

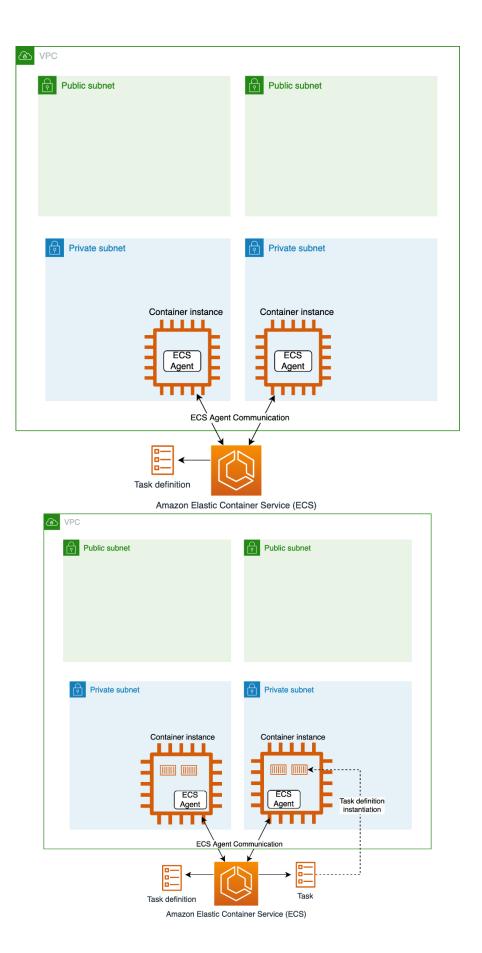
Chapter 1: No Manuscript Windows Container 101

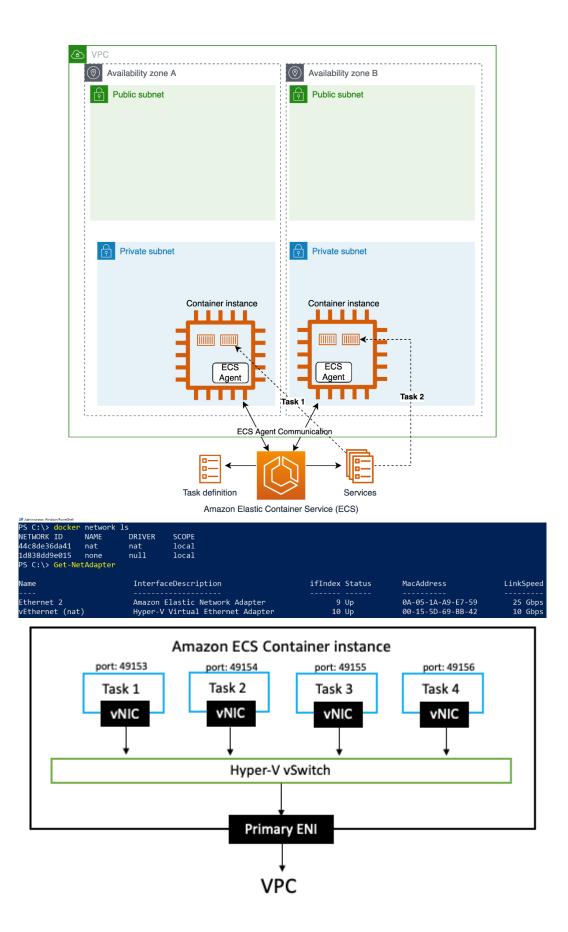
Chapter 2: Amazon Web Services – Breadth and Depth

No images...

VPC Public subnet Public subnet Private subnet Private subnet Container instance Container instance ECS ECS Agent Agent ECS Agent Communication Amazon Elastic Container Service (ECS)

