

# AWS VPC: Virtual Private Confusion?

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It used to be simple

You went to AWS.

Created a new node.

Maybe added some disk to it.

And off you went, computing happily ever after.

## Too simple

Catch: Everyone's nodes were in one subnet.

We could all see one another.

Maybe your neighbor wasn't pretty.

Maybe they'd been cracked.

Whatever reason, you want *privacy*.

# Private, no longer simple

OK, but no more ‘just create a node’.

Creation starts with a “Virtual Private Cloud”.

Then you get to create subnets, security rules, IP gateways, NAT Gateways in multiple availability zones in multiple regions... Got that?

# AWS Nomenclature

AWS services are provided in “Regions”.

“us-east”, “us-west”, “canada” .

Regions have “Availability Zones”.

Designed to fail separately.

Redundancy uses multiple zones within a region.

EC2 & subnets make heavy use of zones.

# What you end up with

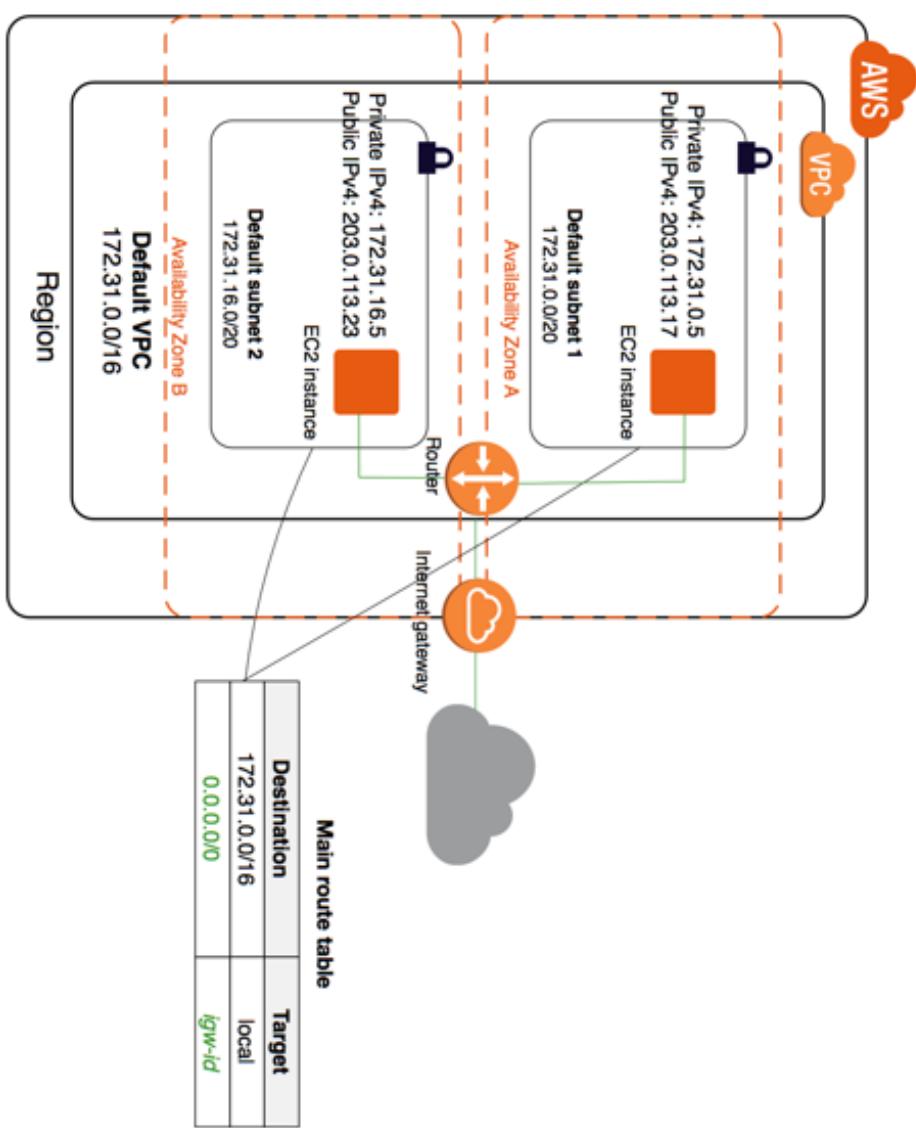
From the AWS docs:

Public & private subnets.

