

CHECKLIST

Considerations for optimizing hybrid cloud workload placement

FACTORS DETERMINING WORKLOAD PLACEMENT

Adopting a consistent hybrid cloud allows your business and application requirements to determine the environment in which a workload runs. As you evaluate each unique workload for placement, what characteristics should affect your decisions? In a recent IDC survey¹, respondents deemed these aspects to be most critical for workload placement:



Security



Performance



Management considerations



Availability



Cost

¹Source: IDC's Modernized Infrastructure Survey 2020

PUBLIC OR PRIVATE?

Use the following checklist to determine whether a public or private environment is optimal for your workload.

- SECURITY
Determine the security needs of each workload

Public cloud security measures should be as dynamic as the environments they protect. Keep workloads that have robust security and compliance needs in a private cloud.

- PERFORMANCE
Define the performance requirements for each workload

By understanding each workload's unique performance criteria and the impact of data gravity, data locality, and latency, you can determine how the placement of these workloads will influence its relative performance.

- MANAGEMENT CONSIDERATIONS
Evaluate different deployment models

Evaluate different deployment models for frequent use and establish consistent operations to minimize the complexity of different management experiences across public and private clouds.

- AVAILABILITY
Assess availability requirements for each application

The public cloud is great for applications that require up to "four nines" of availability, but those in need of higher availability should look to private clouds for placement.

- COST
Understand how different deployment models affect the bottom line

Implement OpEx consumption models across all environments. Run workloads that won't benefit from cloud economics in your private cloud. Understand which workloads will trigger ingress/egress fees and place them accordingly.

Choose the best environment for your workloads with Dell Technologies

The security, performance, management capabilities, availability, and cost of public and private environments affect each unique workload in different ways. By understanding these factors, you can strategically place workloads and craft a successful cloud strategy.

Dell Technologies, Intel, and VMware can help you better align your workloads across public, private, and edge environments by delivering a consistent hybrid cloud.

Read the full IDC white paper to learn more

¹Based on IDC white paper commissioned by Dell Technologies, Intel, and VMware, "Optimizing Workload Placement in your Hybrid Cloud", July 2020. Actual results will vary. Full report: <https://www.dell EMC.com/resources/en-us/asset/analyst-reports/solutions/idc-optimizing-workload-placement-in-your-hybrid-cloud.pdf>