How to create a service package in MAS and publish to VMware NSX?

Introduction:

One of the key components of NSX, Edge gateway provides gateway services such as DHCP, VPN, NAT, dynamic routing, and Load Balancing. Common deployments of NSX Edge include multi-tenant Cloud environments where the NSX Edge creates virtual boundaries for each tenant.

To support Multi-tenancy in NSX environment i.e. to allocate different NetScaler resources to different edge gateways the service package mechanism of MAS orchestration can be leveraged.

Service Package in NetScaler MAS is a set of SLAs which define the way NetScaler resources have to be allocated. Below are the supported SLA’s for NSX use cases.

1. Consumption Model
   a. Dedicated NetScaler
2. Provisioning type
   a. Auto-provision NetScaler
   b. Pre-provisioned NetScaler
3. NetScaler Device Type
   a. VPX on ESX

In the below section we will see the process of creating a service package and publishing the same to NSX.

Assumptions:

1. NetScaler MAS and VMware NSX are registered to establish bi-directional communication.
2. NetScaler VPX image is uploaded to NetScaler MAS
3. NetScaler VPX licenses are uploaded to MAS.

Step1: In NetScaler MAS, Go to Orchestration, SDN orchestration, VMware NSX Manager, Service Packages and click Add to add new Service Package
Step 2: Provide name for Service Package, isolation policy is selected as Dedicated by default, enable Auto provision platform, VMware ESX is selected by default and click continue.

Step 3: Select the VPX image, select the License, fill the vCPUs and memory and click Continue.
Step 4: Verify the details and click continue.

Step 5: Click Done to publish the service package to NSX

Step 6: To verify in VMware vSphere web client, go to Networking & Security, service definitions, services, find an entry with the same name as service package.