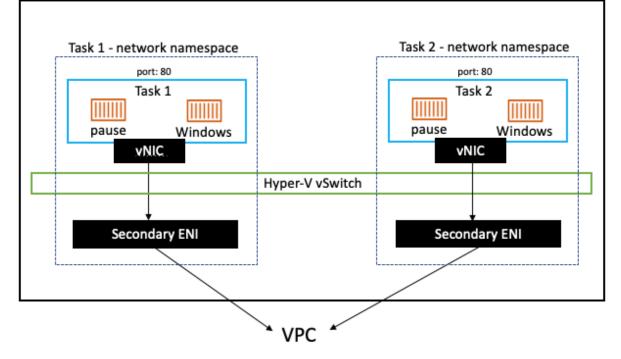
Chapter 3: Amazon ECS – Overview



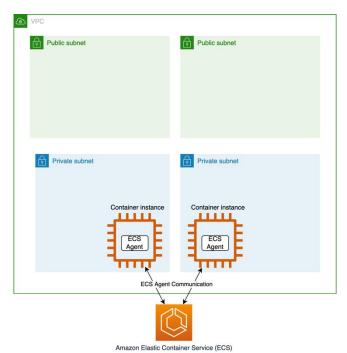


PS C:\Users\Administra	tor> Get-NetAdapter			
Name	InterfaceDescription	ifIndex Status	MacAddress	LinkSpeed
vEthernet (nat-ep-353a		35 Up	00-15-5D-D2-73-09	10 Gbps
vEthernet (nat)	Hyper-V Virtual Ethernet Adapter	13 Up	00-15-5D-D2-7D-98	10 Gbps
Ethernet 4	Amazon Elastic Network Adapter #3	12 Up	16-73-6D-A2-73-45	25 Gbps
vEthernet (taskbr16736	•••	19 Up	16-73-6D-A2-73-45	25 Gbps
Ethernet 3	Amazon Elastic Network Adapter #2	8 Up	16-D8-61-3C-EB-65	25 Gbps
vEthernet (Ethernet 5)	Hyper-V Virtual Ethernet Adapter #3	24 Disabled	16-E7-23-B4-1E-23	25 Gbps
vEthernet (nat-ep-bfd6		42 Up	00-15-5D-D2-74-B2	10 Gbps
vEthernet (taskbr16e72		25 Up	16-E7-23-B4-1E-23	25 Gbps
vEthernet (Ethernet 4)	Hyper-V Virtual Ethernet Adapter #2	18 Disabled	16-73-6D-A2-73-45	25 Gbps
Ethernet 5	Amazon Elastic Network Adapter #4	4 Up	16-E7-23-B4-1E-23	25 Gbps

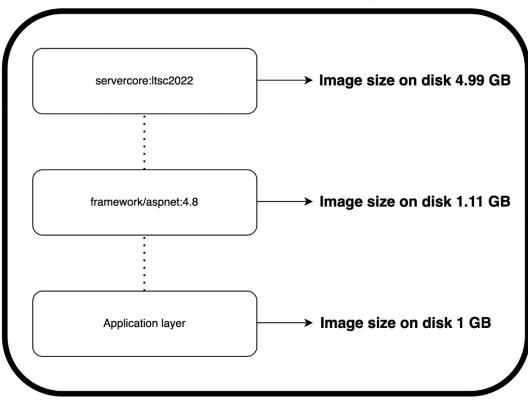




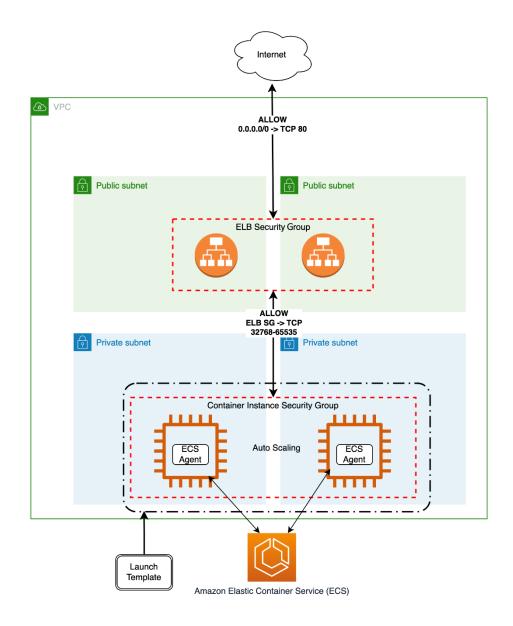
Chapter 4: Deploying a Windows Container Instance



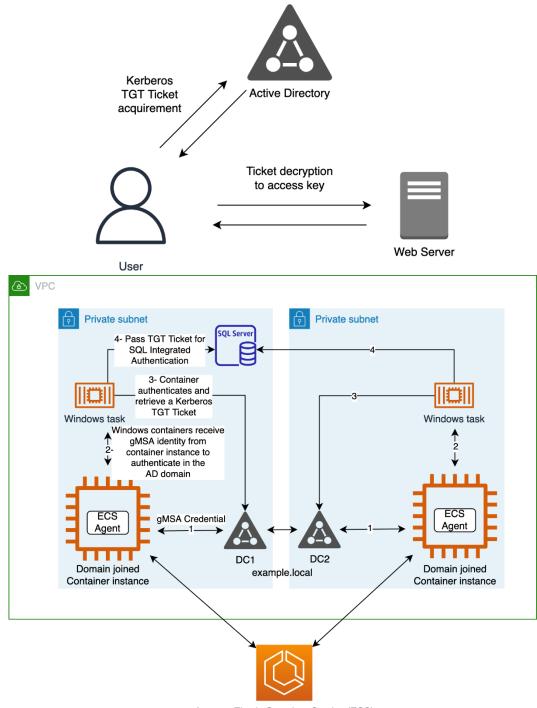
Pipe Name	Instances	Max Instances
InitShutdown	3	-1
lsass	4	-1
ntsvcs	4 3 3	-1
scerpc	3	-1
Winsock2\CatalogChangeListener-360-0	1	1
epmapper	3	-1 1
Winsock2\CatalogChangeListener-1d0-0	1 3	
LSM_API_service	3	-1
eventlog	3	-1 1
Winsock2\CatalogChangeListener-53c-0	1	1
TermSrv_API_service	3	-1
Ctx_WinStation_API_service	3	-1
atsvc	3	-1
wkssvc	4	-1
Winsock2\CatalogChangeListener-734-0	1	1 1
Winsock2\CatalogChangeListener-264-0	1	
SessEnvPublicRpc	3	-1
Winsock2\CatalogChangeListener-930-0	1	1
spoolss	3	-1 1
Winsock2\CatalogChangeListener-988-0	1	1
trkwks	3	-1
Srvsvc	5	-1
ROUTER	3	-1
docker_engine	2	-1



