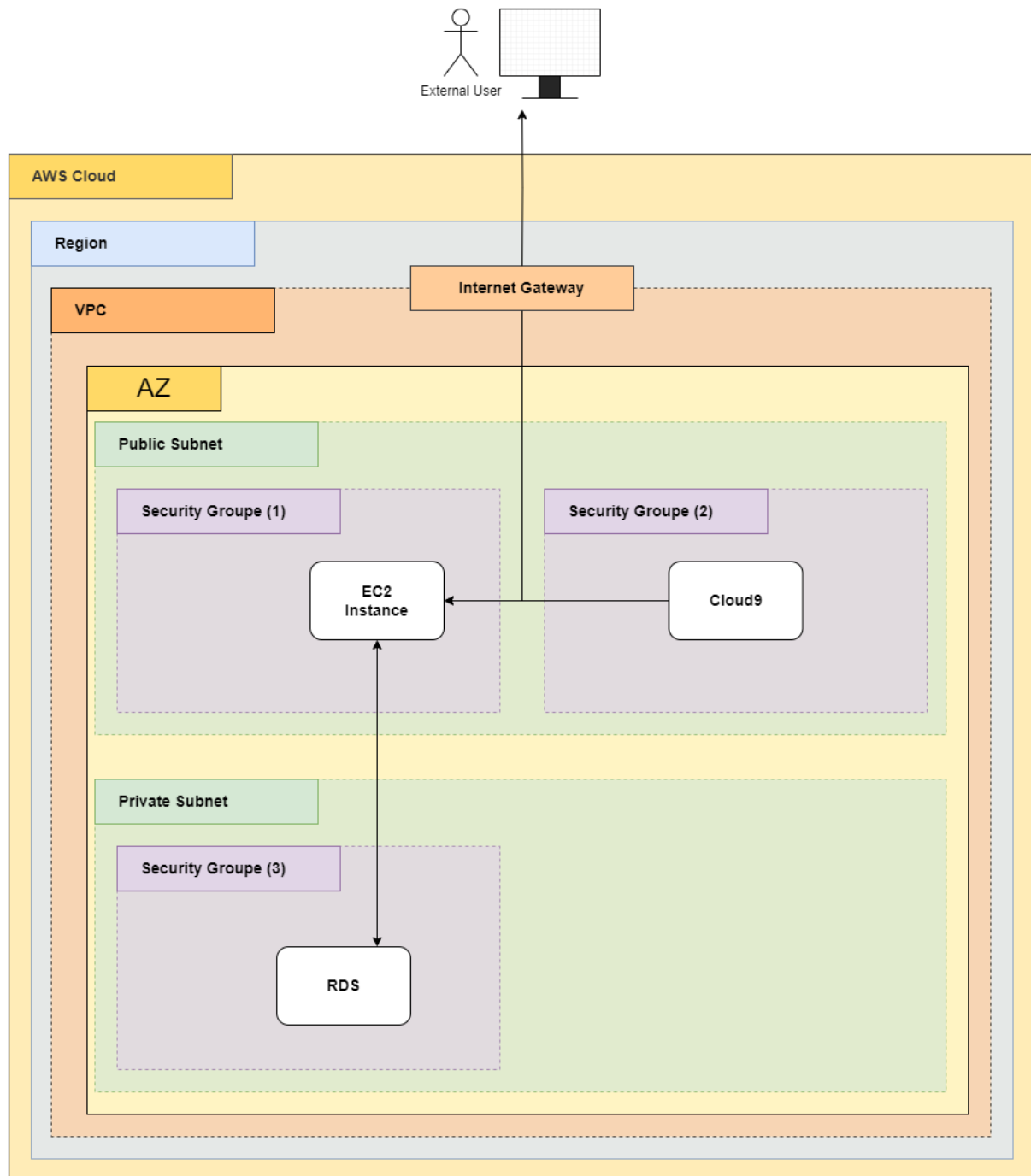


AWS Cloud & Big Data Architectures – Project

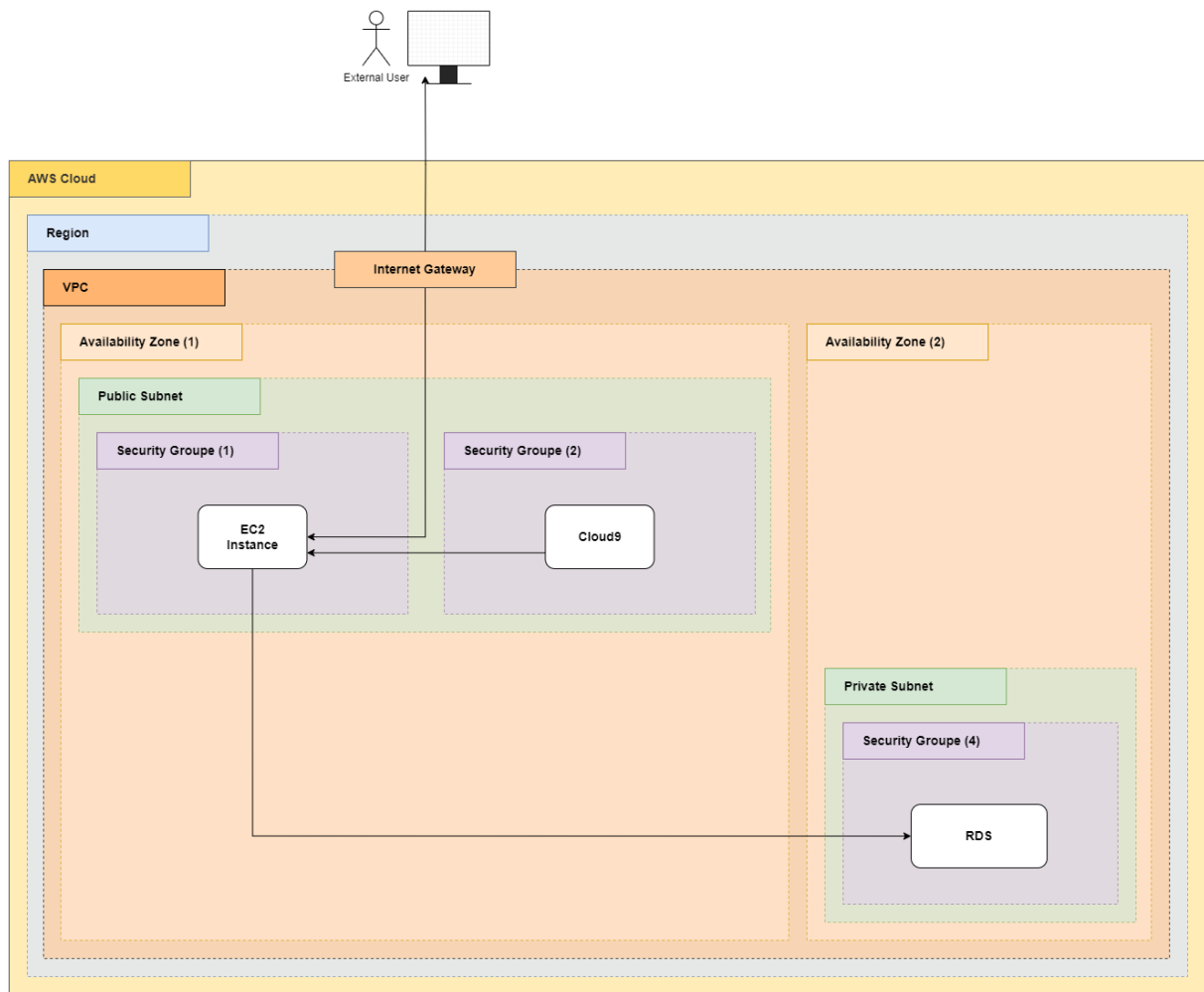
Julie MONNOT – Eléna TELEGA

Architecture Diagram

Before creating RDF

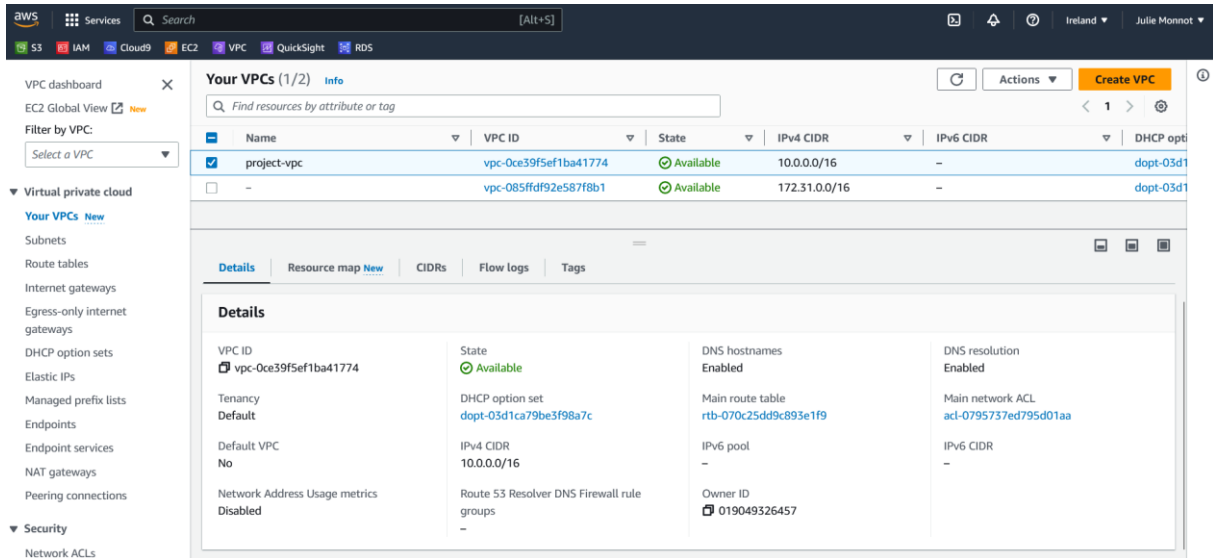


After creating RDF



VPC

VPC



The screenshot shows the AWS Management Console VPC dashboard. The left sidebar contains navigation links for VPC, Subnets, Route tables, Internet gateways, Egress-only internet gateways, DHCP option sets, Elastic IPs, Managed prefix lists, Endpoints, Endpoint services, NAT gateways, Peering connections, and Security. The main content area displays 'Your VPCs (1/2)' with a table listing VPCs. Below the table, the 'Details' tab for the selected VPC 'project-vpc' is shown, displaying various configuration details.

Name	VPC ID	State	IPv4 CIDR	IPv6 CIDR	DHCP opti
<input checked="" type="checkbox"/> project-vpc	vpc-0ce39f5ef1ba41774	Available	10.0.0.0/16	-	dopt-03d1
<input type="checkbox"/> -	vpc-085ffdf92e587f8b1	Available	172.31.0.0/16	-	dopt-03d1

Details

VPC ID vpc-0ce39f5ef1ba41774	State Available	DNS hostnames Enabled	DNS resolution Enabled
Tenancy Default	DHCP option set dopt-03d1ca79be3f98a7c	Main route table rtb-070c25dd9c893e1f9	Main network ACL acl-0795737ed795d01aa
Default VPC No	IPv4 CIDR 10.0.0.0/16	IPv6 pool -	IPv6 CIDR -
Network Address Usage metrics Disabled	Route 53 Resolver DNS Firewall rule groups -	Owner ID 019049326457	

Ressource map



Subnets

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S3 IAM Cloud9 EC2 VPC QuickSight RDS

VPC dashboard
EC2 Global View **New**
Filter by VPC: Select a VPC

Virtual private cloud
Your VPCs **New**
Subnets
Route tables
Internet gateways
Egress-only internet gateways
DHCP option sets
Elastic IPs
Managed prefix lists
Endpoints
Endpoint services
NAT gateways
Peering connections

Security
Network ACLs

Subnets (1/8) Info