Gateways (“public”).

NAT gateways (“private”).

Security rules.



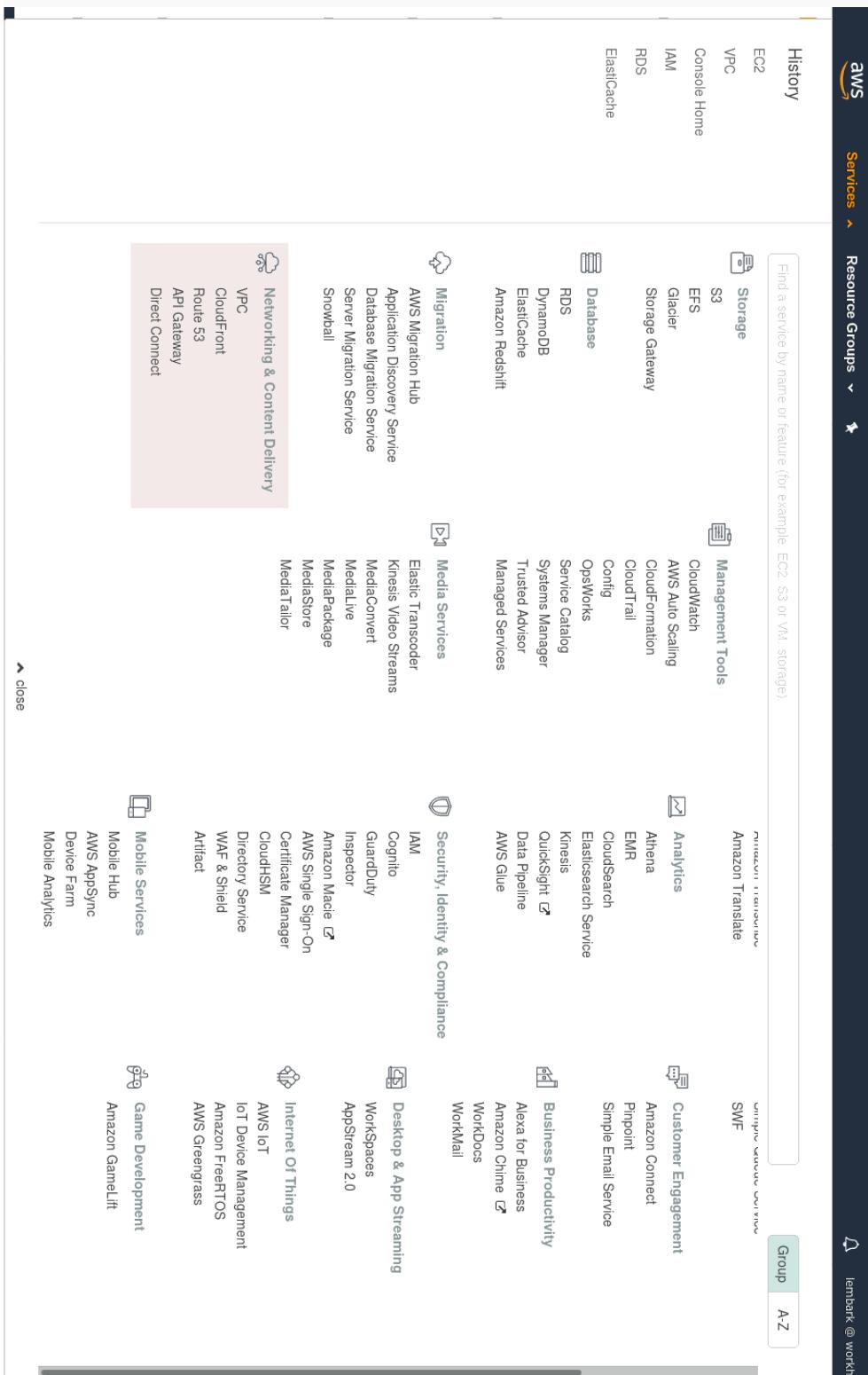
# The AWS Console

The screenshot shows the AWS Console interface. At the top, there's a dark header bar with the AWS logo, a "Services" dropdown, and a "Resource Groups" dropdown. Below the header is a search bar containing the placeholder text "Find a service by name or feature (for example: EC2, S3 or VPC storage)". To the right of the search bar are two buttons: "Group" and "A-Z". The main content area displays a grid of service icons and names. The services are categorized into groups:

- Storage**: Includes S3, EFS, Glacier, Storage Gateway.
- Management Tools**: Includes CloudWatch, AWS Auto Scaling, CloudFormation, CloudTrail, Config, OpsWorks, Service Catalog, Systems Manager, Trusted Advisor, Managed Services.
- Analytics**: Includes Amazon Translate, SWF, Amazon Transcribe, Amazon Translate, SWF.
- Customer Engagement**: Includes Simple Email Service, Pinpoint, Amazon Connect.
- Business Productivity**: Includes Alexa for Business, Amazon Chime, WorkDocs, WorkMail.
- Security, Identity & Compliance**: Includes IAM, Cognito, GuardDuty, Inspector, Amazon Macie, AWS Single Sign-On, Certificate Manager, CloudHSM, Directory Service, WAF & Shield, Artifact.
- IoT**: Includes AWS IoT, IoT Device Management, Amazon FreeRTOS, AWS Greengrass.
- Game Development**: Includes Amazon GameLift.
- Mobile Services**: Includes Mobile Hub, AWS AppSync, Device Farm, Mobile Analytics.
- Networking & Content Delivery**: Includes VPC, CloudFront, Route 53, API Gateway, Direct Connect.

At the bottom left, there's a "close" button with an upward arrow icon.

# Networking Options



# Create your VPC

Multiple VPCs possible.

Different regions

Per client.

By use: Dev. vs. QA vs. Prod.

Free-tier only vs. paid.

Split up to match your use case.

# VPC Dashboard

Filter by VPC:  Select a VPC

Start VPC Wizard   Launch EC2 Instances

Note: Your Instances will launch in the US East(Ohio) region.

You are using the following Amazon VPC resources in the US East (Ohio) region:

Resource Type	Count
VPC	1
Egress-only Internet Gateways	0
Route Tables	1
Internet Gateways	1
Egress Only Internet Gateways	0
DHCP Options Sets	0
Endpoints	0
Elastic IPs	0
Endpoints	0
Endpoint Services	0
NAT Gateways	0
Peering Connections	0
Security	0
Network ACLs	0
Security Groups	0
VPN Connections	0
Customer Gateways	0
Virtual Private Gateways	0
VPN Connections	0

[Create VPN Connection](#)

**Service Health**

Current Status	Details
<span>Green</span> Amazon VPC - US East (Ohio)	Service is operating normally

[View complete service health details](#)

**Additional Information**

- [VPC Documentation](#)
- [All VPC Resources](#)
- [Forums](#)
- [Report an Issue](#)

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Services ▾ Resource Groups ▾ 🔍

VPC Dashboard

Resources ▾

Virtual Private Cloud

Your VPCs

Subnets

Route Tables

Internet Gateways

Egress Only Internet Gateways

DHCP Options Sets

Endpoints

Elastic IPs

Endpoints

Endpoint Services

NAT Gateways

Peering Connections

Security

Network ACLs

Security Groups

VPN Connections

Customer Gateways

Virtual Private Gateways

VPN Connections

Feedback English (US)

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# Your best friend

The screenshot shows the AWS VPC Dashboard. At the top, there's a navigation bar with 'aws' logo, 'Services' dropdown, 'Resource Groups' dropdown, and a user icon. Below the navigation is a search bar labeled 'Filter by VPC' with a placeholder 'Select a VPC'. To the right of the search bar are buttons for 'Start VPC Wizard' and 'Launch EC2 Instances'. A note below the search bar states: 'Note: Your instances will launch in the US East (Ohio) region.' and 'You are using the following Amazon VPC resources in the US East (Ohio) region:'. On the left, there's a sidebar with links like 'Virtual Private Cloud', 'Your VPCs', 'Subnets', 'Route Tables', 'Internet Gateways', 'Egress Only Internet Gateways', 'DHCP Options Sets', 'Elastic IPs', 'Endpoints', 'Endpoint Services', 'NAT Gateways', and 'Peering Connections'. In the center, there's a 'Service Health' section with a 'Current Status' card showing 'Amazon EC2 - US East (Ohio)' with a green checkmark and the status 'Service is operating normally'. Below this is an 'Additional Information' card with links to 'VPC Documentation', 'All VPC Resources', 'Forums', and 'Report an Issue'. At the bottom of the dashboard, there's a 'Create VPN Connection' button and a note about using Amazon VPC to connect resources within the AWS cloud to a datacenter.