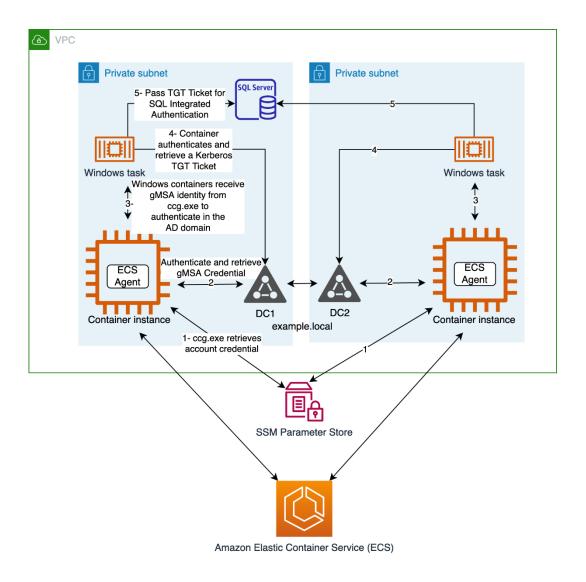
Total ASP.NET Application container image size = 7.1

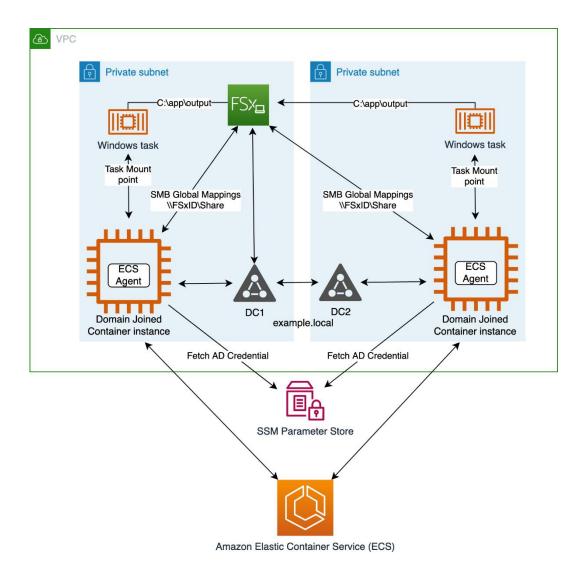


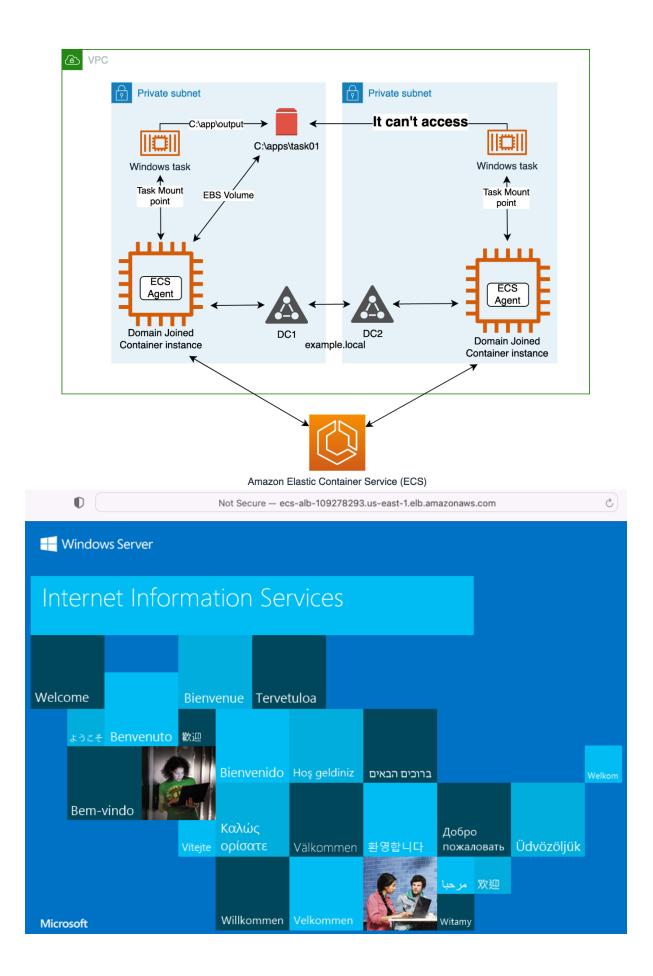
Chapter 5: Deploying an EC2 Windows-Based Task

