VMware Cloud™ on AWS - Reference Architecture

This Reference Architecture highlights the value of extending an On-Premises architecture and procedures to VMware Cloud on AWS for operational consistency of end-to-end services while leveraging Native AWS innovation.

1. Deploy Networking and Security Services
   - Layer 3 VPN (IPSec) = Policy-Based / Dynamic Routing
   - Layer 2 VPN = Maintain IP Address during Migration
   - Leverage Native AWS Network and Security Services (i.e. Direct Connect)
   - Enable Hybrid Virtual Mode (HVM) for Operational teams to have a Common User Interfaces for Support
2. Link the Content Library Services in order have a Common Image/Template Repository.
3. Migrate with Hybrid Cloud Extension (HCO) Service
   - Managed “as-a-Service” Solution
   - Automates Layer2VPN Extension to VMware Cloud
4. Migrate VM’s via vMotion Services
   - Consistent Operational Model as On-Premises
   - Live / Cold Migrations Supported
5. Leverage Disaster Recovery “as a Service”
   - Based on Site Recovery Manager (SRM)
   - Automates Runbook Failover/Failback
6. Determine Need for Data Migration Services
7. Verify if Data Protection Services are Required
8. Determine Location of Infrastructure Services
   - Self-Managed (On-Premises, VMware Cloud on AWS)
   - Managed Platform (Native AWS)
9. Operational Services
   - vRealize Suite (vRA, vRO, vROps)
   - Automate VM Deployment in VMC with vRA Proxy
10. Forward Logging Details between AWS CloudTrail, Log Intelligence, and Log Insight (On-Premises)
11. Expand Management and Governance Services
    - CloudHealth – Multiple Cloud Services
    - CloudWatch – Native AWS
13. Review the Available Native AWS Services that can be leveraged in the Current Cloud Environment

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