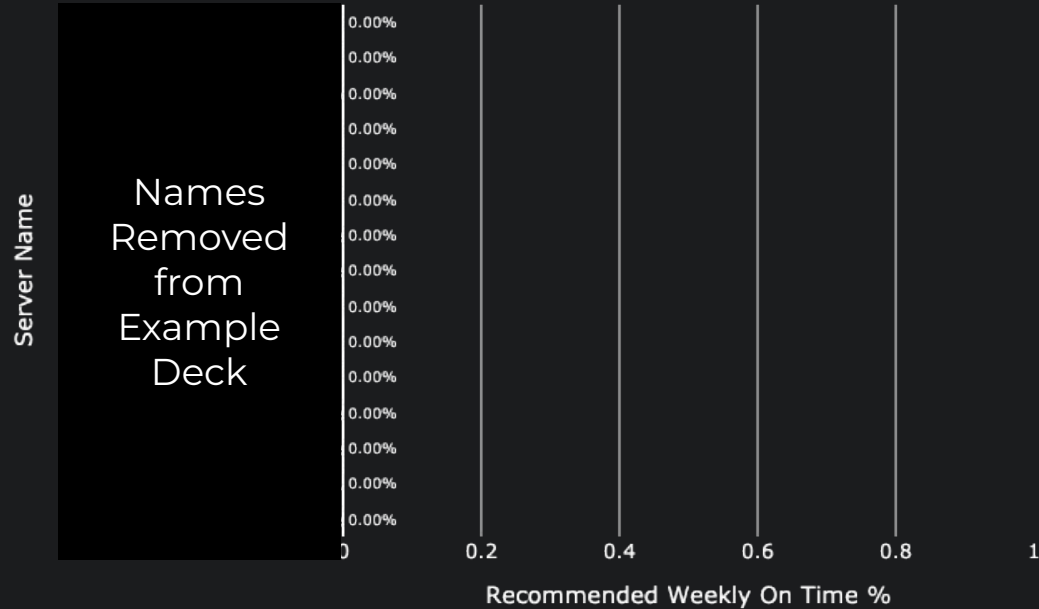
# 524

Servers with less than 20% usage

**NOTE:** Cloudamize identified these as Zombie servers based on the fact that they are running with extremely low usage. We highly suggest examining the server's role to validate and justify the server cost in AWS EC2 in order to confirm that they can be safely shutdown without impacting day-to-day operations.

# Top Zombie Servers

Servers that are on, but contain < 20% usage



# \$884K

Potential on-Demand Savings within the 0-20% usage group

## Next Steps

- Investigate & confirm whether these are truly unused servers. The Cloudamize Plan component can be used to review all application dependencies on a server.
- If you're interested in an updated Cloudamize TCO, you can remove the instances from the assessment scope in the settings page.

Cloudamize™



**A.**

# Appendix: Using Cloudamize to help with the Next Steps

# Platform Overview

See following slides for more information



## DISCOVER

3 standard data collection methods plus advanced SQL telemetry collection. Now including NetApp integration!



## ANALYZE

Explore various TCO plans, or create your own custom plan, to reduce your lift-&-shift cost by >50%.



## PLAN

Explore application & server dependencies to intelligently group by Application, Wave, or 7R.



## MIGRATE

Connect to the Cloud, Replicate Servers, and Apply Right-Sizing, all from within Cloudamize.



## MANAGE

Orchestrate all of your team's assessment, planning, and migration activities with Runbooks.



## MODERNIZE

Continuous in-cloud real-time modernization recommendations as you continue to grow your cloud estate.

After tagging your customer business applications, use the new Application Catalogue to add meaningful metadata & context

Need help planning the end-to-end migration activities? Cloudamize Runbooks (beta) are now available!

A1.