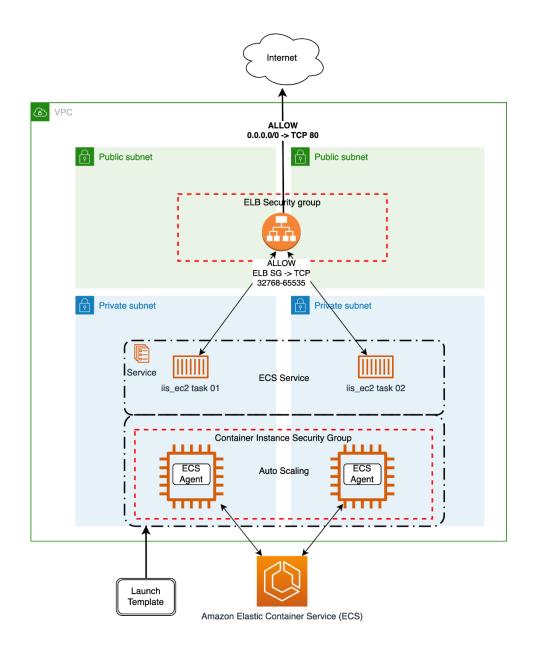


Amazon Elastic Container Service (ECS)

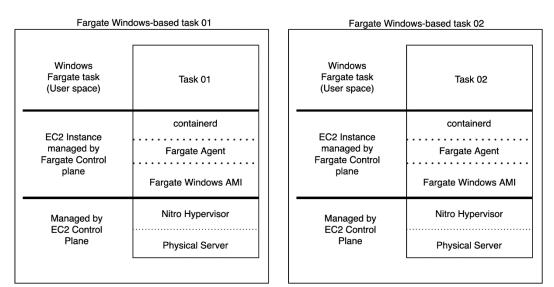






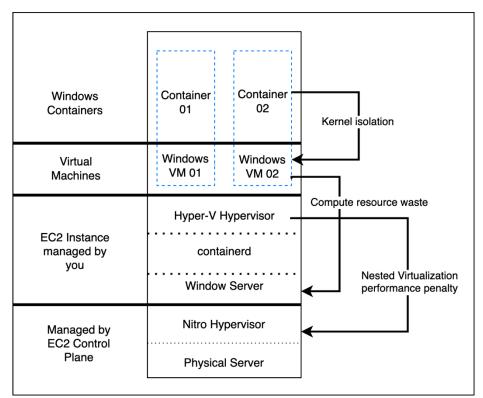


Chapter 6: Deploying a Fargate Windows-Based Task

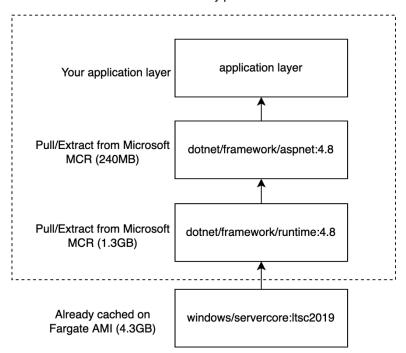


EC2 Windows-based task

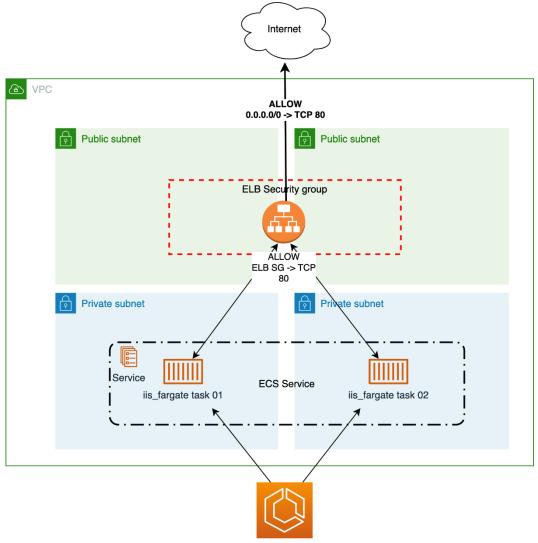
EC2 Windows Based tasks	Task 01 Task 02 Task 03 Task 04	
EC2 Instance managed by you	Docker ECS Agent ECS Windows Optimized AMI	Kernel sharing
Managed by EC2 Control Plane	Nitro Hypervisor Physical Server	



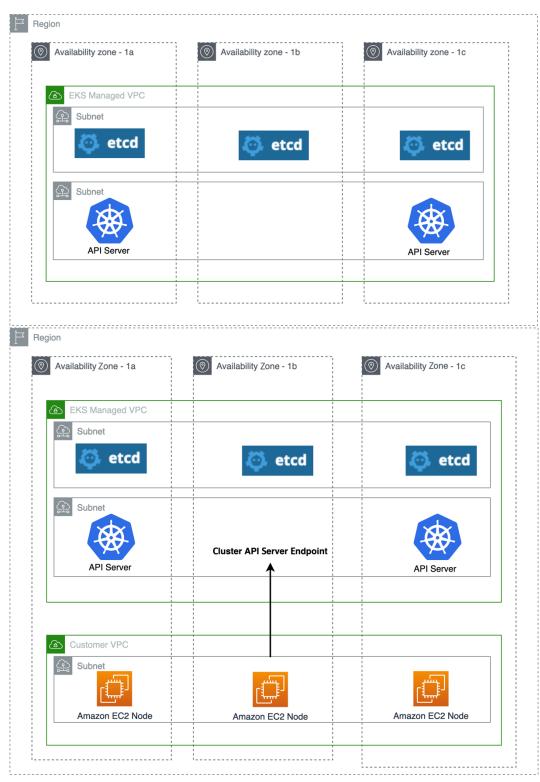
Intermediate layers take an average of 4+ minutes to be fully pulled and extracted