Find resources by attribute or tag

Name	Subnet ID	State	VPC	IPv4 CIDR
-	subnet-06cee478d4c36aa7b	Available	vpc-085ffdf92e587f8b1	172.31.32.0/20
-	subnet-088b28a90e50e8afc	Available	vpc-085ffdf92e587f8b1	172.31.0.0/20
-	subnet-0e5c3670fa1227900	Available	vpc-085ffdf92e587f8b1	172.31.16.0/20
project-subnet-public1-eu-west-1a	subnet-012a407004f55b83e	Available	vpc-0ce39f5ef1ba41774 proje...	10.0.0.0/20
project-subnet-private1-eu-west-1a	subnet-0828de2d915f339a1	Available	vpc-0ce39f5ef1ba41774 proje...	10.0.128.0/20
RDS-Pvt-subnet-3	subnet-0fe6f30f89c84ceac	Available	vpc-0ce39f5ef1ba41774 proje...	10.0.17.0/25
RDS-Pvt-subnet-2	subnet-01e137d3946b868b5	Available	vpc-0ce39f5ef1ba41774 proje...	10.0.16.128/25
RDS-Pvt-subnet-1	subnet-0be2df40d97540370	Available	vpc-0ce39f5ef1ba41774 proje...	10.0.16.0/25

Details

Subnet ID: subnet-0fe6f30f89c84ceac
Subnet ARN: arn:aws:ec2:eu-west-1:019049326457:subnet/subnet-012a407004f55b83e
State: Available
IPv4 CIDR: 10.0.17.0/25

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S3 IAM Cloud9 EC2 VPC QuickSight RDS

VPC dashboard
EC2 Global View **New**
Filter by VPC: Select a VPC

Virtual private cloud
Your VPCs **New**
Subnets
Route tables
Internet gateways
Egress-only internet gateways
DHCP option sets
Elastic IPs
Managed prefix lists
Endpoints
Endpoint services
NAT gateways
Peering connections

Security
Network ACLs

Subnets (1/8) Info
Find resources by attribute or tag

Name	Subnet ID	State	VPC	IPv4 CIDR
project-subnet-public1-eu-west-1a	subnet-012a407004f55b83e	Available	vpc-0ce39f5ef1ba41774 proje...	10.0.0.0/20
project-subnet-private1-eu-west-1a	subnet-0828de2d915f339a1	Available	vpc-0ce39f5ef1ba41774 proje...	10.0.128.0/20
RDS-Pvt-subnet-3	subnet-0fe6f30f89c84ceac	Available	vpc-0ce39f5ef1ba41774 proje...	10.0.17.0/25
RDS-Pvt-subnet-2	subnet-01e137d3946b868b5	Available	vpc-0ce39f5ef1ba41774 proje...	10.0.16.128/25

