



# Containers

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# APIC Container L4 L7 Service Info Wrapper

## Summary

L4 L7 Service Info wrapper.

## Description

## Inputs

Input	Description	Mappable To Type	Mandatory
L4 L7 Id String		gen_text_input	

## Outputs

Output	Description	Type
PrimaryL4L7Identity	Primary L4 L7 Identity	Container L4 L7 Service
PrimaryContainerId	Primary Container ID	ServiceContainer
DREnabled	DR Enabled	Boolean
SecondaryL4L7Identity	SecondaryL4L7Identity	Container L4 L7 Service
SecondaryContainerId	SecondaryContainerId	ServiceContainer

# APICContainerDRMappingWrapper

## Summary

Wrapper for getting required information for creating SRM mappings for DR

## Description

## Inputs

Input	Description	Mappable To Type	Mandatory
PRIMARY_SERVICE_CONTAINER_ID		ServiceContainer	
SECONDARY_SERVICE_CONTAINER_ID		ServiceContainer	

## Outputs

Output	Description	Type
PRIMARY_CONTAINER_VMS		gen_text_input
PRIMARY_CONTAINER_TIERS		gen_text_input
PRIMARY_POOL_IDENTITY		vmwareResourcePoolIdentity
SECONDARY_POOL_IDENTITY		vmwareResourcePoolIdentity
PRIMARY_CONTAINER_VMS_COUNT		gen_text_input
SRM_PROTECTION_GROUP_IDENTITY		vmwareSRMProtectionGroupIdentity
VMS		multiVM
PRIMARY_FOLDER_IDENTITY	Primary Container Folder Identity	VMwareFolderIdentity
SECONDARY_FOLDER_IDENTITY	Secondary Container Folder Identity	VMwareFolderIdentity
PG_IDENTITIES	Port Group Identities	gen_text_input

# APICContainerInfoWrapper

## Summary

Wrapper task for providing necessary information for container L4 L7 Services, SRM related settings for container etc

## Description

### Inputs

Input	Description	Mappable To Type	Mandatory
CONTAINER_ID		ServiceContainer	
VMS		gen_text_input	
Primary L4L7 Service		Container L4 L7 Service	

### Outputs

Output	Description	Type
IS_DR_ENABLED	IS_DR_ENABLED	Boolean
VMS_ID_LIST	VMS	multiVM
SRM_PROTECTION_GROUP_IDENTITY		vmwareSRMProtectionGroupIdentity
SECONDARY_CONTAINER_ID	Secondary Container ID	ServiceContainer
SECONDARY_L4L7_SERVICE_ID	SECONDARY_L4L7_SERVICE_ID	Container L4 L7 Service
L4L7_SERVICE_INFO_IDS_FOR_ITERATIONS	L4L7_SERVICE_INFO_IDS_FOR_ITERATIONS	gen_text_input

# APIC\_L4L7\_ASAv\_Network\_VLAN\_Info

Summary  
Description  
Inputs

Input	Description	Mappable To Type	Mandatory
Service Container		ServiceContainer	
VM_NAME		gen_text_input	
Tier1_BD		gen_text_input	
Tier2_BD		gen_text_input	

Outputs

Output	Description	Type
VM_IDENTITY		vm
OUTPUT_ASAV_VLAN1		vlanID
OUTPUT_ASAV_VLAN2		vlanID
SP_VNICs		ucsServiceProfileMultivNICIdentity
UCS_Account		ucsAccountIdentity

# ConvertSecurityRuleTextToIdentity

## Summary

## Description

## Inputs

Input	Description	Mappable To Type	Mandatory
SecurityRule		gen_text_input	

## Outputs

Output	Description	Type
SecurityRuleIdentity		SecurityRuleIdentity

# CreateAPICContainerFolder

## Summary

Create Container Folder on vCenter if not exists already otherwise returns the existing folder id.