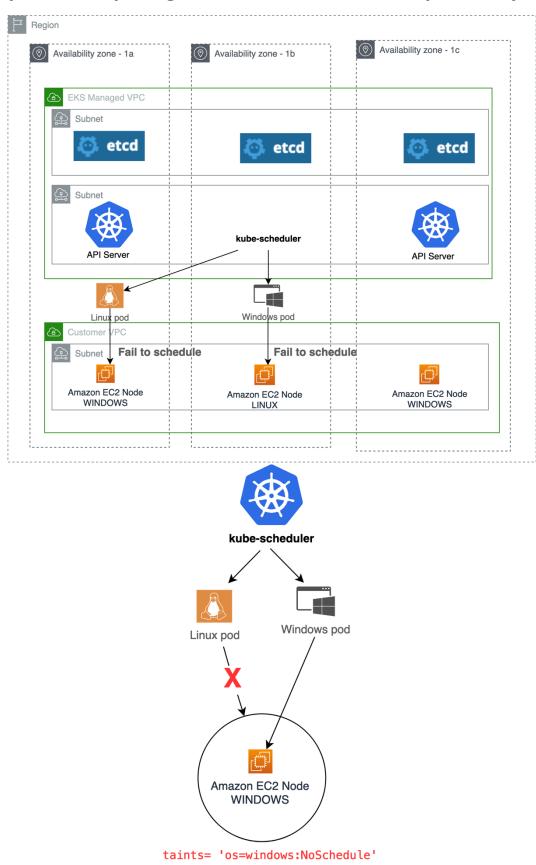
0	Not Secure — ec	s-alb-933163596	δ.us-east-1.elb.an	nazonaws.com		S
H Windows Server						
Internet Informa	ation Sei	rvices				
Welcome Bie	nvenue Terve	tuloa				
ょうこそ Benvenuto 歓迎	Bienvenido	Hoş geldiniz	ברוכים הבאים			Welkom
Bem-vindo	Καλώς τε ορίσατε	Välkommen	환영합니다	Добро пожаловать	Üdvözöljük	
Microsoft	Willkommen	Velkommen	<u>88</u>	<mark>欢迎</mark> Witamy		



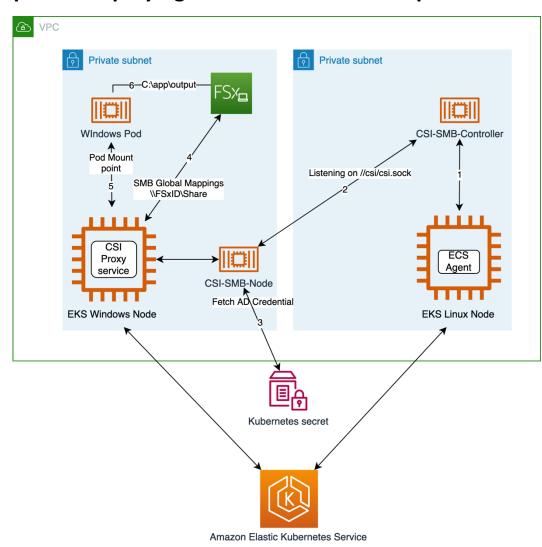
Amazon Elastic Container Service (ECS)