Details

Subnet ID: subnet-012a407004f55b83e
Subnet ARN: arn:aws:ec2:eu-west-1:019049326457:subnet/subnet-012a407004f55b83e
State: Available
IPv4 CIDR: 10.0.0.0/20

Available IPv4 addresses: 4090
VPC: vpc-0ce39f5ef1ba41774 | project-vpc
Auto-assign public IPv4 address: Yes
Outpost ID: -
Hostname type: IP name
Owner: -

Availability Zone: eu-west-1a
Network ACL: acl-0795737ed795d01aa
Auto-assign customer-owned IPv4 address: No
IPv6 CIDR reservations: No
Resource name DNS AAAA record: Disabled

Availability Zone ID: euw1-az3
Default subnet: No
Customer-owned IPv4 pool: -
IPv6-only: No
DNS64: Disabled

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S3 IAM Cloud9 EC2 VPC QuickSight RDS

VPC dashboard
EC2 Global View **New**
Filter by VPC: Select a VPC

Virtual private cloud
Your VPCs **New**
Subnets
Route tables
Internet gateways
Egress-only internet gateways
DHCP option sets
Elastic IPs
Managed prefix lists
Endpoints
Endpoint services
NAT gateways
Peering connections

Security
Network ACLs

Subnets (1/8) Info
Find resources by attribute or tag

Name	Subnet ID	State	VPC	IPv4 CIDR
project-subnet-public1-eu-west-1a	subnet-012a407004f55b83e	Available	vpc-0ce39f5ef1ba41774 proje...	10.0.0.0/20
project-subnet-private1-eu-west-1a	subnet-0828de2d915f339a1	Available	vpc-0ce39f5ef1ba41774 proje...	10.0.128.0/20
RDS-Pvt-subnet-3	subnet-0fe6f30f89c84ceac	Available	vpc-0ce39f5ef1ba41774 proje...	10.0.17.0/25
RDS-Pvt-subnet-2	subnet-01e137d3946b868b5	Available	vpc-0ce39f5ef1ba41774 proje...	10.0.16.128/25

Details

Subnet ID: subnet-0828de2d915f339a1
Subnet ARN: arn:aws:ec2:eu-west-1:019049326457:subnet/subnet-0828de2d915f339a1
State: Available
IPv4 CIDR: 10.0.128.0/20

Available IPv4 addresses: 4091
VPC: vpc-0ce39f5ef1ba41774 | project-vpc
Auto-assign public IPv4 address: No
Outpost ID: -

Availability Zone: eu-west-1a
Network ACL: acl-0795737ed795d01aa
Auto-assign customer-owned IPv4 address: No
IPv6 CIDR reservations: -

Availability Zone ID: euw1-az3
Default subnet: No
Customer-owned IPv4 pool: -
IPv6-only: No

aws

Services

Search

[Alt+5]

S3

IAM

Cloud9

EC2

VPC

QuickSight

RDS

VPC dashboard

×

EC2 Global View

New

Filter by VPC:

Select a VPC

Virtual private cloud

Your VPCs

Subnets

Route tables

Internet gateways

Egress-only internet gateways

DHCP option sets

Elastic IPs

Managed prefix lists

Endpoints

Endpoint services

NAT gateways

Peering connections

Security

Network ACLs

Route tables (1/5)

Info

Find resources by attribute or tag

1

>

⌕

	Name	Route table ID	Explicit subnet associati...	Edge associations	Main	VPC
<input type="checkbox"/>	-	rtb-070c25dd9c893e1f9	-	-	Yes	vpc-0ce39f5ef1ba41774 prc
<input type="checkbox"/>	project-rtb-private1-eu-west-1a	rtb-05e7ad3673013c6bf	subnet-0828de2d915f533...	-	No	vpc-0ce39f5ef1ba41774 prc
<input type="checkbox"/>	-	rtb-0db22d901566837ea	-	-	Yes	vpc-085ffdf92e587f8b1
<input checked="" type="checkbox"/>	project-rtb-public	rtb-0ad26f2fde22a13f	subnet-012a07004f55b...	-	No	vpc-0ce39f5ef1ba41774 prc
<input type="checkbox"/>	RDS-Pvt-rt	rtb-046503e6b810c8b6e	3 subnets	-	No	vpc-0ce39f5ef1ba41774 prc

Details

Routes

Subnet associations

Edge associations

Route propagation

Tags

Routes (2)

Filter routes

Both

1

>

⌕

Destination	Target	Status	Propagated
0.0.0.0/0	igw-0967dfe3d08b1d6fd	Active	No
10.0.0.0/16	local	Active	No

aws Services Search [Alt+S]

S3 IAM Cloud9 EC2 VPC QuickSight RDS

VPC dashboard EC2 Global View **New**

Filter by VPC: Select a VPC

Virtual private cloud

Your VPCs **New**

Subnets

Route tables

Internet gateways

Egress-only internet gateways

DHCP option sets

Elastic IPs

Managed prefix lists

Endpoints

Endpoint services

NAT gateways

Peering connections

Security

Network ACLs

Route tables (1/5) Info

Find resources by attribute or tag

Name	Route table ID	Explicit subnet associati...	Edge associations	Main	VPC
-	rtb-070c25dd9c893e1f9	-	-	Yes	vpc-0ce39f5ef1ba41774 pr
project-rtb-private1-eu-west-1a	rtb-05e7ad3673013c6bf	subnet-0828de2d915f33...	-	No	vpc-0ce39f5ef1ba41774 pr
-	rtb-0db22d901566837ea	-	-	Yes	vpc-085ffd92e587f8b1
project-rtb-public	rtb-0ad26f2cfd22a13f	subnet-012a407004f55b...	-	No	vpc-0ce39f5ef1ba41774 pr
RDS-Pvt-rt	rtb-046503e6b810c8b6e	3 subnets	-	No	vpc-0ce39f5ef1ba41774 pr

rtb-0ad26f2cfd22a13f / project-rtb-public

Details Routes **Subnet associations** Edge associations Route propagation Tags

Explicit subnet associations (1)

Find subnet association

Name	Subnet ID	IPv4 CIDR	IPv6 CIDR
project-subnet-public1-eu-west-1a	subnet-012a407004f55b83e	10.0.0.0/20	-

Subnets without explicit associations (0)

The following subnets have not been explicitly associated with any route tables and are therefore associated with the main route table:

aws Services Search [Alt+S]