## Description

### Inputs

Input	Description	Mappable To Type	Mandatory
Service Container Id		ServiceContainer	

### Outputs

Output	Description	Type
FolderIdentity	Folder Identity	gen_text_input

# Get APIC Container Free Infra IP And Mask

## Summary

## Description

## Inputs

Input	Description	Mappable To Type	Mandatory
Service_Container		ServiceContainer	

## Outputs

Output	Description	Type
IP		gen_text_input
IP_MASK		gen_text_input
Gateway		gen_text_input



# Get APIC Container LB SNIP IP

## Summary

## Description

## Inputs

Input	Description	Mappable To Type	Mandatory
Service_Container		ServiceContainer	
Tier		gen_text_input	
IsServiceChain		gen_text_input	
ArmMode		gen_text_input	
Multiple_Service_Chain_Type		gen_text_input	Y

## Outputs

Output	Description	Type
INTERNAL_IP		gen_text_input
INTERNAL_IP_MASK		gen_text_input
IsSNIPConfigRequired	IsSNIPConfigRequired	gen_text_input

# Get APIC Container LB VIP

## Summary

## Description

## Inputs

Input	Description	Mappable To Type	Mandatory
Service_Container		ServiceContainer	
Tier		gen_text_input	
ArmMode		gen_text_input	
ServiceName		gen_text_input	
isServiceChain		gen_text_input	

## Outputs

Output	Description	Type
VIP_OUTPUT		gen_text_input
VIP_MASK		gen_text_input
VIP_NETWORK_IP		gen_text_input
isVIPRequired	isVIPRequired	gen_text_input

# Get APIC Container PG Identities Wrapper

## Summary

## Description

## Inputs

Input	Description	Mappable To Type	Mandatory
PRIMARY_SECONDARY_IDENTITY_STRING		gen_text_input	

## Outputs

Output	Description	Type
PrimaryContainerPGIdentity	PrimaryContainerPGIdentity	VMwareDVPortgroupIdentity
SecondaryContainerPGIdentity	SecondaryContainerPGIdentity	VMwareDVPortgroupIdentity
PrimaryContainerPGType	PrimaryContainerPGType	portGroupType
SecondaryContainerPGType	SecondaryContainerPGType	portGroupType

# Get APIC Container Tier Type

## Summary

## Description

## Inputs

Input	Description	Mappable To Type	Mandatory
Service_Container		ServiceContainer	
Tier_Name		gen_text_input	

## Outputs

Output	Description	Type
Tier_Type		gen_text_input

# Get Cloud Type From Container

## Summary

Get Cloud Type From Container

## Description

## Inputs

Input	Description	Mappable To Type	Mandatory
Service_Container		ServiceContainer	

## Outputs

Output	Description	Type
Cloud_Type	Cloud_Type	gen_text_input

# Get Container Info

## Summary

Provides Tenant, Private Network, Contract, Subject, Service Graph Identities

## Description

## Inputs

Input	Description	Mappable To Type	Mandatory
Service Container		ServiceContainer	Y
Consumer Tier		gen_text_input	Y
Provider Tier		gen_text_input	Y

## Outputs

Output	Description	Type
TenantIdentity		ApicDeviceTenantIdentity
PrivateNetworkIdentity		ApicDeviceTenantPrivateNetworkIdentity
ContractIdentity		ApicDeviceTenantContractIdentity
ContractSubjectIdentity		ApicTenantContractSubjectIdentity
ServiceGraphIdentity		ApicDeviceTenantServiceGraphIdentity
ProviderTier	Provider Tier Name	gen_text_input
ConsumerTier	ConsumerTier Name	gen_text_input
ContainerName		gen_text_input
ProviderEPGIdentity		ApicDeviceTenantEPGIdentity
ConsumerEPGIdentity		ApicDeviceTenantEPGIdentity
ServiceGraphNodeIdentity		ApicTenantL4L7ServiceGraphNodeIdentity
LBSubnetPolicyID		IPSubnetPoolPolicy
LBSubnetIdentity		gen_text_input
ServiceName		gen_text_input

# Get L4L7 Device Deployment Info

## Summary

Determine if the mgmt ip, mask etc should be used from L4L7 Info wrapper or from deploy workflow.

## Description

Determine if the mgmt ip, mask etc should be used from L4L7 Info wrapper or from deploy workflow.