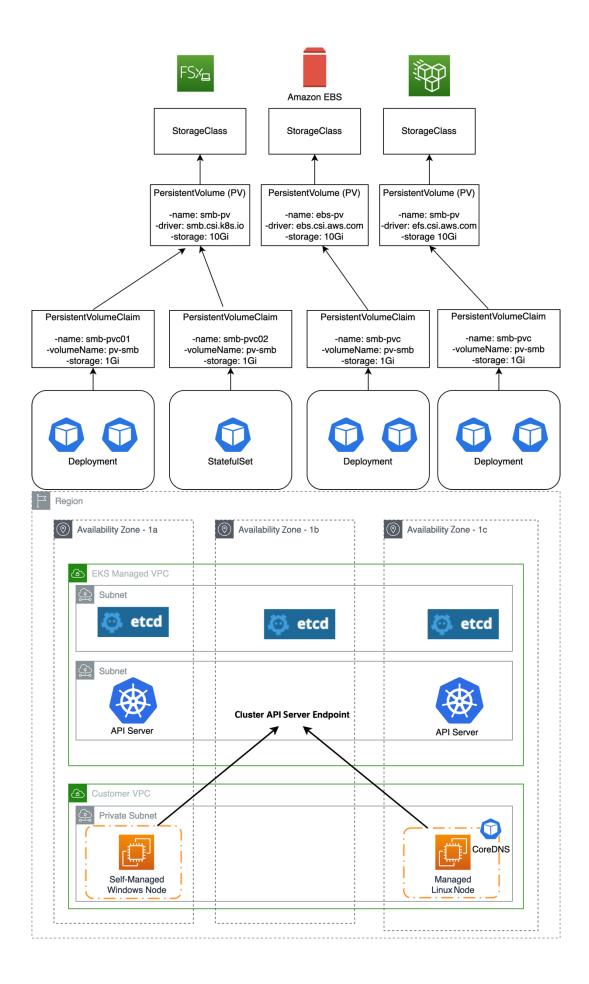
Chapter 7: Amazon EKS – Overview



Chapter 8: Preparing the Cluster for OS Interoperability



Chapter 9: Deploying a Windows Node Group



Chapter 10: Managing a Windows Pod

Deployment 1

apiVersion: apps/v1 kind: Deployment metadata: name: front-end namespace: windows spec: selector: matchLabels: app: front-end track: stable replicas: 1 template: metadata: labels: app: front-end track: stable spec: containers: - name: front-end image: mcr.microsoft.co... ports: - name: http containerPort: 80 imagePullPolicy: IfNotPresent nodeSelector: kubernetes.io/os: windows tolerations: - key: "os" operator: "Equal" value: "windows" effect: "NoSchedule"

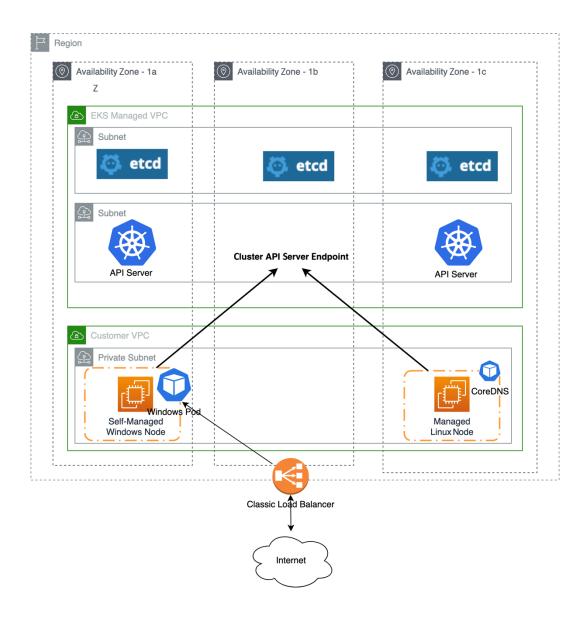
Deployment 2

apiVersion: apps/v1 kind: Deployment metadata: name: backend namespace: windows spec: selector: matchLabels: app: backend track: stable replicas: 1 template: metadata: labels: app: backend track: stable spec: containers: - name: windows-server-iis-ltsc2019 image: mcr.microsoft.co... ports: - name: http containerPort: 80 imagePullPolicy: IfNotPresent nodeSelector: kubernetes.io/os: windows tolerations: - key: "os" operator: "Equal" value: "windows" effect: "NoSchedule"

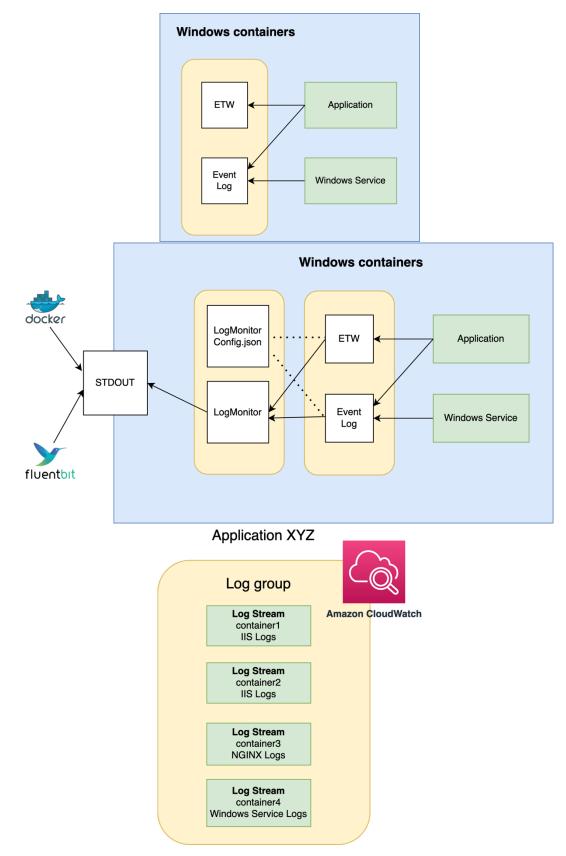
Deployment 1 Deployment 2 apiVersion: apps/v1 apiVersion: apps/v1 kind: Deployment kind: Deployment metadata: metadata: name: front-end name: backend namespace: windows namespace: windows spec: spec: selector: selector: matchLabels: matchLabels: app: front-end app: backend track: stable track: stable replicas: 1 replicas: 1 template: template: metadata: . metadata: labels: labels: app: front-end app: backend track: stable track: stable spec: spec: runtimeClassName: windows-2019 runtimeClassName: windows-2019 containers: containers: - name: front-end - name: windows-server-iis-ltsc2019 image: mcr.microsoft.co... image: mcr.microsoft.co... ports: ports: - name: http - name: http containerPort: 80 containerPort: 80 imagePullPolicy: IfNotPresent imagePullPolicy: IfNotPresent apiVersion: node.k8s.io/v1 kind: RuntimeClass metadata: name: windows-2019 handler: 'docker' scheduling: nodeSelector: kubernetes.io/os: 'windows' node.kubernetes.io/windows-build: '10.0.17764' tolerations: - effect: NoSchedule key: os operator: Equal value: "windows"