S3 IAM Cloud9 EC2 VPC QuickSight RDS

VPC dashboard EC2 Global View **New**

Filter by VPC: Select a VPC

Virtual private cloud

Your VPCs **New**

Subnets

Route tables

Internet gateways

Egress-only internet gateways

DHCP option sets

Elastic IPs

Managed prefix lists

Endpoints

Endpoint services

NAT gateways

Peering connections

Security

Network ACLs

Route tables (1/5) Info

Find resources by attribute or tag

Name	Route table ID	Explicit subnet associati...	Edge associations	Main	VPC
-	rtb-070c25dd9c893e1f9	-	-	Yes	vpc-0ce39f5ef1ba41774 pr
project-rtb-private1-eu-west-1a	rtb-05e7ad3673013c6bf	subnet-0828de2d915f33...	-	No	vpc-0ce39f5ef1ba41774 pr
-	rtb-0db22d901566837ea	-	-	Yes	vpc-085ffd92e587f8b1
project-rtb-public	rtb-0ad26f2cfd22a13f	subnet-012a407004f55b...	-	No	vpc-0ce39f5ef1ba41774 pr
RDS-Pvt-rt	rtb-046503e6b810c8b6e	3 subnets	-	No	vpc-0ce39f5ef1ba41774 pr

rtb-05e7ad3673013c6bf / project-rtb-private1-eu-west-1a

Details **Routes** Subnet associations Edge associations Route propagation Tags

Routes (1)

Filter routes Both

Destination	Target	Status	Propagated
10.0.0.0/16	local	Active	No

aws Services Search [Alt+S]

S3 IAM Cloud9 EC2 VPC QuickSight RDS

VPC dashboard EC2 Global View **New**

Filter by VPC: Select a VPC

Virtual private cloud

Your VPCs **New**

Subnets

Route tables

Internet gateways

Egress-only internet gateways

DHCP option sets

Elastic IPs

Managed prefix lists

Endpoints

Endpoint services

NAT gateways

Peering connections

Security

Network ACLs

Route tables (1/5) Info

Find resources by attribute or tag

Name	Route table ID	Explicit subnet associati...	Edge associations	Main	VPC
-	rtb-070c25dd9c893e1f9	-	-	Yes	vpc-0ce39f5ef1ba41774 pr
project-rtb-private1-eu-west-1a	rtb-05e7ad3673013c6bf	subnet-0828de2d915f33...	-	No	vpc-0ce39f5ef1ba41774 pr
-	rtb-0db22d901566837ea	-	-	Yes	vpc-085ffd92e587f8b1
project-rtb-public	rtb-0ad26f2cfd22a13f	subnet-012a407004f55b...	-	No	vpc-0ce39f5ef1ba41774 pr
RDS-Pvt-rt	rtb-046503e6b810c8b6e	3 subnets	-	No	vpc-0ce39f5ef1ba41774 pr

rtb-05e7ad3673013c6bf / project-rtb-private1-eu-west-1a

Details Routes **Subnet associations** Edge associations Route propagation Tags

Explicit subnet associations (1)

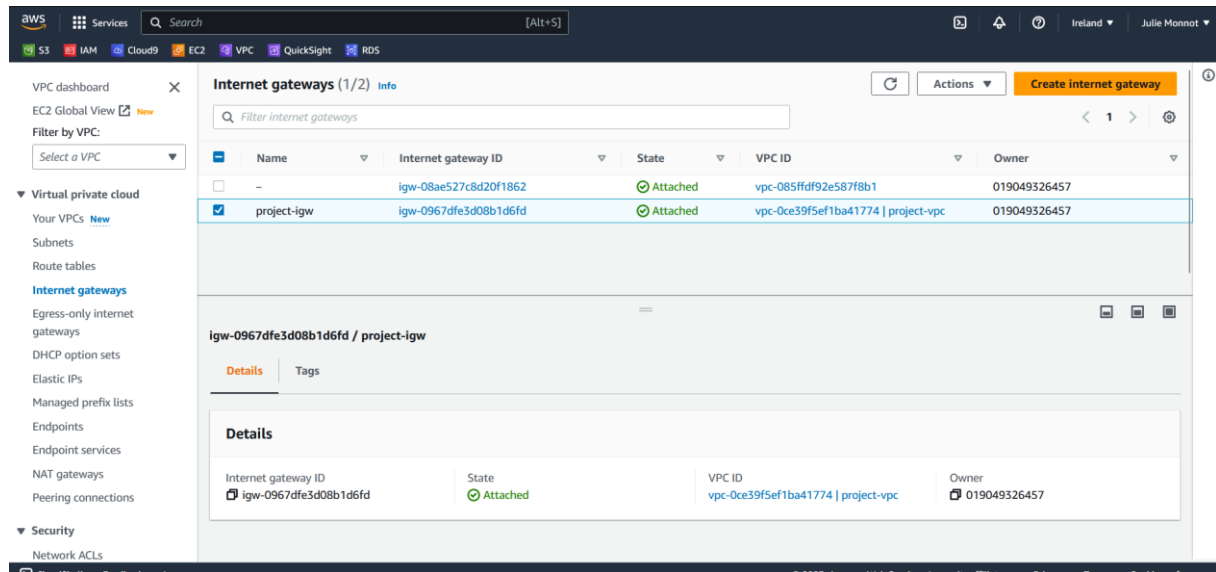
Find subnet association

Name	Subnet ID	IPv4 CIDR	IPv6 CIDR
project-subnet-private1-eu-west-1a	subnet-0828de2d915f339a1	10.0.128.0/20	-

Subnets without explicit associations (0)

The following subnets have not been explicitly associated with any route tables and are therefore associated with the main route table:

Internet gateways



The screenshot shows the AWS Management Console interface for Internet Gateways. The left sidebar contains navigation links for VPC services. The main content area displays a list of Internet Gateways and a detailed view for a specific gateway.

Internet gateways (1/2)

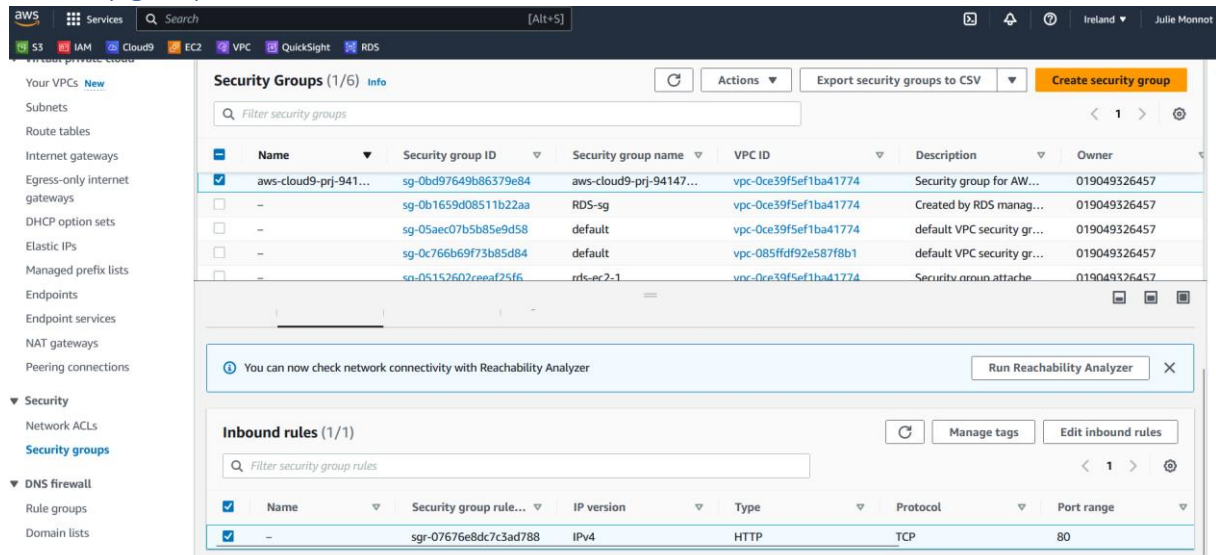
Name	Internet gateway ID	State	VPC ID	Owner
-	igw-08ae527c8d20f1862	Attached	vpc-085f92e587f8b1	019049326457
project-igw	igw-0967dfe3d08b1d6fd	Attached	vpc-0ce39f5ef1ba41774 project-vpc	019049326457

igw-0967dfe3d08b1d6fd / project-igw

Details

Internet gateway ID	State	VPC ID	Owner
igw-0967dfe3d08b1d6fd	Attached	vpc-0ce39f5ef1ba41774 project-vpc	019049326457

