

Network Requirement for Shared AKS

Advanced Conversational Engagement

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1 Introduction:

This page describes the network specifications required to create a shared AKS cluster and to deploy AKS services.

2 Network Details:

1. One Virtual Network
2. Two Subnets
 - a. AKS Subnets /24
 - b. PLE Subnets /27

2.1 Subnet Details:

While creating the AKS subnet, dynamic IP allocation should not be enabled using SSNS task. few default NSG rule is required to deploy AKS services into cluster.

2.2 Inbound NSG Rule:

S . N o	Source VNet	S ou rc e S ub ne t	Source IP	Pr ot oc ol		P o r t	Ty pe
1	pipebuild agents01-p-vnet	pr d01-su bn et	10.232.61.128/26	TC P	d e s ti n a ti o n s u b n e t	4 4 3	NS G Bet we en dif fer ent Su bn et

S . No	Source VNet	Source Subnet	Source IP	Protocol		Port	Type
2	pipe01-p-vnet	prd01-subnet	10.232.49.0/24	TCP	aks01-subnet	443	NSG Between different Subnet
3	pipe01-p-vnet	prd02-subnet	10.232.92.0/24	TCP	aks01-subnet	443	NSG Between different Subnet
4	shared aks Vnet	onprem	167.202.201.0/27,164.140.203.224/28,164.140.188.224/28	TCP	aks01-subnet	443	NSG Between onprem

S . N o	Source VNet	S o u r c e S u b n e t	Source IP	Pr o t o c o l		P o r t	Ty p e
5	shared aks Vnet	on pre m	10.16.0.0/16,10.17.0.0/16,10.20.0.0/16,10.21.0.0/16,10.22.0.0/16,10.23.0.0/16,10.25.0.0/16,10.27.0.0/16, 10.29.0.0/16,10.32.0.0/16,10.33.0.0/16,10.34.0.0/16,10.35.0.0/16,10.38.0.0/16,10.39.0.0/16,10.41.0.0/16,10.42.0.0/16, 10.43.0.0/16,10.44.0.0/16,10.45.0.0/16,10.48.0.0/16,10.49.0.0/16,10.52.0.0/16,10.54.0.0/16,10.55.0.0/16,10.56.0.0/16, 10.57.0.0/16,10.58.0.0/16,10.59.0.0/16,10.60.0.0/16,10.61.0.0/16,10.121.0.0/16,10.123.0.0/16,10.131.0.0/16,10.28.0.0/16, 10.81.0.0/16,10.116.0.0/16,10.126.0.0/16	TC P	p l e 0 1 - s u b n e t	4 4 3	NS G bet we en on pre m and ple to vie w ple en abl ed res our ce s fro m por tal

2.3 Outbound NSG Rule:

Outbound NSG Rule from aks subnet to nexus will be created by default.