PLAN

# Wave, 7R, & Application Tagging

The screenshot shows the Clouddamize Application Tagging interface. At the top, it displays 'Platform: Amazon Web Services' and 'Design: OLA 2 - Workload, On-Demand'. The main navigation includes 'Application Tagging', 'Application Catalog', and 'Rep'. A yellow callout box points to the 'Server Process' column header with the text: 'Advanced Filtering, enabling quick filtering by a specific Process'. The table below lists various server processes, each with a checkbox for selection and a green 'wire' icon. A 'Manage Tags' sidebar on the right shows 'Number of selected records: 0' and dropdown menus for 'Business Application', 'Migration Strategy', and 'Waves'. A yellow callout box points to the 'Apply' button with the text: 'Once filtered, you can quickly Tag all instances with a Business Application Name, place them in a Move Group, and/or classify them with a 7R strategy'. A 'Guide' sidebar on the far right provides instructions on how to use the view to identify and group machines.

| Server Group             | Server Asset | Server Machine                 | Server Process |  |
|--------------------------|--------------|--------------------------------|----------------|--|
| <input type="checkbox"/> | other        | Identity and Access Management | EU-esc02-ost01 | Distributed File System Replication (DF... |
| <input type="checkbox"/> | other        | Identity and Access Management | EU-esc02-ost01 | CrowdStrike Falcon Sensor                  |
| <input type="checkbox"/> | other        | Identity and Access Management | EU-esc02-ost01 | Microsoft Windows Operating System         |
| <input type="checkbox"/> | other        | Identity and Access Management | EU-esc02-ost01 | Active Directory                           |
| <input type="checkbox"/> | other        | Identity and Access Management | EU-esc02-ost01 | WinCollect Application                     |
| <input type="checkbox"/> | other        | Identity and Access Management | EU-esc02-ost01 | Web App (Web Services-Management)          |
| <input type="checkbox"/> | other        | Identity and Access Management | EU-esc02-ost01 | agentid-service.exe                        |
| <input type="checkbox"/> | other        | Identity and Access Management | EU-esc02-ost01 | WinCollect Service                         |
| <input type="checkbox"/> | other        | Identity and Access Management | DC12-PROD-GK01 | CrowdStrike Falcon Sensor                  |
| <input type="checkbox"/> | other        | Identity and Access Management | DC12-PROD-GK01 | Microsoft Windows Operating System         |

# Wave, 7R, & Application Tagging

The screenshot shows the Cloudamize Application Catalog interface. At the top, there's a navigation bar with 'Application Tagging' and 'Application Catalog' tabs. Below that, a breadcrumb trail shows 'Machine Groups >> jPEn >>'. A search bar is present on the left. The main area is a table with columns: 'Server Machine', 'Server IP', 'Server Process', 'Wave', 'Migration Strategy', and 'Business Application'. The table contains 10 rows of data. Callouts are overlaid on the interface:

- Top Callout:** 'Easily filter and sort by Machine Name, IP, Process/Application Name, or any of the tags' points to the search and filter options.
- Right Callout:** 'Quickly remove the noise' points to the 'Ignore Processes' button.
- Bottom Callout:** 'Quickly identify where there are dependencies, and click on the icon to view and select dependencies' points to the dependency icons in the 'Business Application' column.

On the right side, there's a 'Manage Tags' panel with a 'Business Application' dropdown and a 'Migration Strategy' dropdown. Below it, a 'Guide' panel provides instructions on how to use the tags.

# Wave, 7R, & Application Tagging

Platform Amazon Web Services

Plan DA

Application Tagging Application Catalog Application Canvas Reports

Machine Groups

Search

Show all records Ignore Processes Export

| Server Group | Server Asset               | Server Machine | Server IP   | Server Process       | Wave   |
|--------------|----------------------------|----------------|---|----------------------|--------|
| JPEn         | Email                      | SwUSftxl       | 96.43.249.185                                     | Java (server.jar)    | Wave 1 |
| JPEn         | Software Component and API | PrDrYCbv       | 220.41.10.20, 207.59.167.62, 140.157.127.117, ... | Microsoft SQL Server | Wave 1 |
| JPEn         | End-User Application       | RWLPNcmP       | 187.38.164.132                                    | Microsoft SQL Server | Wave 1 |

Manage Tags

Apply tags to group of selected machines based on hosted applications, migration strategies and/or migration waves.