## Inputs

Input	Description	Mappable To Type	Mandatory
Mgmt IP		gen_text_input	
DeployMgmtIP		gen_text_input	
MgmtPort		gen_text_input	
DeployMgmtPort		gen_text_input	
UserName		gen_text_input	
DeployUserName		gen_text_input	
Password		password	
DeployPassword		password	
VMName		gen_text_input	
SecondaryVMName		gen_text_input	
DeployASAv		gen_text_input	
ServiceType		gen_text_input	
DeviceType		gen_text_input	
SecMgmtIP		gen_text_input	
DeploySecMgmtIP		gen_text_input	
Cluster IP From Wrapper		gen_text_input	
ClusterUserNameFromWrapper		gen_text_input	
ClusterPasswordFromWrapper		password	
ContextAware		gen_text_input	
DepVMName		gen_text_input	
SecDepVMName		gen_text_input	
ClusterIP_Deployed		gen_text_input	
ClusterUserName_Deployed		gen_text_input	
ClusterPassword_Deployed		password	

**Outputs**

<b>Output</b>	<b>Description</b>	<b>Type</b>
ManagementIP	ManagementIP	gen_text_input
ManagementPort	ManagementPort	gen_text_input
Username	UserName	gen_text_input
UserPassword	Password	password
VirtualMachineName	VMName	gen_text_input
SecVirtualMachineName	SecVirtualMachineName	gen_text_input
SecManagementIP	SecManagementIP	gen_text_input
APICServiceType	APICServiceType	gen_text_input
ClusterIP		gen_text_input
ClusterUserName		gen_text_input
ClusterPassword		password



# Get LB Server Details

Summary  
Description  
Inputs

Input	Description	Mappable To Type	Mandatory
IPv46		gen_text_input	Y
Provider EPG Identity		gen_text_input	Y
Service Graph Node Identity		gen_text_input	Y
Contract Name		gen_text_input	Y

Outputs

Output	Description	Type
lbVserver	lbVserver	gen_text_input
L4L7Element	L4L7 Element	ApicTenantL4L7ParameterIdentity
L4L7ElementParameter	L4L7 Element Parameter - lbserver	ApicTenantL4L7ParameterValues Identity
ParamName	Param Name	gen_text_input
L4L7LbMenthodParam	L4L7 Lb Menthod Parameter	ApicTenantL4L7ParameterValues Identity
L4L7PersTypeParam	L4L7 Persistence Type Parameter	ApicTenantL4L7ParameterValues Identity
lbServerParamValue	LB Server Name Parameter Value	gen_text_input
LbMethodKey	lbmethod	gen_text_input
PersistenceTypeKey	persistencetype	gen_text_input
CookieKey	cookiekey	gen_text_input
L4L7CookieParam	CookieName	ApicTenantL4L7ParameterValues Identity
L4L7ElementParamSG		gen_text_input
L4L7PortParam		ApicTenantL4L7ParameterValues Identity
PortKey		gen_text_input
L4L7PortParam1		ApicTenantL4L7ParameterValues Identity
SGBindingFoldNames	Service Group Binding Folder Names	gen_text_input

<b>Output</b>	<b>Description</b>	<b>Type</b>
ServiceGraphName	Service Graph Name	gen_text_input
ContractNameOut	Contract Name	gen_text_input

# GetACLIdentityToDelete

## Summary

Checks and returns ACL identity of the acl to be deleted.

## Description

Checks and returns ACL identity of the acl to be deleted.

## Inputs

Input	Description	Mappable To Type	Mandatory
L4L7Identity		gen_text_input	
ACLName		gen_text_input	
ACENAME		gen_text_input	

## Outputs

Output	Description	Type
isACLToBeDeleted	isACLToBeDeleted	Boolean
ACLIdentity	ACL Identity	ApicTenantL4L7AclEPGIdentity
InterfaceIdentity	InterfaceIdentity	ApicTenantL4L7EPGInterfaceIdentity
InBoundACL	InBoundACL	gen_text_input
OutBoundACL	OutBoundACL	gen_text_input

# GetApicContainerACEIdentity

## Summary

Generates ACE identity using L4L7Id and ACE Name.