Filter by VPC: Select a VPC

Start VPC Wizard Launch EC2 Instances

Note: Your instances will launch in the US East (Ohio) region.

You are using the following Amazon VPC resources in the US East (Ohio) region:

Virtual Private Cloud

Your VPCs

Subnets

Route Tables

Internet Gateways

Egress Only Internet Gateways

DHCP Options Sets

Elastic IPs

Endpoints

Endpoint Services

NAT Gateways

Peering Connections

VPN Connections

Amazon VPC enables you to use your own isolated resources within the AWS cloud, and then connect those resources directly to your own datacenter using industry-standard encrypted IPsec VPN connections.

Create VPN Connection

Current Status

Amazon EC2 - US East (Ohio)

View complete service health details

Service is operating normally

Additional Information

VPC Documentation

All VPC Resources

Forums

Report an Issue

Details

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# Where ya at?

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aws Services Resource Groups ▾

VPC Dashboard Resources ▾

Filter by VPC: Select a VPC Start VPC Wizard Launch EC2 Instances

Note: Your instances will launch in the US East (Ohio) region.

You are using the following Amazon VPC resources in the US East (Ohio) region:

Resource Type	Count
1 VPC	1
0 Egress-only Internet Gateways	0
1 Route Table	1
1 Elastic IP	1
0 Endpoints	0
3 Security Groups	3
0 VPN Connections	0
0 Customer Gateways	0
1 Network ACL	1
0 VPC Peering Connections	0
2 Running Instances	2
0 Virtual Private Gateways	0

Virtual Private Cloud Subnets Route Tables Internet Gateways Egress Only Internet Gateways Gateways DHCP Options Sets Elastic IPs Endpoints Endpoint Services NAT Gateways Peering Connections

VPN Connections

Create VPN Connection

Amazon VPC enables you to use your own isolated resources within the AWS cloud, and then connect those resources directly to your own datacenter using industry-standard encrypted IPsec VPN connections.

Current Status Details

Amazon EC2 - US East (Ohio) Service is operating normally

View complete service health details

Additional Information

VPC Documentation All VPC Resources Forums Report an Issue

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us East (N. Virginia) us East (Ohio) US West (N. California) US West (Oregon)

Asia Pacific (Mumbai) Asia Pacific (Seoul) Asia Pacific (Singapore) Asia Pacific (Sydney) Asia Pacific (Tokyo)

Canada (Central) EU (Frankfurt) EU (Ireland) EU (London) EU (Paris)

South America (São Paulo)

Feedback English (US)

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# Where ya at?

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US East (N. Virginia)	US West (Oregon)	Asia Pacific (Tokyo)	Asia Pacific (Mumbai)	Asia Pacific (Seoul)	Asia Pacific (Singapore)	Asia Pacific (Sydney)	Asia Pacific (Ireland)	EU (London)	EU (Paris)	South America (Sao Paulo)
US East (Ohio)	US West (California)	Canada (Central)	EU (Frankfurt)							

**VPC Dashboard**

Filter by VPC: Select a VPC

**Resources** ▾

**Start VPC Wizard** **Launch EC2 Instances**

Note: Your Instances will launch in the US East (Ohio) region.