Security group



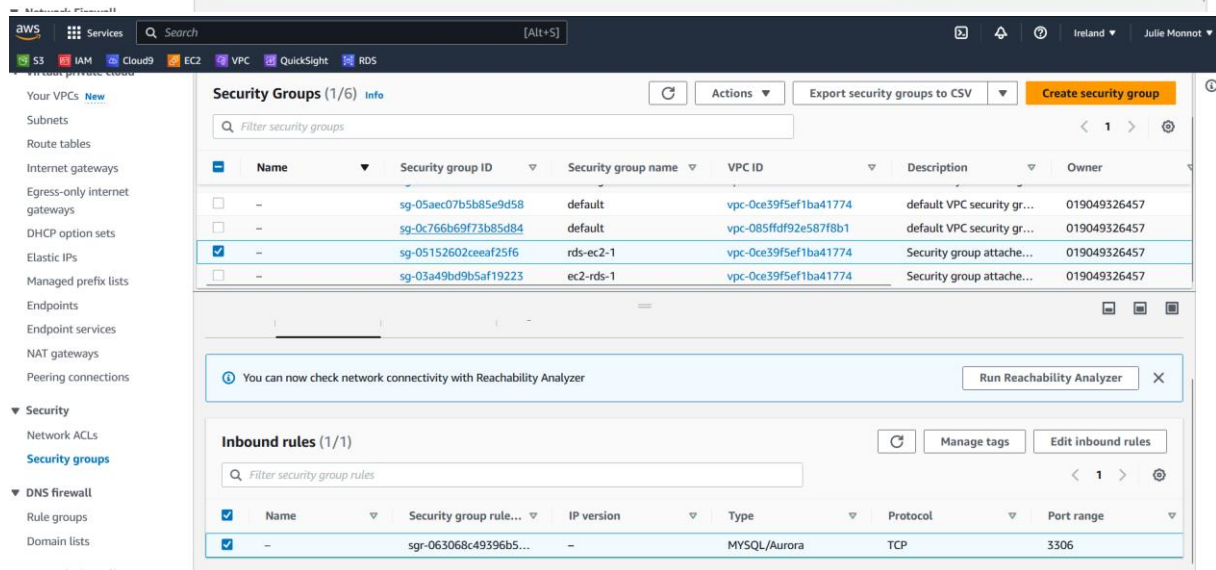
The screenshot shows the AWS Management Console interface for Security Groups. The left sidebar contains navigation links for VPC services. The main content area displays a list of Security Groups and a detailed view for a specific group.

Security Groups (1/6)

Name	Security group ID	Security group name	VPC ID	Description	Owner
aws-cloud9-prj-941...	sg-0bd97649b86379e84	aws-cloud9-prj-94147...	vpc-0ce39f5ef1ba41774	Security group for AW...	019049326457
-	sg-0b1659d08511b22aa	RDS-sg	vpc-0ce39f5ef1ba41774	Created by RDS manag...	019049326457
-	sg-05aec07b5b85e9d58	default	vpc-0ce39f5ef1ba41774	default VPC security gr...	019049326457
-	sg-0c766b69f73b85d84	default	vpc-085f92e587f8b1	default VPC security gr...	019049326457
-	sg-05152602ceaf25f6	rds-ec2-1	vpc-0ce39f5ef1ba41774	Security group attache...	019049326457

Inbound rules (1/1)

Name	Security group rule...	IP version	Type	Protocol	Port range
-	sgr-07676e8dc7c3ad788	IPv4	HTTP	TCP	80



The screenshot shows the AWS Management Console interface for Security Groups. The left sidebar contains navigation links for VPC services. The main content area displays a list of Security Groups and a detailed view for a specific group.

Security Groups (1/6)

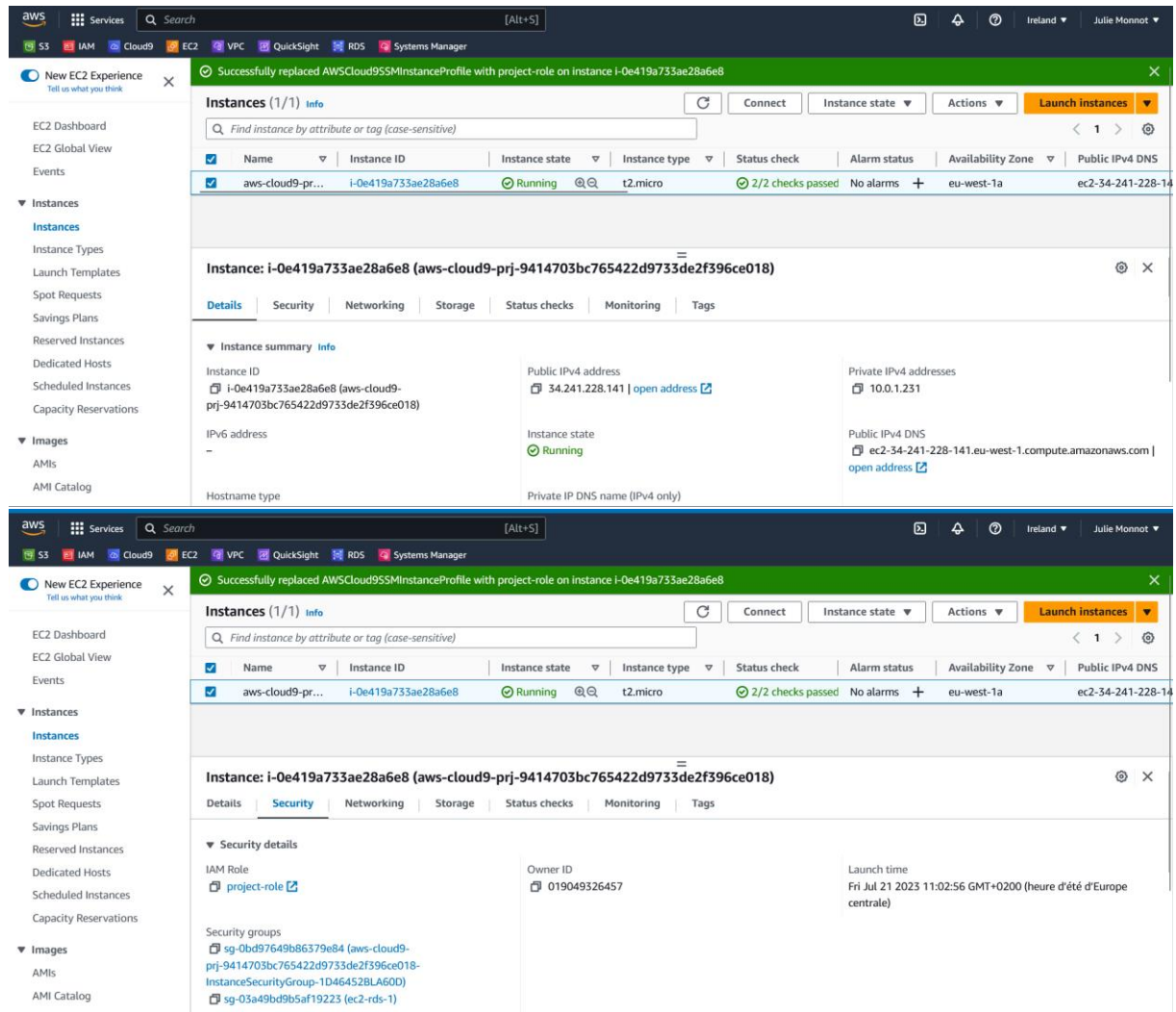
Name	Security group ID	Security group name	VPC ID	Description	Owner
-	sg-05aec07b5b85e9d58	default	vpc-0ce39f5ef1ba41774	default VPC security gr...	019049326457
-	sg-0c766b69f73b85d84	default	vpc-085f92e587f8b1	default VPC security gr...	019049326457
-	sg-05152602ceaf25f6	rds-ec2-1	vpc-0ce39f5ef1ba41774	Security group attache...	019049326457
-	sg-03a49bd9b5af19223	ec2-rds-1	vpc-0ce39f5ef1ba41774	Security group attache...	019049326457