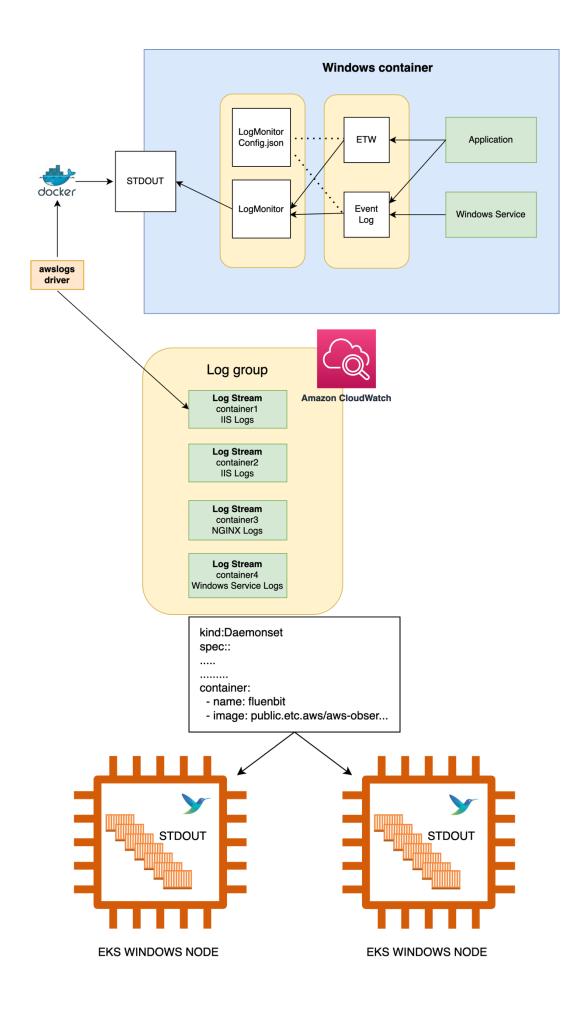
RuntimeClass

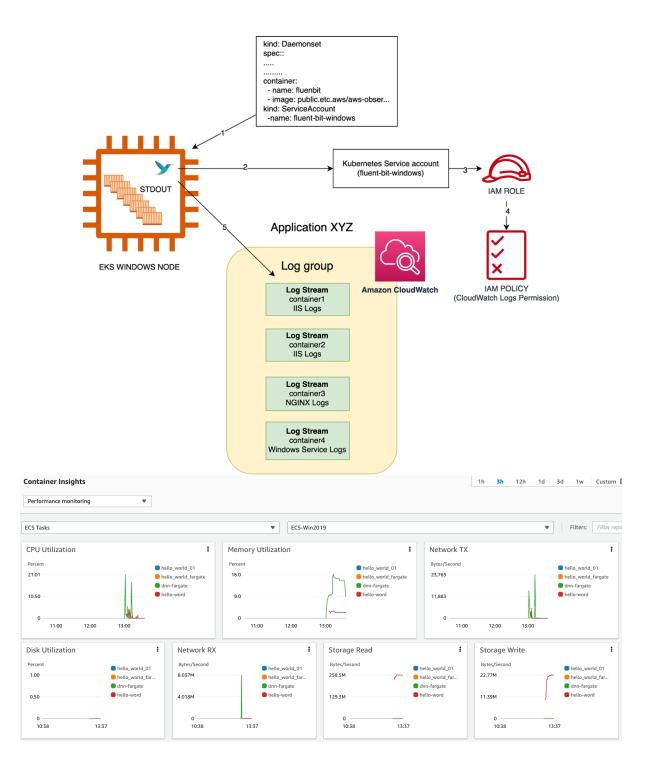
D	Not Secure -	- aaaca8af08689	49fe88fe17917ef8	3c47-14341788.u	s-east-1.elb.amaz	onaws.com	Ċ
	Internet Informa	tion Se	rvices				
	Welcome Bienw	venue Terve	tuloa				
	ょうこそ Benvenuto 軟迎	Bienvenido	Hoş geldiniz	ברוכים הבאים			Welkom
	Bem-vindo	Καλώς ορίσατε	Välkommen	환영합니다	Добро пожаловать	Üdvözöljük	
	Microsoft	Willkommen	Velkommen	<u>83</u>	<mark>ر حبا</mark> Witamy		



Chapter 11: Monitoring and Logging







Chapter 12: Managing a Windows Container's Image Life Cycle

Security Update Guide

The Microsoft Security Response Center (MSRC) investigates all reports of security vulnerabilities affecting Microsoft products and services, and provides the inf you manage security risks and help keep your systems protected.