You are using the following Amazon VPC resources in the US East (Ohio) region:

Virtual Private Cloud	1 VPC	1 Internet Gateway
Your VPCs	0 Egress-only Internet Gateways	3 Subnets
Subnets	0 Route Tables	1 Network ACL
Route Tables	1 Internet Gateways	0 VPC Peering Connections
Internet Gateways	1 Elastic IP	0 Nat Gateways
Egress Only Internet Gateways	0 Endpoints	2 Running Instances
DHCP Options Sets	3 Security Groups	0 Virtual Private Gateways
Elastic IPs	0 VPN Connections	0 Customer Gateways
Endpoints	0 Endpoint Services	
Endpoint Services	Amazon VPC enables you to use your own isolated resources within the AWS cloud, and then connect those resources directly to your own datacenter using industry-standard encrypted IPsec VPN connections.	
Peering Connections	<b>Create VPN Connection</b>	

**Service Health**

**Current Status**

Amazon VPC - US East (Ohio) Service is operating normally

**Details**

Amazon EC2 - US East (Ohio) Service is operating normally

**View complete service health details**

**Additional Information**

[VPC Documentation](#) [All VPC Resources](#) [Forums](#) [Report an Issue](#)

**VPN Connections**

Amazon VPC enables you to use your own isolated resources within the AWS cloud, and then connect those resources directly to your own datacenter using industry-standard encrypted IPsec VPN connections.

**Create VPN Connection**

**Security**

Network ACLs

Security Groups

**VPN Connections**

Customer Gateways

Virtual Private Gateways

VPN Connections

# Whatcha got?

The screenshot shows the AWS VPC Dashboard. At the top, there are navigation links for Services, Resource Groups, and Support, along with account information for 'lembark @ workhorse-computing' in 'Ohio'. Below the header is a search bar labeled 'Select a VPC' and a 'Create VPC' button. A table lists the 'Virtual Private Cloud' with one entry: 'Workorse Sandbox' (VPC ID: vpc-2916d441). The table includes columns for Name, VPC ID, State, IPv4 CIDR, IPv6 CIDR, DHCP options set, Route table, Network ACL, Tenancy, Default VPC, and Actions. The 'Summary' tab is selected for the 'Workorse Sandbox' VPC. On the left sidebar, there are links for various VPC components: Subnets, Route Tables, Internet Gateways, Egress Only Internet Gateways, DHCP Options Sets, Elastic IPs, Endpoints, Endpoint Services, NAT Gateways, Peering Connections, and Security. At the bottom of the page, there are links for Network ACLs, Security Groups, VPN Connections, Customer Gateways, Virtual Private Gateways, and VPN Connections.

Name	VPC ID	State	IPv4 CIDR	IPv6 CIDR	DHCP options set	Route table	Network ACL	Tenancy	Default VPC
Workorse Sandbox	vpc-2916d441	available	10.1.0.0/16	dopt-168e7e7f	rtb-c3d8ba4	acl-bd40e4d5	Default	No	

# Whatcha got?

The screenshot shows the AWS VPC Dashboard. At the top, there are navigation links for Services, Resource Groups, and a user profile for 'lembark @ workhorse-computing'. Below the navigation is a search bar labeled 'Filter by VPC' and a 'Create VPC' button. A table lists 'Your VPCs' with one entry:

Name	VPC ID	State	IPv4 CIDR	IPv6 CIDR	DHCP options set	Route table	Network ACL	Tenancy	Default VPC
Workhorse Sandbox	vpc-2916d441	available	10.1.0.0/16	dopl-168e7e7f	rtb-cc3d8ba4	act-bd40ed45	Default	No	

The 'Summary' tab is selected. On the right, detailed information for the VPC is shown:

**VPC ID:** vpc-2916d441 | Workhorse  
**Sandbox**  
**State:** available  
**IPv4 CIDR:** 10.1.0.0/16  
**IPv6 CIDR:** DHCPOptionsSet: dopl-168e7e7f  
**Route table:** rtb-cc3d8ba4

**Network ACL:** act-bd40ed45  
**Tenancy:** Default  
**DNS resolution:** yes  
**DNS hostnames:** no

Below the summary, there are tabs for CDR Blocks, Flow Logs, and Tags. The main content area shows a list of VPC components:

- Internet Gateways
- Egress Only Internet Gateways
- DHCP Options Sets
- Elastic IPs
- Endpoints
- Endpoint Services
- NAT Gateways
- Peering Connections
- Security
- Network ACLs
- Security Groups
- VPN Connections
- Customer Gateways
- Virtual Private Gateways
- VPN Connections

At the bottom left, there are 'Feedback' and 'English (US)' buttons. The bottom right contains copyright and legal information.