Inbound rules (1/1)

Name	Security group rule...	IP version	Type	Protocol	Port range
-	sgr-063068c49396b5...	-	MYSQL/Aurora	TCP	3306

EC2

Instances



Instances (1/1) Info

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 DNS
aws-cloud9-pr...	i-0e419a733ae28a6e8	Running	t2.micro	2/2 checks passed	No alarms	eu-west-1a	ec2-34-241-228-14

Instance: i-0e419a733ae28a6e8 (aws-cloud9-prj-9414703bc765422d9733de2f396ce018)

Details | Security | Networking | Storage | Status checks | Monitoring | Tags

Instance summary Info

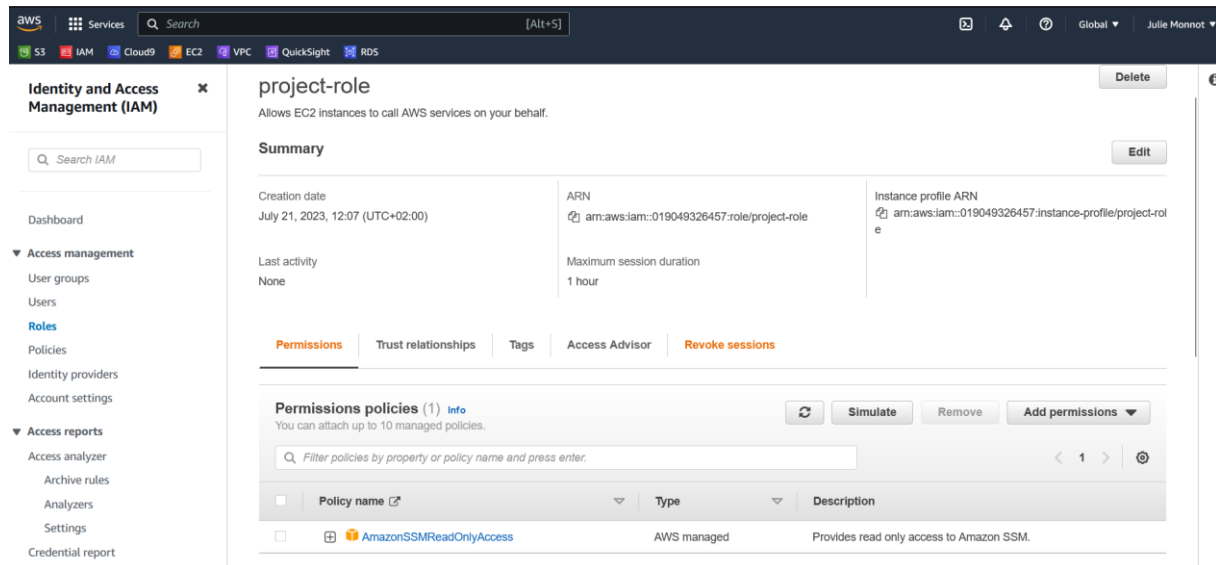
Instance ID i-0e419a733ae28a6e8 (aws-cloud9-prj-9414703bc765422d9733de2f396ce018)	Public IPv4 address 34.241.228.141 open address	Private IPv4 addresses 10.0.1.231
IPv6 address -	Instance state Running	Public IPv4 DNS ec2-34-241-228-141.eu-west-1.compute.amazonaws.com open address
Hostname type	Private IP DNS name (IPv4 only)	

Security details

IAM Role project-role	Owner ID 019049326457	Launch time Fri Jul 21 2023 11:02:56 GMT+0200 (heure d'été d'Europe centrale)
Security groups sg-0bd97649b86379e84 (aws-cloud9-prj-9414703bc765422d9733de2f396ce018-InstanceSecurityGroup-1D464528LA60D) sg-03a49bd9b5af19223 (ec2-rds-1)		

IAM

Roles



The screenshot displays the AWS IAM console interface. The left sidebar shows the 'Identity and Access Management (IAM)' menu with options like Dashboard, Access management, Roles, Policies, and Access reports. The main content area shows the details for a role named 'project-role'. The role's summary includes its creation date (July 21, 2023), ARN, and instance profile ARN. The 'Permissions' tab is active, showing a list of attached policies, including 'AmazonSSMReadOnlyAccess'.

project-role Delete

Allows EC2 instances to call AWS services on your behalf.