Release Date	Last Updated	CVE Number ↑	CVE Title	Tag
Nov 8, 2022	-	CVE-2022-41118	Windows Scripting Languages Remote Code Execution Vulnerability	Windows Scripting
Nov 8, 2022	Nov 15, 2022	CVE-2022-41064	.NET Framework Information Disclosure Vulnerability	.NET Framework
Oct 11, 2022	Nov 18, 2022	CVE-2022-38045	Windows Server Service Elevation of Privilege Vulnerability	Windows Server Service
Nov 8, 2022	-	CVE-2022-38023	Netlogon RPC Elevation of Privilege Vulnerability	Windows Netlogon
{ e": "lay ers": [37e0e7d87f2613ea9741ad9c20	

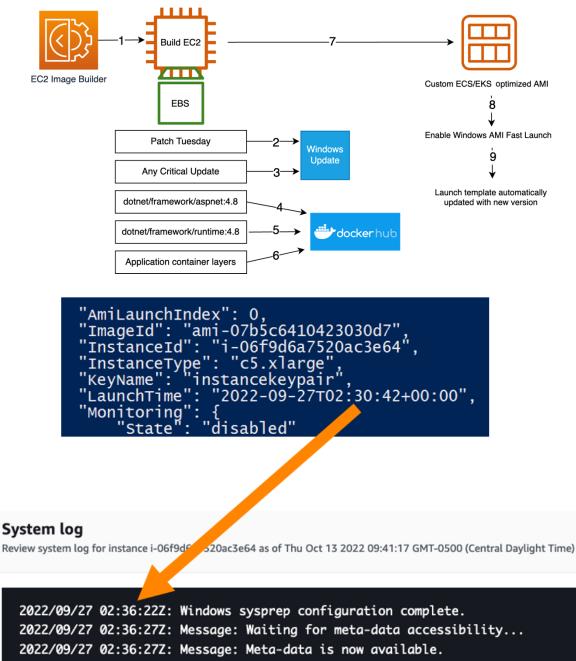
},
"RootFS": {
"Type": "layers",
"Layers": [
"sha256:d6fdd6832d95a5f537e0e7d87f2613ea9741ad9c20438b9d5a2697a883c4cd96"
"sha256:2f7d24ac68514c762d490bb4ce7ea9f9e323f8e8b2f890ed90eea76f34a3ede9"
PS C:\> docker pull mcr.microsoft.com/windows/servercore:ltsc2019
ltsc2019: Pulling from windows/servercore
h111c3320c94 Already exists

98ecc5bab1a6: Downloading [===============================>>

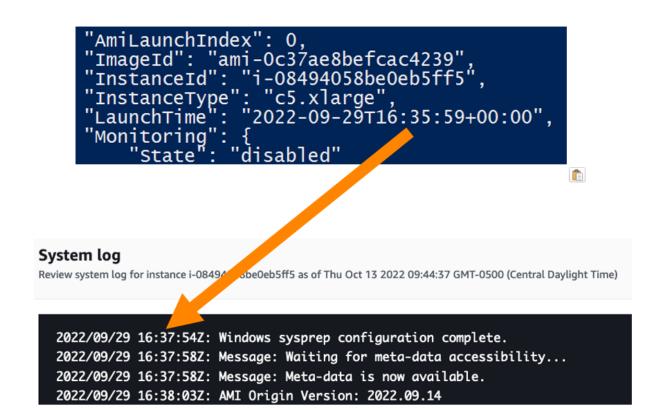
580.1MB/841.1MB

1

Chapter 13: Working with Ephemeral Hosts

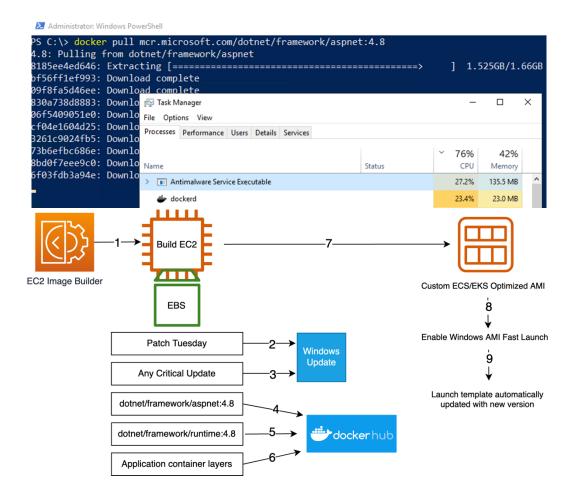


2022/09/27 02:36:32Z: AMI Origin Version: 2022.07.13



Chapter 14: Implementing a Container Image Cache Strategy





Chapter 15: AWS Windows Containers Deployment Tools