# Whatcha doin'?

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VPC Dashboard Create VPC Actions ▾

Filter by VPC: Select a VPC

Virtual Private Cloud Your VPCs

Subnets

Route Tables

Internet Gateways

Egress Only Internet Gateways

DHCP Options Sets

Elastic IPs

Endpoints

Endpoint Services

NAT Gateways

Peering Connections

Security

Network ACLs

Security Groups

VPN Connections

Customer Gateways

Virtual Private Gateways

VPN Connections

Summary CIDR Blocks Flow Logs Tags

VPC ID: vpc-2916d441 | Workhorse Sandbox

Sandbox State: available

IPv4 CIDR: 10.1.0.0/16 Tenant: Default

IPv6 CIDR: Default DNS resolution: yes

DHCP options set: dopt-168ae7ef7 DNS hostnames: no

Route table: rtb-cc3d8ba4 Network ACL: acl-bd40e4d5

Workhorse Sandbox vpc-2916d441 available 10.1.0.0/16 rtb-cc3d8ba4 acl-bd40e4d5 Default No

« < 1 to 1 of 1 VPC > »

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# What's inside?

Services ▾

VPC Dashboard

Create Subnet

Subnet Actions ▾

Filter by VPC:

Select a VPC

Search Subnets and their prop X

Name	Subnet ID	State	VPC	IPv4 CIDR	IPv6 CIDR	Availability Zone	Route Table	Network ACL	Default
Sandbox Database 2b	subnet-0a3d92	available	vpc-2916d441   Workhorse Sandbox	10.1.3.0/24	250	us-east-2b	rtb-cc3d8ba4	acl-bd40e4d5	No
Sandbox DMZ	subnet-d9d306b1	available	vpc-2916d441   Workhorse Sandbox	10.1.1.0/24	249	us-east-2a	rtb-cc3d8ba4	acl-bd40e4d5	No
Sandbox Database 2a	subnet-9c71a4f4	available	vpc-2916d441   Workhorse Sandbox	10.1.2.0/24	250	us-east-2a	rtb-cc3d8ba4	acl-bd40e4d5	No

« < 1 to 3 of 3 Subnets > »

Select a subnet above

Actions ▾

Subnet Actions ▾

Virtual Private Cloud

Your VPCs

Subnets

Route Tables

Internet Gateways

Egress Only Internet Gateways

DHCP Options Sets

Elastic IPs

Endpoints

Endpoint Services

NAT Gateways

Peering Connections

Security

Network ACLs

Security Groups

VPN Connections

Customer Gateways

Virtual Private Gateways

VPN Connections

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Support ▾

Feedback

English (US)

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# What's inside?

Services ▾

VPC Dashboard

Create Subnet

Subnet Actions ▾

Filter by VPC:

Select a VPC

Search Subnets and their prop X

Name	Subnet ID	State	VPC	IPv4 CIDR	IPv6 CIDR	Availability Zone	Route Table	Network ACL	Default
Sandbox Database 2b	subnet-0a3d92	available	vpc-2916d441   Workhorse Sandbox	10.1.3.0/24	250	us-east-2b	rtb-cc3d8ba4	acl-bd40e4d5	No
Sandbox DMZ	subnet-d9d306b1	available	vpc-2916d441   Workhorse Sandbox	10.1.1.0/24	249	us-east-2a	rtb-cc3d8ba4	acl-bd40e4d5	No
Sandbox Database 2a	subnet-9c71a4f4	available	vpc-2916d441   Workhorse Sandbox	10.1.2.0/24	250	us-east-2a	rtb-cc3d8ba4	acl-bd40e4d5	No

« < 1 to 3 of 3 Subnets > »

Select a subnet above

Actions ▾

Security

Network ACLs

Security Groups

VPN Connections

Customer Gateways

Virtual Private Gateways

VPN Connections

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# What's inside?