## Description

Generates ACE identity using L4L7Id and ACE Name.

## Inputs

Input	Description	Mappable To Type	Mandatory
L4L7Id		Container L4 L7 Service	
ACE Name		gen_text_input	

## Outputs

Output	Description	Type
ACEIdentity	ACEIdentity	ApicTenantL4L7EPGAceIdentity
ACLName	ACL Name	gen_text_input

# GetL4L7DeviceArmMode

## Summary

## Description

## Inputs

Input	Description	Mappable To Type	Mandatory
ServiceType		gen_text_input	
MultipleServiceType		gen_text_input	
OrigArmMode		gen_text_input	

## Outputs

Output	Description	Type
Custom_ArmMode	Custom_ArmMode	gen_text_input

# GetMSPAdminEmailAddresses

## Summary

Retrieves MSP Admins for given tenant.

## Description

Retrieves MSP Admins for given tenant.

## Inputs

Input	Description	Mappable To Type	Mandatory
Tenant		ApicDeviceTenantIdentity	Y

## Outputs

Output	Description	Type
MSPOrgAdminEmails	MSPOrgAdminEmails	email_address_list

# GetResourceRequirementFromThroughput

## Summary

Reterives vCPU and Memory requirement for L4L7 Devices

## Description

Reterives vCPU and Memory requirement for L4L7 Devices

## Inputs

Input	Description	Mappable To Type	Mandatory
containerId		ServiceContainer	

## Outputs

Output	Description	Type
ASAv_vCPU	ASAv_vCPU	gen_text_input
VPX_vCPU	VPX_vCPU	gen_text_input
VPX_Memory	VPX_Memory	gen_text_input
DeploymentOption	DeploymentOption	gen_text_input

# GetTargetsForLBParamConfiguration

## Summary

This task finds out any existing service chain configuration details.

## Description

### Inputs

Input	Description	Mappable To Type	Mandatory
Container		ServiceContainer	
ArmMode		gen_text_input	
ProviderEPG		ApicDeviceTenantEPGIdentity	
APICContractIdentity		ApicDeviceTenantContractIdentity	
ServiceGraphNodeIdentity		ApicTenantL4L7ServiceGraphNodeIdentity	
ServiceChain		gen_text_input	

### Outputs

Output	Description	Type
TierToConfigureEPG		gen_text_input
EPGIdentity		ApicDeviceTenantEPGIdentity
ContractIdentity		ApicDeviceTenantContractIdentity
SGNodeIdentity		ApicTenantL4L7ServiceGraphNodeIdentity
ExistingSNIP		gen_text_input
ExistingChainedFWNode		ApicTenantL4L7ServiceGraphNodeIdentity
SSLSGNodeIdentity	SSLSGNodeIdentity	ApicTenantL4L7ServiceGraphNodeIdentity
SSLContractIdentity	SSLContractIdentity	ApicDeviceTenantContractIdentity
SSLExistingFWNodeIdentity	SSLExistingFWNodeIdentity	ApicTenantL4L7ServiceGraphNodeIdentity



# Get\_APIContainerL4L7DefinitionForPrivateNetwork

## Summary

## Description

## Inputs

Input	Description	Mappable To Type	Mandatory
Service Container		ServiceContainer	
Index		gen_text_input	

## Outputs

Output	Description	Type
Tier_1		gen_text_input
Tier_2		gen_text_input
Services		gen_text_input
LBServers		gen_text_input
Arm_Mode		gen_text_input
IsMultipleServices		gen_text_input
Multiple_Service_Type		gen_text_input
ServiceName	ServiceName	gen_text_input

# Get\_APIContainerL4L7ServiceForProtocol

## Summary

## Description

## Inputs

Input	Description	Mappable To Type	Mandatory
Service Container		gen_text_input	
Service Name		gen_text_input	

## Outputs

Output	Description	Type
Protocol_Type		gen_text_input
Port		gen_text_input

# IsFWLBSingleArmChainExist

## Summary

This task finds out any existing service chain configuration details.