Business Application Custom HR App

Migration Strategy Rehost

Waves

- Wave 2
- Wave 1
- Backlog

+ Add New Wave

Apply

Guide

This view lists all the application installed on the assessed machines in the infrastructure. Each row here represents an installed application identified running on a machine.

You can also view the incoming and outgoing connections from a machine

Tag/Name your application

Easily place your application into a 7R group and/or Wave

Step 3  
Finally click on **Apply** to save these tags.

Using the dependency filter, you can easily identify and filter custom business applications

Page Size: 10 | 1-3 of 3 Records

# Application Catalogue

The screenshot shows the Cloudfamize Application Catalogue interface. At the top, there are navigation tabs: 'Application Tagging', 'Application Catalog' (selected), 'Application Canvas', and 'Reports'. The main content area is titled 'Custom HR App' and includes a search bar, 'Processes' and 'Machines' filters, and a table of application components. A metadata panel on the right shows details for the 'Custom HR App', including the application owner 'Ken Henderson' and an 'Add new user' button. A 'Guide' sidebar on the far right provides context for the view.

| Process Name         | Migration Strategy | Wave   |
|----------------------|--------------------|--------|
| Microsoft SQL Server | Rehost             | Wave 1 |
| Java (server.jar)    | Rehost             | Wave 1 |

Metadata: Custom HR App

- Application Owner: None
- Env: None
- GEO: AMER
- Migration Strategy: Rehost
- Waves: Wave 1

Application Owner: Ken Henderson (khenderson@cloudfamize.com)

+ Add new user

Export

Page Size: 10 | 1-2 of 2 Records

+ Add Metadata

Guide: This view provides an overview of all Business Applications created using the Business Application Tag in the Application Tagging view. It includes a list of Machines and Processes associated with each Business Application.

Key features of this view:

- Explore all Business Applications created using the Business Application Tag.
- View Machines and Processes included in each Business Application.
- Manage metadata, such as Application Owner, Category, Complexity, etc.

Machines and Processes

Machine hosting multiple Processes might have overlapping tags due to multiple migration strategies. These conflicts need to be resolved to ensure clarity.

+ Expand Rows

Process and Machine info is automatically populated based on tagging

CMDB-like metadata can be easily defined for each application

Easily set engagement users as application owners, enabling easy identification/notification of users in other platform components

# Canvas View: Application Identification

**Migration Planner**

Machine View | Application View

Search: e.g. group, asset, instance, IP, DNS

Tools: Move Interconnected

**Application Interconnectivity**

Application Name: SQL

- MS SQL
- SQL Server Integration Services
- SQL Server Management Studio
- Microsoft SQL Server Reporting
- Microsoft SQL Server

**Project Management**

Summary

Use the Application Interconnectivity feature to explore where application are being used within your estate

**Summary**

Name: **RrGVUGkuVuCNKf**

IP Address: **show all**  
**51.98.240.80**

No Of Communicating Applications: **2**

Cost Summary:

Workload, On Demand

Total Cost: **\$7.8k**

Compute Cost: **\$7.6k**

Storage Cost: **\$161**

Network Cost: **\$48**

|                             |                          |  |
|-----------------------------|--------------------------|--|
| Machine Details             | <a href="#">Open</a>     | <a href="#">Detailed</a>                       |
| Firewall Rules              | <a href="#">Open</a>     | <a href="#">Quick</a> <a href="#">Detailed</a> |
| Installed Apps              | <a href="#">Open</a>     | <a href="#">Quick</a> <a href="#">Detailed</a> |
| Client App DNS              | <a href="#">Open</a>     | <a href="#">Quick</a> <a href="#">Detailed</a> |
| App CPU Usage               | <a href="#">Open</a>     | <a href="#">Quick</a> <a href="#">Detailed</a> |
| IP and DNS                  | <a href="#">Open</a>     | <a href="#">Quick</a> <a href="#">Detailed</a> |
| App Interconnectivity (All) | <a href="#">Detailed</a> |  |
| App Interconnectivity       | <a href="#">Detailed</a> |  |

[Download All](#)



