AWS Application Migration

Definition of Application Migration To AWS

- Application Migration to AWS Entire application stack and its dependencies are migrated to AWS together
- AWS provides several services like AWS Application Discovery service, Total Cost of Ownership tool, 6R Migration Strategy and Migration Hub which helps to carry out Migration in a secure, timely and economical way.

Application Migration

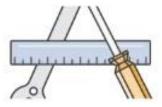
- Lack of proper discovery tools and processes
- O2 System Downtime issues
- Limited Server & Application Inventory details
- 04 Bandwidth required for Migration
- Dependencies & Security issues

Migration Bubble Components

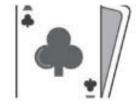
The Migration Bubble – Components



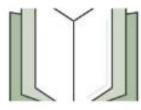
Planning and assessment



Migration tools



Consulting partners



Internal training



Duplicate environments



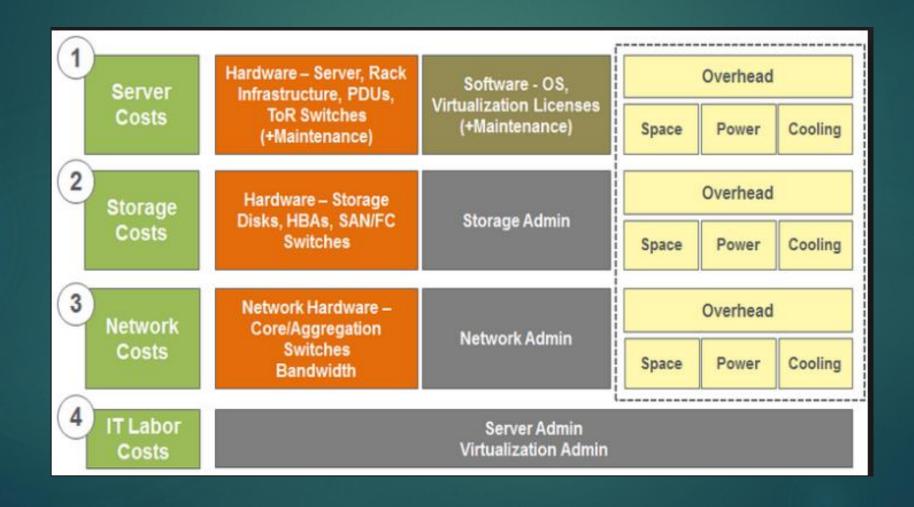
Lease penalties

Migration Bubble Components

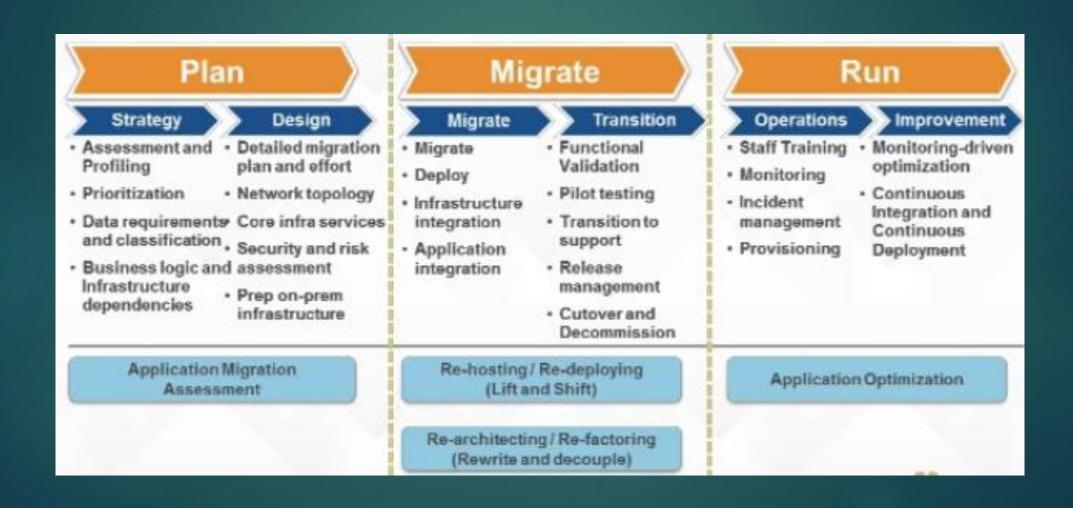
- When planning to migrate Applications to AWS Cloud, the below considerations must be taken by Organizations for analyzing time and cost.
 - Planning and assessing
 - Duplicating environments
 - Bringing current staff up to speed
 - Hiring necessary talent
 - In-depth consulting
 - Conducting third-party tooling
 - Reviewing lease penalties



