OPTIMAL WORKLOAD PLACEMENT FOR PUBLIC, HYBRID, AND PRIVATE CLOUDS

No single cloud model or set of services is perfect for every organization. It all depends on the workload, an application or group of applications that deliver a specific business function. It’s important to position workloads for the optimal architecture, whether it be a public, hybrid, or private cloud. In other words, optimized workloads will likely be distributed across both public and private clouds.

The following workload placement decision framework can help you determine which solution best aligns with your business and technical needs.

**STEP 1: BUSINESS NEEDS**

Begin with the primary business need and use cases that your organization is working to address. Consider the attributes below to determine where each workload component should be deployed. Strategies that optimize workloads help determine hybrid cloud placement.

**Attributes**

- **Agility**
- **Threats to Plan:**
- **Organizational Size:**
- **Service Level Agreement Holisticity**
- **Global Reach and Business Resilience**

**Hybrid Cloud**

- Agility and Time to Market
- Service Level Agreement (SLA) Holisticity
- Global Reach and Business Resilience
- Organization Size
- Threats to Plan

**Public Cloud**

- Agility and Time to Market
- Service Level Agreement (SLA) Holisticity
- Global Reach and Business Resilience
- Organization Size
- Threats to Plan

**Private Cloud**

- Agility and Time to Market
- Service Level Agreement (SLA) Holisticity
- Global Reach and Business Resilience
- Organization Size
- Threats to Plan

**STEP 2: TECHNICAL CHARACTERISTICS**

In 2016, Intel conducted over 125 customer and systems integrator focus groups worldwide across many industries. The results identified nine important technical characteristics that help determine cloud workload placement: performance, security, migration, and data volume.

**Intel® Affinity Model for Workload Placement**

![Intel® Affinity Model for Workload Placement](image)

**STEP 3: ECO SYSTEM CONSIDERATIONS**

Determine if a mature software-as-a-service (SaaS) solution exists, if a cloud service provider (CSP) provides services that can immediately address your needs, if there is a lack of industry expertise readily accessible to your organization.

**Cloud Offering Maturity**

- **Public Cloud**
- **Private Cloud”

**Cloud Solution Providers Services**

- **Public Cloud**
- **Private Cloud”

**Cloud Expertise Availability**

- **Public Cloud”
- **Private Cloud”

You may also find the following resources useful:

- **Optimal Workload Placement for Public, Hybrid, and Private Clouds white paper**
- **Maximizing Cloud Advantages through Cloud-Aware Applications white paper**
- **How to Migrate Applications to the Cloud white paper**