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Data and Infrastructure Assessment

Overview

May - 2021

Why should I do this assessment?

Without the performance data of the existing IT server landscape, no cost statements can be made.

Each cloud provider has a variety of Compute and Storage profiles that depends on average utilization, peak values, and storage environment like IOPS.

Ultimately, it is a question of costs, which can vary by up to 80% depending on the method of the survey.

How does it work?

The data is carried out with a special tool for this use case. We have been working with MOVERE for 4 years, now this tool has been adopted by Microsoft.

The prerequisite for using this tool is to release Microsoft for this assessment. In the meantime, we have carried out over 40 projects with Movere. Company sizes ranged from 100 to 27,000 servers.

Project Scope Definition

Together we define the scope of the project. Important parameters for us are the number of data centers and the number of target systems. Are other external partners involved? e.g. an external data center operator?

Paperwork

In this phase, we clarify the costs or the assumption of the costs for this project. We are preparing a Letter of Engagement (LoE) describing the project and defining the services.
We clarify the activation of necessary licenses and agree on a common schedule.

Setup/Installation

Together, we define a suitable setup for your company in order to be able to carry out the data collection with Movere.
After completing the preparations we carried out the Movere setup through our support, remotely.

Data Collection

The system first performs an inventory of the target systems. Subsequently, performance data is collected over the previously defined period.

Reporting

After the data collection is complete, we create a final presentation where the main key points are summarized (different cost scenarios, recorded systems, other findings). In addition, we prepare a workbook. In this workbook, all systems are recorded with all the necessary information. We present the determined performance data and determine the appropriate Azure profiles.

Kickoff		Healthcheck		Analysis
	DAY 3		DAY 10	
DAY 1		DAY 4		DAY 20
	Start Asset Discovery		Review	

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Example Report

Overview & Key Metrics

Scope of Assessment: Collection & Assessment across Example Inc. infrastructure to identify key optimization potentials, and generate a dataset to support a migration strategy for Example Inc. Datacenter.

Total Servers	Windows	Linux
991	813	178
56% Inventory Coverage	58% Inventory Coverage	48% Inventory Coverage

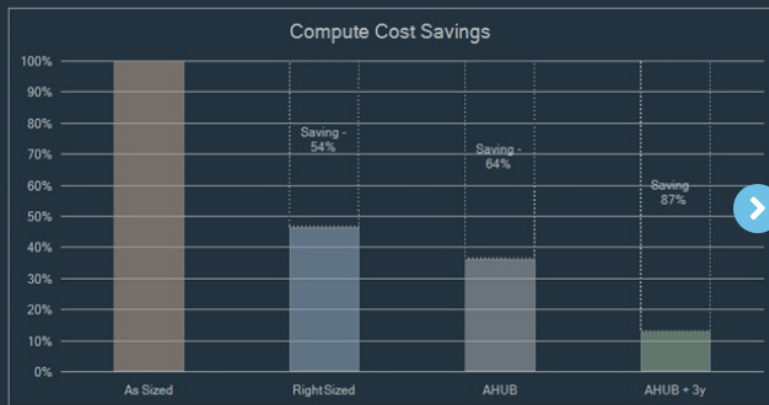| Ø CPU Utilization	Ø RAM Utilization	Total Storage(TB)
5.18 %	36.06 %	613
		44 % Storage Used

Azure Economic Modeling

The accompanying **Azure Pricing Estimates workbook** provides granular Azure billing options and pricing by workload.
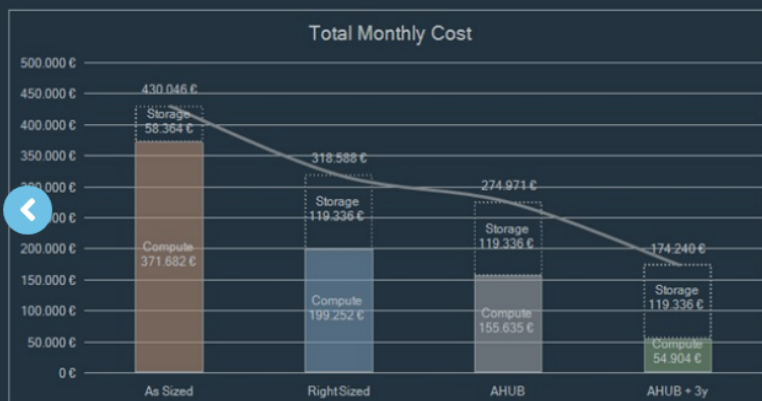
Strategic, data-driven purchasing results in significant reductions in total Azure costs.

Compare costs for:
- As-Sized Profiles
- Right-Sized Profiles
- Azure Hybrid Benefit usage
- Reserved Instance usage

Compute Cost Savings chart — As Sized (100%), Right Sized (Saving - 54%), AHUB (Saving - 64%), AHUB + 3y (Saving 87%)

Azure Cost Comparison

Total Monthly Cost:
- As Sized: 430.046 € (Storage 58.364 €, Compute 371.682 €)
- Right Sized: 318.588 € (Storage 119.336 €, Compute 199.252 €)
- AHUB: 274.971 € (Storage 119.336 €, Compute 155.635 €)
- AHUB + 3y: 174.240 € (Storage 119.336 €, Compute 54.904 €)

Assumptions: Azure Datacenter: „EU WEST"

Explanations:
As Sized: 1:1 settlement to the current infrastructure

Right Sized: Based on the current consumption with an statistic assumption of 95 percentile

AHUB: Azure Hybrid Benefit

3y: Three years reserved instance

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