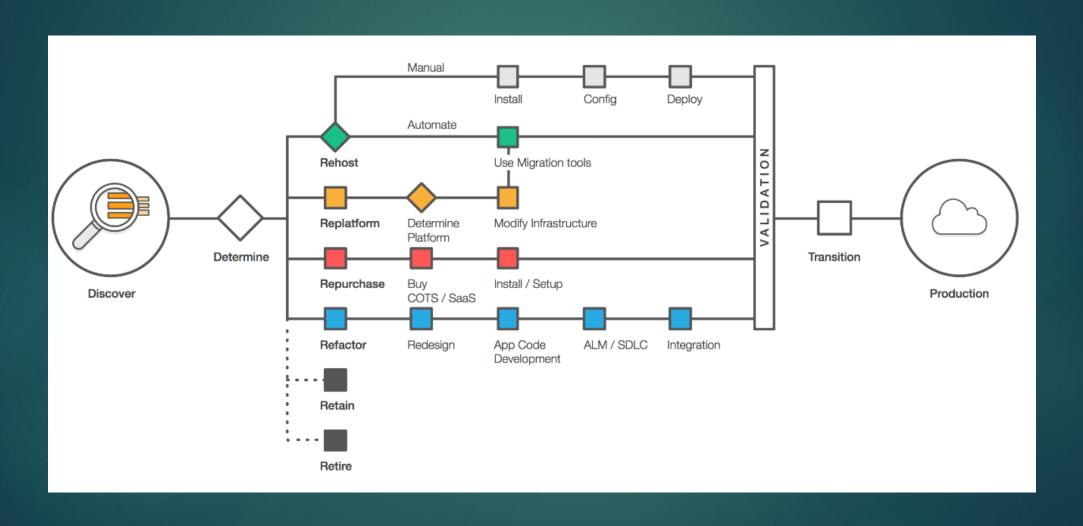
On-Premises Cost Considerations (TCO)



Application Migration Methodology



6R Application Migration Strategy



Application Discovery Service

AWS Application Discovery Service

Collect data about servers in your data centers including system specification, performance, dependencies, and other useful information. Learn more



Discover servers

Identify servers hosted in data centers



Measure performance

Collect CPU & RAM utilization and disk I/O



Capture dependencies

Discover network communications between servers

Start discovery

AWS Discovery Tools



To collect system specification and performance information for all VMs in one vCenter, deploy an AWS Agentless Discovery Connector (Discovery Connector) in each VMware vCenter. Deployment is simple and helps you quickly collect info about your VMs.



To collect system specification, performance, processes, and network dependencies, install an AWS Application Discovery Service Agent (Discovery Agent) on each of your VMs or physical servers.

Pre-requisite for Windows Agent:

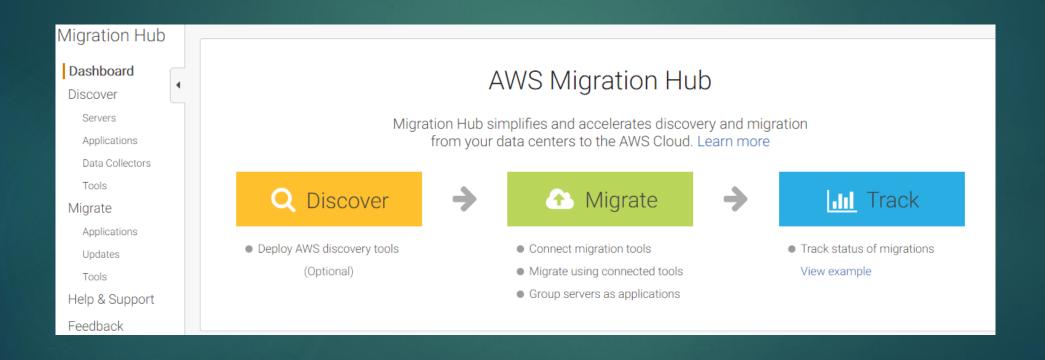
Microsoft Visual C++ Runtime for x86 (vc_redist.x86.exe)

Agent and Agentless Server Discovery

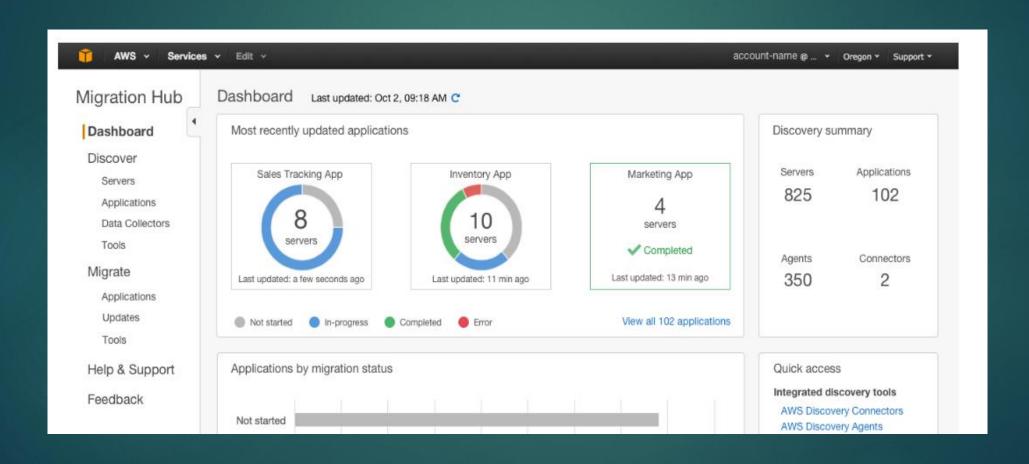
- Agentless Service Discovery
 - > No agent needs to be deployed.
 - Virtual Appliances are installed on vCenter Server (On-Premises)environment.
 - > Discovers performance information and resource utilization of each Virtual Machine.