Summary Edit

Creation date	ARN	Instance profile ARN
July 21, 2023, 12:07 (UTC+02:00)	arn:aws:iam::019049326457:role/project-role	arn:aws:iam::019049326457:instance-profile/project-role
Last activity	Maximum session duration	
None	1 hour	

Permissions | Trust relationships | Tags | Access Advisor | Revoke sessions

Permissions policies (1) Info

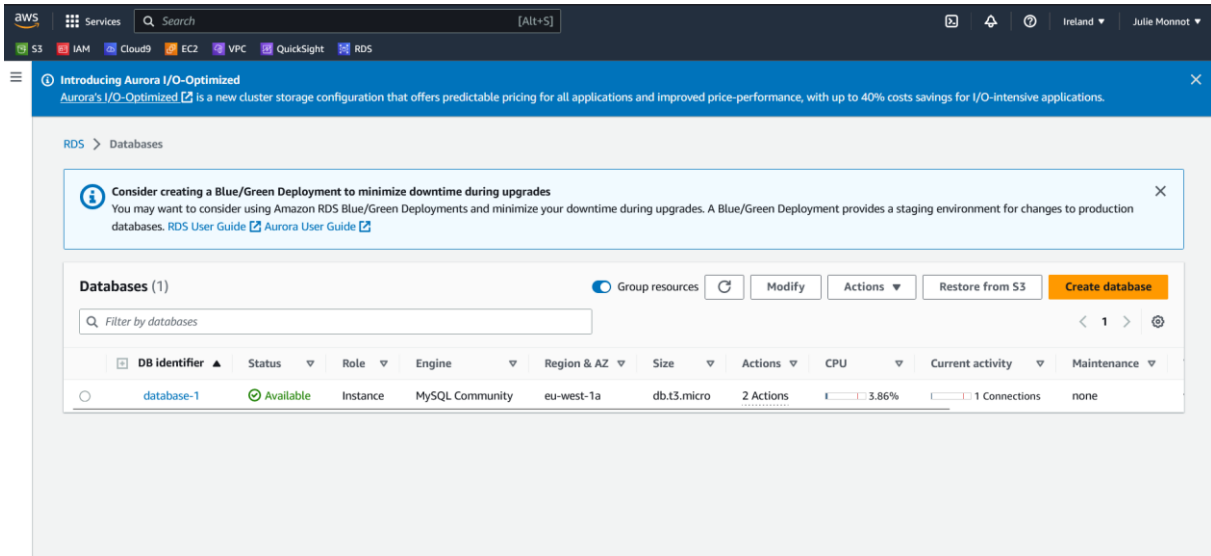
You can attach up to 10 managed policies.

< 1 > ⊕

<input type="checkbox"/>	Policy name ?	Type	Description
<input type="checkbox"/>	AmazonSSMReadOnlyAccess	AWS managed	Provides read only access to Amazon SSM.

RDS

Database



The screenshot shows the AWS Management Console interface for the RDS Databases section. At the top, there's a navigation bar with the AWS logo, a search bar, and a list of services including S3, IAM, Cloud9, EC2, VPC, QuickSight, and RDS. Below the navigation bar, there's a blue banner for "Introducing Aurora I/O-Optimized". The main content area is titled "RDS > Databases". A blue box contains a message about creating a Blue/Green Deployment. Below this, there's a section for "Databases (1)" with a search bar and a "Create database" button. A table lists the database instance "database-1" with details such as Status (Available), Role (Instance), Engine (MySQL Community), Region & AZ (eu-west-1a), Size (db.t3.micro), Actions (2 Actions), CPU (3.86%), Current activity (1 Connections), and Maintenance (none).

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S3 IAM Cloud9 EC2 VPC QuickSight RDS

Introducing Aurora I/O-Optimized
Aurora's I/O-Optimized is a new cluster storage configuration that offers predictable pricing for all applications and improved price-performance, with up to 40% costs savings for I/O-intensive applications.

RDS > Databases

Consider creating a Blue/Green Deployment to minimize downtime during upgrades
You may want to consider using Amazon RDS Blue/Green Deployments and minimize your downtime during upgrades. A Blue/Green Deployment provides a staging environment for changes to production databases. [RDS User Guide](#) [Aurora User Guide](#)

Databases (1) Group resources Modify Actions Restore from S3 Create database

Filter by databases

DB identifier ▲	Status ▼	Role ▼	Engine ▼	Region & AZ ▼	Size ▼	Actions ▼	CPU ▼	Current activity ▼	Maintenance ▼
database-1	Available	Instance	MySQL Community	eu-west-1a	db.t3.micro	2 Actions	3.86%	1 Connections	none

Connectivity & security

Endpoint & port	Networking	Security
Endpoint database-1.c4iqpyzxpnt.eu-west-1.rds.amazonaws.com	Availability Zone eu-west-1a	VPC security groups rds-ec2-1 (sg-05152602ceaf25f6) Active RDS-sg (sg-0b1659d08511b22aa) Active
Port 3306	VPC project-vpc (vpc-0ce39f5ef1ba41774)	Publicly accessible No
	Subnet group rds-ec2-db-subnet-group-1	Certificate authority info rds-ca-2019
	Subnets subnet-0be2df40d97540370 subnet-0fe6f30f89c84ceac subnet-01e137d3946b868b5	Certificate authority date August 22, 2024, 19:08 (UTC+02:00)
	Network type IPv4	DB instance certificate expiration date August 22, 2024, 19:08 (UTC+02:00)

Security group rules (3)

Filter by Security group rules

Security group	Type	Rule
rds-ec2-1 (sg-05152602ceaf25f6)	EC2 Security Group - Inbound	sg-03a49bd9b5af19223
RDS-sg (sg-0b1659d08511b22aa)	CIDR/IP - Inbound	217.26.204.244/32
RDS-sg (sg-0b1659d08511b22aa)	CIDR/IP - Outbound	0.0.0.0/0

Replication (1)

Filter by Replication

DB identifier	Role	Region & AZ	Replication source	Replication state	Lag
database-1	Instance	eu-west-1a	-	-	-

Proxies (0)

Filter by proxies

No proxies

You don't have any proxies.

Create proxy

Connected compute resources (1) info

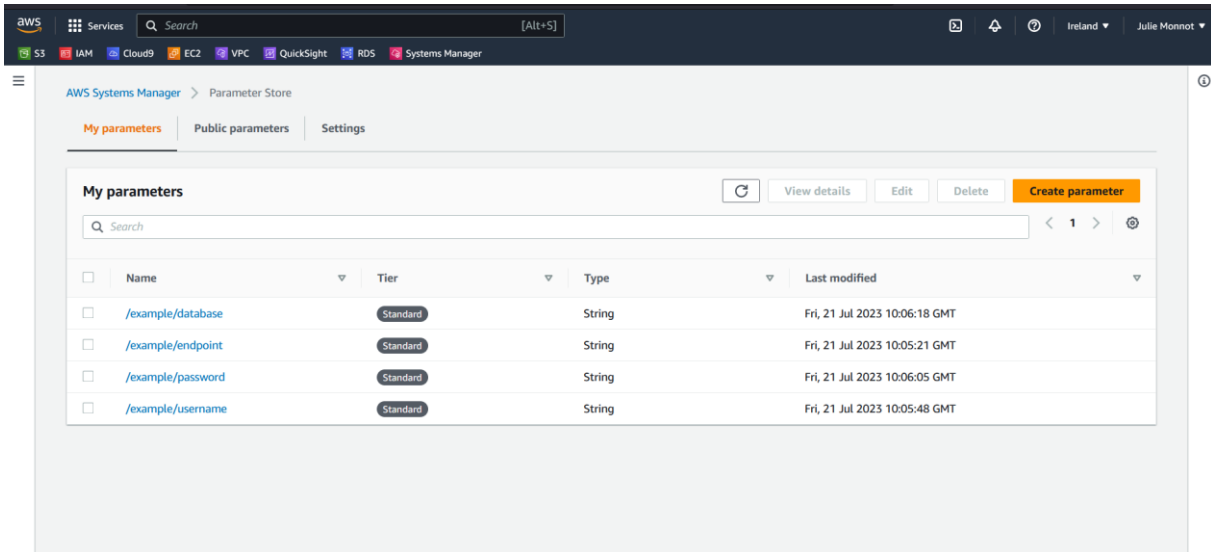
Connections to compute resources that were created automatically by RDS are shown here. Connections to compute resources that were created manually aren't shown.

