

GET TO THE CLOUD EASY :-)

VM Migrations



Challenge:

The dilemma for enterprise IT organizations is needless delays in delivering new business value, the result of ever-rising technical debt bred by too many repetitive, redundant operational tasks.

Solution:

As the enterprise continues to migrate more toward increasingly granular services, all the more reason to adopt an agile, modern application development platform that is equipped to deal with evolutionary changes.

Benefits:

- Dynamic, flexible architecture that is reliable, scalable, redundant, and secure
- Leverage public, private, hybrid, or multi-cloud architectures to provide limitless opportunities
- Leverage container platforms to deploy value across environments seamlessly

JOURNEY TO THE CLOUD

The need to take a cloud approach is clear—it's no longer a question of "why" or even "when" (it's happening). You're likely going to be supporting a hybrid cloud, so you'll need to be ready to face the "what" and the "how".

WHAT TO MIGRATE? VMs TO GCP (GOOGLE CLOUD PLATFORM)

GCP and Opticca want to help you optimize the journey so you can get to the cloud easier.

VMs are a great place to start!

Moving VMs to the cloud can deliver compelling benefits quickly. Together we offer fast start solutions for customers migrating VMs to GCP—discovery assessment, planning, migration, special use cases, and more.

HOW TO MIGRATE? MIGRATION STRATEGIES

LIFT, SHIFT & OPTIMIZE

A simple approach that can yield a quantifiable ROI is to migrate your on-premise VMs to the cloud.

With Google's Compute Engine you can migrate a VM in minutes versus days. This reduces your migration costs significantly and accelerates your time-to-value.

Take the risk out of a VM migration with advanced GCP rollback features provided by GCP.

- Built-in testing makes it fast and easy to validate before you migrate
- Fast on-premises rollback provides a safety net when the unexpected happens
- Workloads that begin within minutes, downtime is minimal, up front, and predictable
- Migrate a single app with a few clicks
- Execute a migration sprint with 100 systems using migration waves
- Rightsize your cloud instances with usage-driven analytics to avoid cloud over-provisioning

LIFT, SHIFT & CONTAINERIZE

Upgrading VMs to containers, however, can provide some additional benefits for those organizations willing to make the switch.

Use Migrate for Anthos to move and convert workloads directly into containers in Google Kubernetes Engine (GKE). Target workloads can include physical servers and VMs running on-premises or in other clouds, giving you the flexibility to transform your existing infrastructure with ease.

You'll eliminate complexity and knowledge gaps that have previously held businesses back from being able to modernize.

- Containers require less system resources because they don't include operating system images
- Applications running in containers can be deployed easily to multiple different operating systems and hardware platforms
- Applications in containers will run the same, regardless of where they're deployed
- Containers allow applications to be more rapidly deployed, patched, or scaled
- Containers support agile and DevOps efforts to accelerate development, test, and production cycles

KICKSTART YOUR MOVE TO THE CLOUD

Many organizations struggle working out where to begin, but the advice here is relatively straightforward. Start with something significant enough to deliver benefits, but simple enough to get done quickly. Taking small steps that accumulate and gather momentum is the most effective way to achieve migration at scale.

With Opticca's **VM Kickstart Program** you will migrate VMs to the cloud quickly, easily, and with little risk while optimizing your ROI.

VM KICKSTART PROGRAM

Assess

The Assess phase will help uncover the existing workloads that will need to be migrated, and the information necessary to determine migration type, level of effort, and application groups.

The goal here is to understand what you have, and what VMs can be migrated.

Our automated discovery solution (no agents are used) allows us to gather an inventory for the whole estate in one go. It also enables us to produce firm ROI figures that will help you justify moving to the cloud. Finally, it will allow us to understand your current environment, and even identify challenging VMs, all before you make any investment.

Plan

The Plan phase is designed to plan and build your foundational GCP “landing zone”, pilot and validate the migration approach while aligning on the long-term roadmap.

Opticca, will design and plan what can move, what should

move, and in what order for a solution which covers key business and technical requirements for all application types including test, development, and production.

Additionally, we will lay the groundwork for monitoring and billing enabling the appropriate resources the tools they need to understand cloud costs.

GCP is the destination where these things migrate to, and which are often modernized/optimized in-cloud afterwards.

Migrate & Optimize

The Migrate phase is where a detailed path of requirements document for establishing a plan for the first migration wave and get started is performed.

The focus is on velocity, reliability and repeatability, minimal toil [maximum automation] and ability to revert or fall back if needed.

The Optimize phase allows you to update and fully exploit the cloud. Opticca, will develop a detailed approach to optimize your operations and save on costs with methodologies of pre-migration rightsizing, GCE custom machines types, and post migration-migration rightsizing.

DELIVERABLES

ASSESS	PLAN	MIGRATE & OPTIMIZE
<ul style="list-style-type: none"> • Inventory of your existing infrastructure • Build an understanding of the application landscape and your business case • Assess dependencies and risks • Prioritize applications • Migration approach analysis • Choose a cloud deployment model and provider • Effort estimation • TCO and ROI • Formulation of a roadmap toward the target state • Use cases and Proof-of-Concept (POC) 	<ul style="list-style-type: none"> • Plan migration as small workloads • Test and deploy • Monitor log and performance • Assimilate learnings and apply to next migration • Identify key networking, security controls and technologies • Prioritize critical path dependencies, risks and constraints • Align key stakeholders, lines of business on roadmap, success criteria and resources • Security and governance control objects (PCI and SOX) 	<ul style="list-style-type: none"> • Operate cloud environment with continuous monitoring • Monitor your applications and optimize performance in their new environment • Make periodic enhancements to take advantage of new functionalities introduced by the cloud provider • Post migration audit readiness • Security and governance controls implementation • VM migration production cutover • Integrate to cloud environment

WHAT ARE NEXT STEPS? FREE ASSESSMENT

The key to our VM Kickstart Program is the Assessment. Deliverables include an accurate ROI, an inventory of your current infrastructure, and of course a suitable migration plan. You now have all the knowledge you need to realize if a VM migration is right for your organization.

Speak to us to see if you're eligible for a free assessment. Reach out to Ivan Cardona at [514] 316-4770 or icardona@opticca.com for learn more.

ABOUT OPTICCA

Opticca Consulting delivers revolutionary platforms that enable our clients to outperform their competition. We help our clients speed up application development and deliver value faster than ever before by adopting architectures using DevOps, Containers and Microservices, as well as supporting Automation and CI/CD pipelines. Our extensive partner network helps us drive collaboration and leverage technology independence. We've built a team of passionate technologists who truly care about achieving quality outcomes, building lasting relationships, and delivering on what we promise - every client is a reference.

For more information, visit: www.opticca.com

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