Services ▾

VPC Dashboard

Create Subnet

Subnet Actions ▾

Filter by VPC:

Select a VPC

Search Subnets and their prop X

Name	Subnet ID	State	VPC	IPv4 CIDR	IPv6 CIDR	Availability Zone	Route Table	Network ACL	Default
Sandbox Database 2b	subnet-0a3d92	available	vpc-2916d441   Workhorse Sandbox	10.1.3.0/24	250	us-east-2b	rtb-cc3d8ba4	aci-bd40e4d5	No
Sandbox DMZ	subnet-d9d306b1	available	vpc-2916d441   Workhorse Sandbox	10.1.1.0/24	249	us-east-2a	rtb-cc3d8ba4	aci-bd40e4d5	No
Sandbox Database 2a	subnet-9c71a4f4	available	vpc-2916d441   Workhorse Sandbox	10.1.2.0/24	250	us-east-2a	rtb-cc3d8ba4	aci-bd40e4d5	No

« < 1 to 3 of 3 Subnets > »

Select a subnet above

Actions ▾

Subnet Actions ▾

Virtual Private Cloud

Your VPCs

Subnets

Route Tables

Internet Gateways

Egress Only Internet Gateways

DHCP Options Sets

Elastic IPs

Endpoints

Endpoint Services

NAT Gateways

Peering Connections

Security

Network ACLs

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VPN Connections

Customer Gateways

Virtual Private Gateways

VPN Connections

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Support ▾

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Whatcha running?

The screenshot shows the AWS EC2 Dashboard with the 'Launch Instance' wizard open. The top navigation bar includes 'Events', 'Tags', 'Reports', 'Limits', and 'Instances'. The 'Instances' tab is selected, showing a list of instances. A specific instance, 'i-07d3d9461ab50f25e', is selected, displaying its details: Public IP: 18.218.53.74, Instance ID: i-07d3d9461ab50f25e, Status: running, and Availability Zone: us-east-2a.

The 'Launch Instance' wizard steps are:

- Step 1: Select Image and Instance Type
- Step 2: Configure Instance Details
- Step 3: Add Storage
- Step 4: Set Network & Security
- Step 5: Configure IAM Role
- Step 6: Add Tags
- Step 7: Review and Launch

The 'Configure Instance Details' step is currently active, showing the following configuration:

Description	Status Checks	Monitoring	Tags
Instance ID	H-07d3d9461ab50f25e		
Instance state	running		
Instance type	t2.micro		
Elastic IPs			
Availability zone	us-east-2a		
Security groups	default, view inbound rules		
Scheduled events	No scheduled events		
AMI ID	RHEL-7.4-HVM-GA-20170808-x86_64-2-Hourly2-GP2 (ami-cdfafaaa)		
Platform	-		
IAM role	-		
Key pair name	sandbox-dmz		

The 'Add Storage' step is shown below, with one EBS-optimized volume selected:

Type	Volume ID	Size (GB)	IOPS	Throughput (MiB/s)	Encryption	Volume status	Attached since
EBS-optimized	/dev/sda1	100	1000	30	None	Attached	December 31, 2017 at 6:24:51 PM UTC-6 (430 hours)

The 'Set Network & Security' step is also visible, showing network interface details:

Network interface	Subnet ID	VPC ID	Private IPs	Public DNS (IPv4)	IPv4 Public IP	IPv6 IPs	Key Name	Monitor
eth0	subnet-09f306b1	vpc-29f6d441	10.1.1.162	-	18.218.53.74	-	-	-

The 'Configure IAM Role' step is partially visible at the bottom.

# Whatcha running?

Screenshot of the AWS EC2 Dashboard showing the details of an instance named "lemberk".

**EC2 Dashboard**

**Instances** (1)

**Instance: i-07d3d9461ab50f25e** Public IP: 18.218.53.74

Description	Status Checks	Monitoring	Tags
Instance ID: i-07d3d9461ab50f25e	2/2 checks ...	None	Monitc
Instance State: running	running	2/2 checks ...	sandbox-dmz
Instance Type: t2.micro			dis
Availability Zone: us-east-2a			
Security groups: default - view inbound rules			
Scheduled events: No scheduled events			
AMI ID: RHEL-7.4_HVM_GA-20170808-x86_64-2-Hourly2-GP2 (ami-ctqfaaa)			
Platform: -			
IAM role: -			
Key pair name: sandbox-4mz			
EBS-optimized: False			
Root device type: ebs			
Root device: /dev/sda1			
Block devices: /dev/sda1			
Elastic GPU: -			
Elastic GPU type: -			
Elastic GPU status: -			
Termination protection: True			
Lifecycle: normal			
Monitoring: basic			
Alarm status: None			
Kernel ID: -			
RAM disk ID: -			
Placement group: -			
Virtualization Reservation: r-0be8c222894aa975f			
AMI launch index: 0			
Tenancy: default			
Host ID: -			