# Canvas View: Application Communication

**Migration Planner** Machine View Application View

Search: e.g. group, asset, instance, IP, DNS

Move Interconnected

Application Interconnectivity

Project Management

Summary

Server IP Address: 171.43.20.152

| Client                      | Server                                |
|-----------------------------|---------------------------------------|
| Remote Procedure Call (RPC) | Remote Procedure Call (RPC), Port:135 |

Client: KHjjsFBn

Client IP Address: 171.43.20.152

Server: kultpvpE

Server IP Address: 78.119.161.97

| Client                      | Server                                |
|-----------------------------|---------------------------------------|
| User Profile Service        | WMI component, Port:60590             |
| Remote Procedure Call (RPC) | Remote Procedure Call (RPC), Port:135 |
| Microsoft SQL Server        | Microsoft SQL Server, Port:64692      |

Selecting a communication line exposes all aspects of that communication in the summary tab on the right.

# Canvas View: Next Generation

Coming in Q2 of 2025

Server Applications

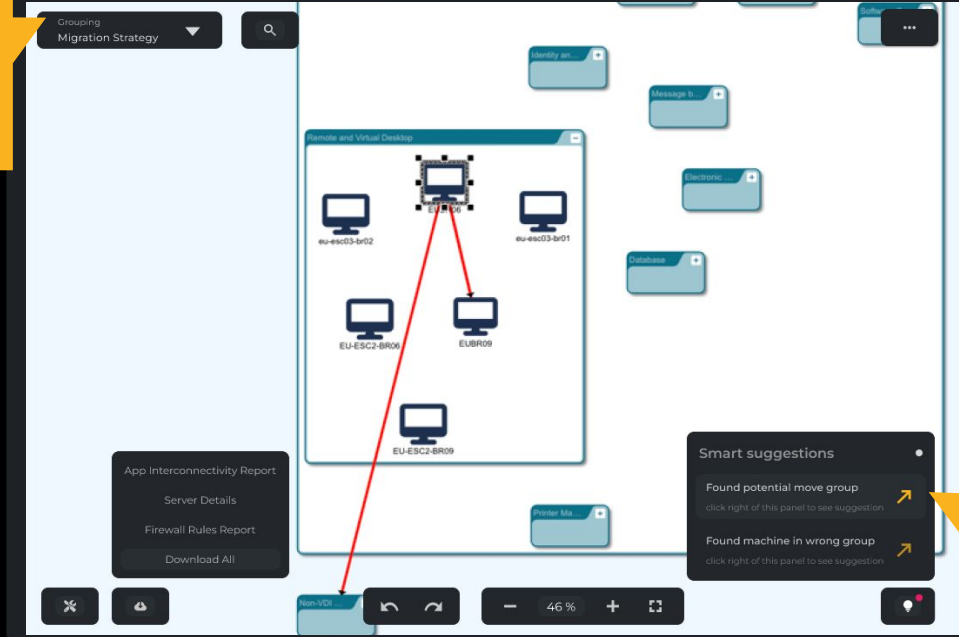
App Catalogue

Canvas

Reports

Grouping  
Migration Strategy

Visualize by **Move Group**, **Migration Strategy (7Rs)**, or **Applications**



Smart Suggestions will help expedite the grouping process by suggesting groups based on Connection Density, and highlight potential issues.

# A2. MIGRATE

# Migration Assistant Dashboard

Clouddamize™ Platform Amazon Web Services Design OLA 2 - Workload, On-Demand Migration Assistant DA

**Manage Cloud Provider Accounts and Migrations.** Giving Clouddamize access to your Cloud account allows us to automate the migration of servers from groups defined in Migration Planner. Start by adding Accounts, then use these Accounts in Migrations.