## Description

### Inputs

Input	Description	Mappable To Type	Mandatory
Container		ServiceContainer	

### Outputs

Output	Description	Type
FWLBChainExist		gen_text_input

# Trigger APIC Container - DR Site

## Summary

### Description

### Inputs

Input	Description	Mappable To Type	Mandatory
Container_Name		gen_text_input	Y
Container_Label		gen_text_input	
Tenant		UCSDTenantIdentity	
Container_template		applicationTemplate	
Configure_resource_limit		Boolean	
Memory		gen_text_input	
MaximumStorageLimit		gen_text_input	
No_of_vCPUs		gen_text_input	
NoOfHostPerTier		gen_text_input	
Tiers		gen_text_input	
Half_width_phy_servers		gen_text_input	
Full_width_phy_servers		gen_text_input	
Network_throughput		gen_text_input	
Enable_nw_mgmt		Boolean	
Enable_DR		Boolean	
User_group		userGroup	
PrimaryContainerId		ServiceContainer	

### Outputs

Output	Description	Type
SR_List		serviceRequestIdList

# Trigger Multiple Container Tier Creation

## Summary

## Description

## Inputs

Input	Description	Mappable To Type	Mandatory
Container		ServiceContainer	Y
Tenant ID		gen_text_input	Y
APIC Application Profile		gen_text_input	Y
Container Private Network		ApicDeviceTenantPrivateNetwork Identity	Y
Tier List		gen_text_input	Y

## Outputs

Output	Description	Type
SR_List		serviceRequestIdList

# Trigger Multiple L4L7 Device Interface Creation

## Summary

## Description

## Inputs

Input	Description	Mappable To Type	Mandatory
Container		ServiceContainer	Y
Service_Type		gen_text_input	Y
Tier List		gen_text_input	Y
Physical Device Static Path Identity		ApicDeviceStaticPathIdentity	
IsASAvHA		gen_text_input	Y
IsLBHA		gen_text_input	Y
Device Cluster Package Identity		ApicDeviceClusterDevicePackage Identity	Y
Concrete Device 1 Identity		ApicDeviceTenantConcreteDevice Identity	Y
Concrete Device 2 Identity		ApicDeviceTenantConcreteDevice Identity	Y
Device Type		gen_text_input	
ExistingConcreteInterfaceName		gen_text_input	
SecPhysicalStaticPath		ApicDeviceStaticPathIdentity	
SecExistingConcreteInterfaceName		gen_text_input	

## Outputs

Output	Description	Type
SR_List		serviceRequestIdList

# Trigger Multiple L4L7 Services

## Summary

## Description

## Inputs

Input	Description	Mappable To Type	Mandatory
Service_Container		ServiceContainer	Y
Service_Order_Type		gen_text_input	Y

## Outputs

Output	Description	Type
SR_List		serviceRequestIdList

# Trigger Required Network Devices Configuration

## Summary

## Description

## Inputs

Input	Description	Mappable To Type	Mandatory
Container		ServiceContainer	Y
L4L7_Req_Services		gen_text_input	Y

## Outputs

Output	Description	Type
SR_List		serviceRequestIdList



# VPXVMResizeCheck

## Summary

Checks if VPX vm resize is needed.

## Description

Checks if VPX vm resize is needed.

## Inputs

Input	Description	Mappable To Type	Mandatory
PrimaryVPXVMId		gen_text_input	
CpuCount		gen_text_input	
Memory		gen_text_input	
SecondaryVPXVMId		gen_text_input	

## Outputs

Output	Description	Type
IS_PRIMARY_VPX_VM_RESIZE_REQUIRED	IS_PRIMARY_VPX_VM_RESIZE_REQUIRED	Boolean
VPX_CPU	VPX_CPU	vCPUCount
VPX_MEMORY	VPX_MEMORY	memSizeMB
VPX_VM_PRIMARY	Primary VPX VM	vm
VPX_VM_SECONDARY	VPX_VM_SECONDARY	vm
IS_SECONDARY_VPX_VM_RESIZE_REQUIRED	IS_SECONDARY_VPX_VM_RESIZE_REQUIRED	Boolean