- Agent Based Service
 - Agent runs on hosts On-Premises hosts
 - Discovers server consumption data, stores it locally and then uploads to Application Discovery Service.
 - Supports both VMware and Hyper-V platforms

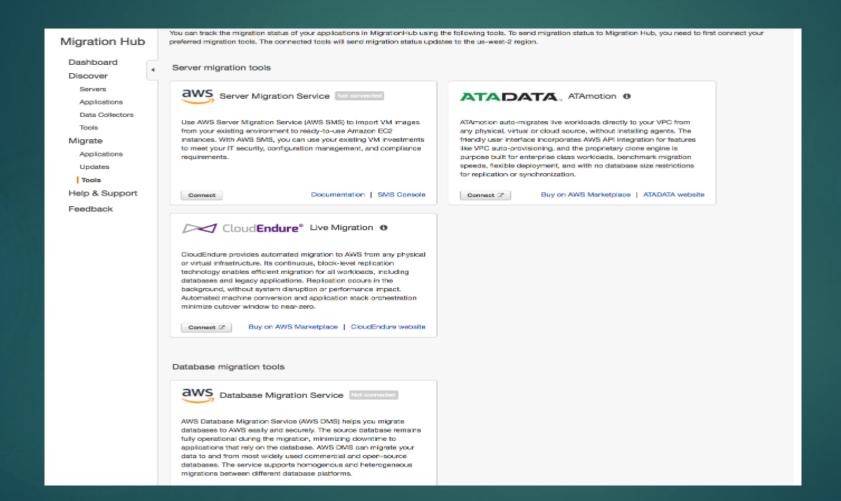
AWS Migration Hub



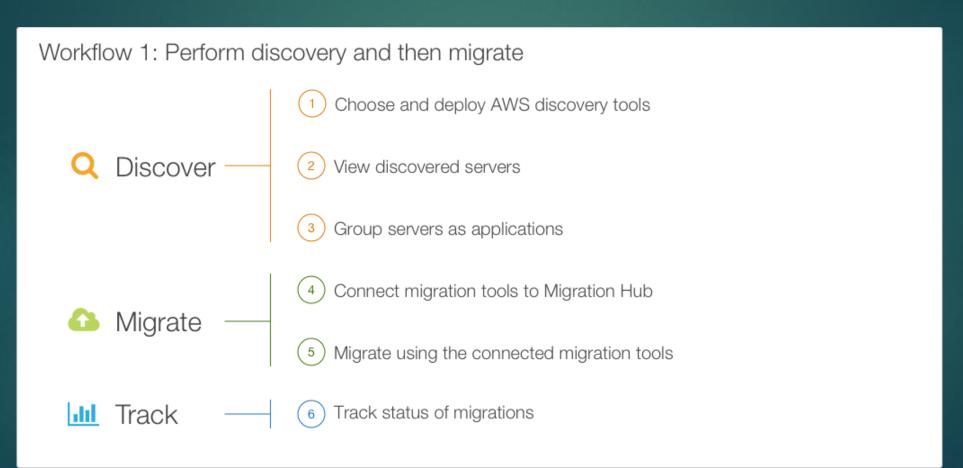
Application Migration Tracking



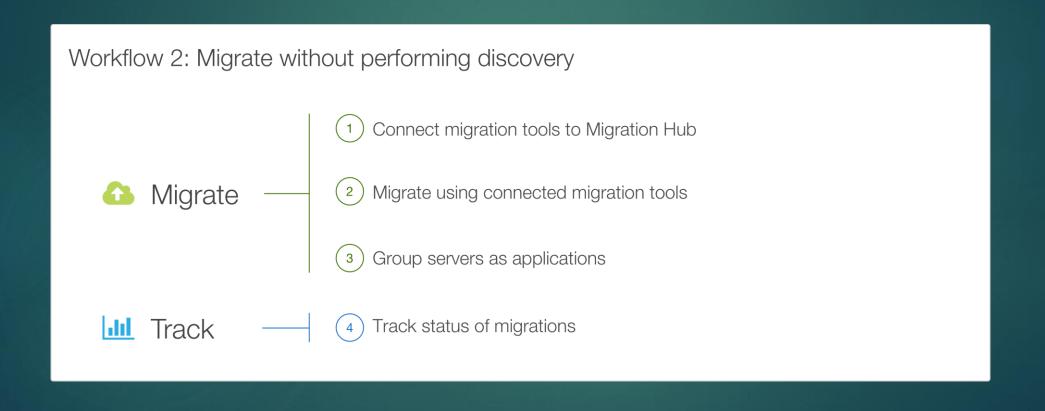
Migrating Tool Integration



Migrating Applications using Discovery tools



Migrate Applications without Discovery



THANK YOU