### Accounts

| Name        | CSP | ID           | Access   |     |
|-------------|-----|--------------|----------|-----|
| AWS staging | aws | 123456789012 | verified | ... |
| AWS prod 1  | aws | 234567890121 | verified | ... |
| AWS prod 2  | aws | 345678901212 | pending  | ... |

### Migrations

| Name ↓                  | Plan | Account     | Status        |                                |
|-------------------------|------|-------------|---------------|--------------------------------|
| SAP                     | 7    | AWS staging | mgn_complete  | <a href="#">Design Doc</a> ... |
| Jira                    | 7    | AWS prod 1  | created       | <a href="#">Design Doc</a> ... |
| Development environment | 7    | AWS prod 1  | lld_generated | <a href="#">Design Doc</a> ... |

Add various CSP Accounts and/or environments

Start & manage multiple migration waves

Download automated LLD documentation for that specific Wave/Group

# Connect to your Cloud Account

Easily create new accounts. We'll provide a CloudFormation to expedite the set-up & permissions within your Cloud account

The screenshot shows the Clouddamize Migration Assistant interface. At the top, there's a header with the Clouddamize logo and 'Migration Assistant' with a dropdown arrow and a 'DA' button. Below the header, a yellow banner reads '+ New account' with a close button. The main content area has two progress steps: 'Select account provider' (checked) and 'Set up account' (active). The 'Set up account' step contains the following text: 'Set up a new AWS cloud account by following the instructions below: [Creating an AWS account](#)'. Below this, it says 'Download and apply the below AWS CloudFormation template, passing 212919 as ParamCustomerId when requested, to deploy access configuration:' followed by a yellow button 'Download CloudFormation'. The next line states 'To carry out migration, Clouddamize requires access to the created AWS account.' This is followed by 'Once complete, enter a unique name:' and a text input field with the placeholder 'e.g. Application Development' and a pencil icon. Below that, it says '...and the 12-digit account ID:' and another text input field with the placeholder 'e.g. 123456789012' and a refresh icon. At the bottom right of the modal is a yellow 'Finish' button.

# Step 1: Select a Migration Group

**New migration** [X]

Design migration plan | Select account | Configure MGN agent | Apply Right-Sizing

Give the migration a unique name.

Name [Refresh]

**Machine Group**  
Select a machine group to view the assets that will be included in the migration plan.

Machine Group [Dropdown]

View included instances

**Design**  
Select the target platform and migration design that will be used for pricing and to determine right-sizing for the application.

Platform [Dropdown]

Design [Dropdown]

Cancel | Continue to next step

Select the Group that you Created in Migration Planner

Select a design that reflects the desired in-cloud configuration and cost

# Step 2: Select an Account

Clouddamize™ Migration Assistant DA

Manage Cloud Provider Accounts and Migrations. Giving Clouddamize access to your Cloud account allows us to automate the migration of servers from groups defined in Migration Planner. Start by adding Accounts, then use these Accounts in Migrations.

### Accounts

| Name        | ... |
|-------------|-----|
| AWS staging | ... |
| AWS prod 1  | ... |

#### Migration: Jira

Design migration plan — Select account — Configure MGN agent — Apply Right-Sizing

If you think an account is missing, check that it is in *access\_verified* state.

Select the account you want to migrate to:

Account: AWS prod 1    aws ID: 234567890121    access\_verified

Back    Continue to next step

| Name               | ...  |
|--------------------|--|
| Complete Migration | ...  |
| Created Migration  | Jira    Workload, On Demand    AWS prod 1    created    ...                                  |
| Lld Created        | Development environment    Hardware, On Demand    AWS prod 1    created    Design Doc    ... |

+ Add    + Start new

Select from your active CSP accounts

# Step 3: Initiate Server Replication

Cloudamize™ Migration Assistant DA

### Migration: Jira

Design migration plan ✓ Select account ✓ Configure MGN agent ✓ Apply Right-Sizing

#### MGN Configuration

Install MGN agent on the selected group

Advanced Options

**Start MGN installation**

Advanced Options

Additional MGN Arguments

Replication Subnet  
Default

Launch Subnet  
subnet-0dadab28ed0fc2884

#### MGN Installation & Replication

Once configuration is complete, the status of the installation and registration process will be reported below.

