WMA – Workload Migration Assessments

The Workload Migration Assessments from TD SYNNEX and AWS gives companies the ability to evaluate cost versus usage before migration begins. It allows new and existing AWS customers to assess and optimize current on-premises and cloud environments, based on their actual resource utilization, third-party licensing and application dependencies.

Licensing

Microsoft workload assessment
Ensure the necessary licenses for software and applications are compliant when migrating to AWS.

- Evaluate if the existing licenses can be transferred to AWS.
- Ensure that software licenses can be optimized in the cloud to avoid over-provisioning or unnecessary costs.
- For workloads using third-party software, review vendor policies on running software in the cloud and the specific licensing requirements for cloud environments

Storage

Evaluate storage needs during the migration process, ensuring compatibility, scalability, and cost-effectiveness in the AWS cloud environment.

Current Storage Architecture: Assess the existing storage architecture (e.g., NAS, SAN, or file systems) and determine how it will map to AWS storage services such as Amazon S3, Amazon EBS, Amazon EFS, and Amazon FSx.

Data Migration Strategy: Plan for moving large volumes of data to AWS efficiently. Tools like AWS Snowball or AWS DataSync may be used for large-scale data transfers
Data Redundancy and Backup: Review strategies for data backup, disaster recovery, and high availability in AWS.

Cost Optimization: Evaluate AWS storage pricing models and the most cost-effective options (e.g., using S3 for archival or lifecycle policies).

Cloud Readiness

Assess whether the existing infrastructure and applications are ready to be migrated to AWS and fully utilize cloud-native capabilities
Application Compatibility: Determine if applications require re-architecting, refactoring, or re-platforming to be compatible with AWS. This is often based on the cloud adoption model (e.g., rehosting, replatforming, or refactoring).
Security and Compliance: Ensure that the migration follows security and compliance frameworks required by the business, like GDPR, HIPAA, or industry-specific regulations.
Networking and Connectivity: Evaluate the existing network infrastructure and how it will connect to AWS. Consider using AWS Direct Connect, VPNs, or hybrid architectures.
Cost Management: Identify the cost implications of migrating workloads to AWS and establish tools such as AWS Cost Explorer to manage and optimize ongoing expenses.

Cloud 2 Cloud
Azure to AWS

Move workloads from Azure to AWS while maintaining business continuity and minimizing disruptions.

Assessment of Azure Workloads: Review workloads in Azure, including virtual machines (VMs), databases, applications, and storage to determine compatibility and dependencies.

Migration Tools: AWS provides several tools for cloud-to-cloud migrations, such as the **AWS Migration Hub**, **AWS Application Migration Service (MGN)**, and **AWS Database Migration Service (DMS)** to simplify moving from Azure to AWS.

Re-architecting and Optimization: Azure workloads may need to be adjusted for AWS-specific **Cost and Resource Allocation**: Assess the potential costs and optimization opportunities in AWS, ensuring a clear understanding of billing models and resource allocation between the two clouds.

VMware

Migrate VMware-based workloads to AWS, preserving VMware tools, applications, and virtual machines.

VMware on AWS: Utilize AWS's specialized service called **VMware Cloud on AWS**, which enables running VMware environments natively on AWS infrastructure.

VMware Workload Assessment: Evaluate the current VMware environment, including virtual machines (VMs), networking, and storage configurations, to determine the best migration strategy.

Migration Tools: Use the **AWS Server Migration Service (SMS)** or **AWS Migration Hub** to automate and manage the VMware to AWS migration process.

Hybrid Cloud Solutions: For hybrid scenarios, consider using VMware HCX (Hybrid Cloud Extension) for seamless migration between on-premises VMware environments and AWS.