Services: ▾ Resource Groups: ▾

Events Tags Reports Limits Instances Launch Templates Spot Requests Reserved Instances Dedicated Hosts AMIs Bundle Tasks ELASTIC BLOCK STORE Volumes Snapshots NETWORK & SECURITY Security Groups Elastic IPs Placement Groups Key Pairs Network Interfaces Target Groups LOAD BALANCING Load Balancers Target Groups AUTO SCALING Launch Configurations Auto Scaling Groups

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◀ ▶ 1 to 2 of 2 ▶ ▷

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Services ▾ Resource Groups ▾

Events Tags Reports Limits Instances Launch Templates Spot Requests Reserved Instances Dedicated Hosts AMIs Bundle Tasks ELASTIC BLOCK STORE Volumes Snapshots NETWORK & SECURITY Security Groups Elastic IPs Placement Groups Key Pairs Network Interfaces Target Groups LOAD BALANCING Load Balancers Target Groups AUTO SCALING Launch Configurations Auto Scaling Groups

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# Whatcha running?

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EC2 Dashboard Services ▾ Resource Groups ▾ ▶ 🔍 ⚙️ 🌐

Events Tags Reports Limits

INSTANCES Instances

Launch Templates

Spot Requests Reserved Instances Dedicated Hosts

AMIS IMAGES

Bundle Tasks

ELASTIC BLOCK STORE

Volumes Snapshots

NETWORK & SECURITY

Security Groups

Elastic IPs Placement Groups Key Pairs Network Interfaces

LOAD BALANCING

Load Balancers Target Groups

AUTO SCALING

Launch Configurations Auto Scaling Groups

Feedback English (US)

Services ▾ Resource Groups ▾ ▶ 🔍 ⚙️ 🌐

Launch Instance Connect Actions ▾

Filter by tags and attributes or search by keyword

Instance ID: i-07d3d9461ab50f25e Public IP: 18.218.53.74

Description	Status Checks	Monitoring	Tags
Instance ID i-07d3d9461ab50f25e	2/2 checks ...	None	Key Name: dls
Instance State running	IPv4 Public IP 18.218.53.74	IPv6 IPs	Monitc
Availability Zone us-east-2a	Public DNS (IPv4) 18.218.53.74	IPv4 Public IP	
Security groups default, view inbound rules	IPv6 IPs	IPv6 IPs	
Scheduled events No scheduled events	Private DNS ip-10-1-1-162.us-east-2.compute.internal	Private IPs	
AMI ID RHEL-7.4_HVM_GA-20170808-x86_64-Hourly2-GP2 (ami-ctdataaa)	Secondary private IPs	Secondary private IPs	
Platform -	VPC ID vpc-2916d441	VPC ID	
IAM role -	Subnet ID subnet-d9d30b61	Subnet ID	
Key pair name sandbox-dmz	Network interfaces eth0	Network interfaces	
EBS-optimized False	Source/dest. check True	Source/dest. check	
Root device type ebs	T2 Unlimited Disabled	T2 Unlimited	
Root device /dev/sda1	Owner 309824499765	Owner	
Block devices /dev/sda1	Launch time December 31, 2017 at 6:24:51 PM UTC-6 (430 hours)	Launch time	
Elastic GPU -	Termination protection True	Termination protection	
Elastic GPU type -	Lifecycle normal	Lifecycle	
Elastic GPU status -	Monitoring basic	Monitoring	
Placement group -	Alarm status None	Alarm status	
Kernel ID -	RAM disk ID -	Kernel ID	
Placement group -	Virtualization hvm	Virtualization	
Reservation r-0b8ec222894aa975f	AMI launch index 0	AMI launch index	
Host ID -	Tenancy default	Tenancy	

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See it for real...

Create a new VPC.

Add subnets.

Add security.

Start an instance.

## Summary

Lots of docs.

VPC starts it all.

10.X.0.0/16 good start.

Subnets break up.

10.X.Y.0/24 works well.

Availability zones & subnets work together.