**Check Status** **View Details**

|                           |                            |
|---------------------------|----------------------------|
| Agent Installation        | 100% - 2/2 nodes completed |
| AWS Registration Progress | 100% - 2/2 nodes completed |
| Last Update               | 07/11/2024, 11:57:13       |

**Back** **Continue to next step**

Initiate the replication & Monitor the status



# Step 3 (Cont.): Easy Monitor Status

The screenshot shows the Clouddamize Migration Assistant interface. At the top, it says 'Migration: ima test'. Below that, a 'Detailed Instance Status' modal is open, displaying a table of instances. The table has three columns: Instance Name, Agent Installation Status, and AWS Registration Status. The first instance, EC2AMAZ-2QLONST, shows 'Success' for both. The second instance, ip-172-31-8-200.eu-central-1.compute.internal, shows an 'Error' for Agent Installation Status and 'Pending' for AWS Registration Status. The other four instances show 'Success' for both. A 'View Details' link is next to the error. At the bottom of the modal, there are 'Back' and 'Continue to next step' buttons.

| Instance Name                                  | Agent Installation Status          | AWS Registration Status |
|--|------------------------------------|-------------------------|
| EC2AMAZ-2QLONST                                | Success                            | Success                 |
| ip-172-31-8-200.eu-central-1.compute.internal  | Error <a href="#">View Details</a> | Pending                 |
| ip-172-31-29-239                               | Success                            | Success                 |
| ip-172-31-16-176.eu-central-1.compute.internal | Success                            | Success                 |
| ip-172-31-18-245                               | Success                            | Success                 |
| ip-172-31-27-16                                | Success                            | Success                 |

You can monitor the server-by-server replication here, AND from within the AWS MGN Console.

# Step 4: Apply Right-Sizing

Cloudamize™ Migration Assistant DA

Manage Cloud Provider Accounts and Migrations. Giving Cloudamize access to your Cloud account allows us to automate the migration of servers from groups defined in Migration Planner. Start by adding Accounts, then use these Accounts in Migrations.

### Migration: Jira

Design migration plan — Select account — Configure MGN agent — **Apply Right-Sizing**

Machine group: QKrr (2 instances)  
Selected Plan: Example Workload, On Demand  
Target account: AWS staging

Apply recommended right-sizing to migrated servers. Once initiated, go to your Amazon Web Services account following this link to continue the migration process:  
[AWS Application Migration Service](#)

**Apply Right-Sizing**

Back Close

|             |                         |                             |             |             |            |     |
|-------------|-------------------------|-----------------------------|-------------|-------------|------------|-----|
| Lld Created | Development environment | Hardware, On Demand         | AWS prod 1  | created     | Design Doc | ... |
| Example     | QKrr                    | OLA 2 - Workload, On-Demand | AWS staging | mgn_started |            | ... |

Complete the replication into the cloud by applying Cloudamize rightsizing based on your TCO plan

# A3. MANAGE

Runbooks are a series of tasks to be completed as part of a migration. In the section below, you can add tasks, assign owners, tag Business Applications, and notifications for each of the tasks. When ready, you can execute the Runbook.

Manage > Runbooks > Migration

Set-up **unlimited Runbooks**. e.g. one to drive the assessment, one of the planning, and one for the migration execution

Add **unlimited Tasks** and import common tasks/templates from other Runbooks.

The screenshot displays the Clouddamize Runbooks interface. At the top, there is a search bar and buttons for '+ Add Task' and 'Import Tasks'. Below this is a table of tasks with columns for Name, Status, Owner, Execution, and Reorder. The table lists several tasks, including 'Migration Planning Kick-Off Call' (Completed, Jean Timmons) and 'App Owners & Infra Team: Application Tagging ...' (Completed, Ankit Singla). Below the table, a detailed view of a task configuration is shown, including sections for Description, Notify Users (with a list of users: Jamie Willard, Steve Johnson, Jean Timmons), Reports (with 'App Interconnectivity' and 'Installed Apps'), Migrate Group, and Business Application (with 'Custom HR Application').

Link reports to a task

Add additional members who receive task notifications

Automate initiating MIGRATE groups within a task

Link Applications to a task

Define task owners.

Define whether the task runs in parallel with the previous task, or afterwards.