Filter by compute resources

Resource identifier	Resource type	Availability zone	RDS security group	Compute resource security group
i-Oe419a733ae28a6e8	EC2 instance	eu-west-1a	rds-ec2-1	ec2-rds-1

SYSTEM MANAGER

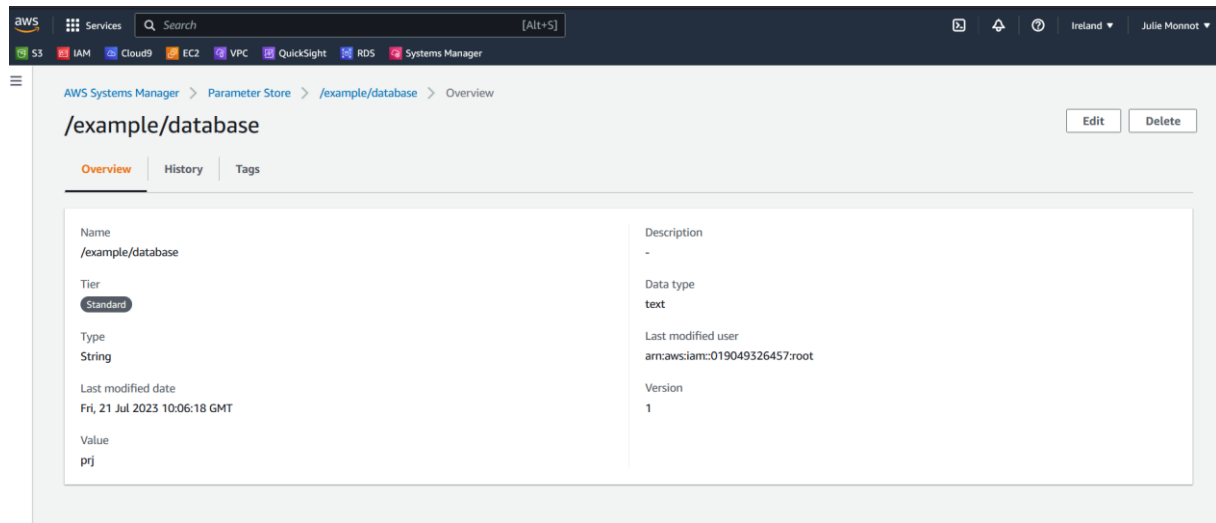
Parameters



The screenshot shows the AWS Systems Manager console interface. At the top, there's a navigation bar with the AWS logo, a search bar, and a list of services including S3, IAM, Cloud9, EC2, VPC, QuickSight, RDS, and Systems Manager. The user is logged in as Julie Monnot in the Ireland region. The main content area is titled 'AWS Systems Manager > Parameter Store'. It has three tabs: 'My parameters' (selected), 'Public parameters', and 'Settings'. Under 'My parameters', there's a search bar and a table of parameters. The table has columns for Name, Tier, Type, and Last modified. There are four parameters listed, all with a 'Standard' tier and 'String' type. A 'Create parameter' button is visible in the top right of the parameters list.

<input type="checkbox"/>	Name	Tier	Type	Last modified
<input type="checkbox"/>	/example/database	Standard	String	Fri, 21 Jul 2023 10:06:18 GMT
<input type="checkbox"/>	/example/endpoint	Standard	String	Fri, 21 Jul 2023 10:05:21 GMT
<input type="checkbox"/>	/example/password	Standard	String	Fri, 21 Jul 2023 10:06:05 GMT
<input type="checkbox"/>	/example/username	Standard	String	Fri, 21 Jul 2023 10:05:48 GMT

Database



The screenshot shows the AWS Parameter Store console. The breadcrumb navigation is "AWS Systems Manager > Parameter Store > /example/database > Overview". The parameter name is "/example/database". The tier is "Standard". The type is "String". The last modified date is "Fri, 21 Jul 2023 10:06:18 GMT". The value is "prj". The description is "-". The data type is "text". The last modified user is "arn:aws:iam::019049326457:root". The version is "1".

Name	Description
/example/database	-

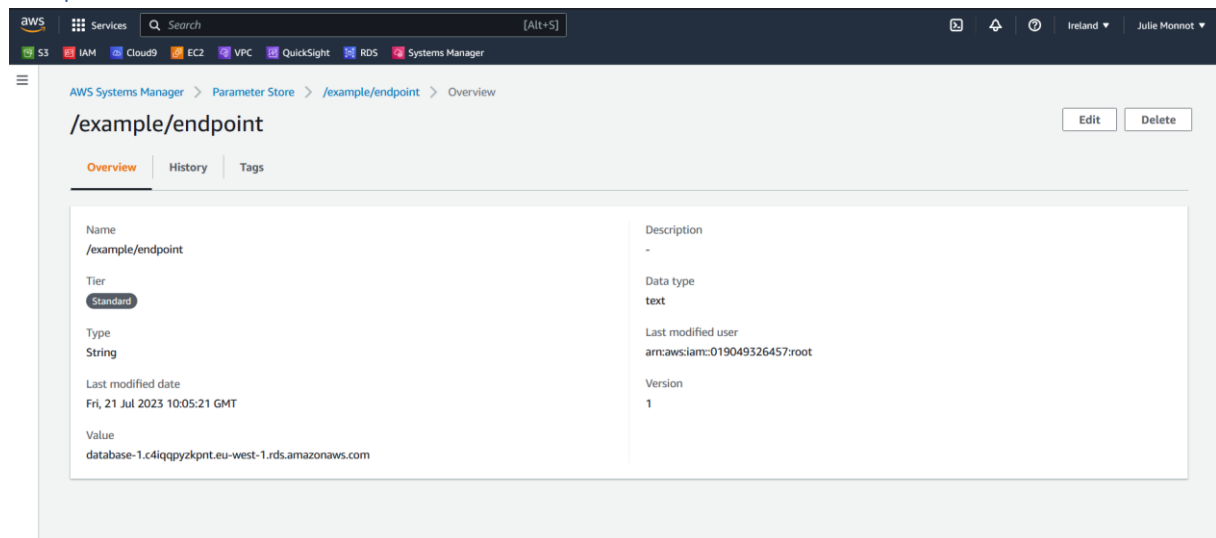
Tier	Data type
Standard	text

Type	Last modified user
String	arn:aws:iam::019049326457:root

Last modified date	Version
Fri, 21 Jul 2023 10:06:18 GMT	1

Value
prj

Endpoint



The screenshot shows the AWS Parameter Store console. The breadcrumb navigation is "AWS Systems Manager > Parameter Store > /example/endpoint > Overview". The parameter name is "/example/endpoint". The tier is "Standard". The type is "String". The last modified date is "Fri, 21 Jul 2023 10:05:21 GMT". The value is "database-1.c4iqppyzkprnt.eu-west-1.rds.amazonaws.com". The description is "-". The data type is "text". The last modified user is "arn:aws:iam::019049326457:root". The version is "1".

Name	Description
/example/endpoint	-

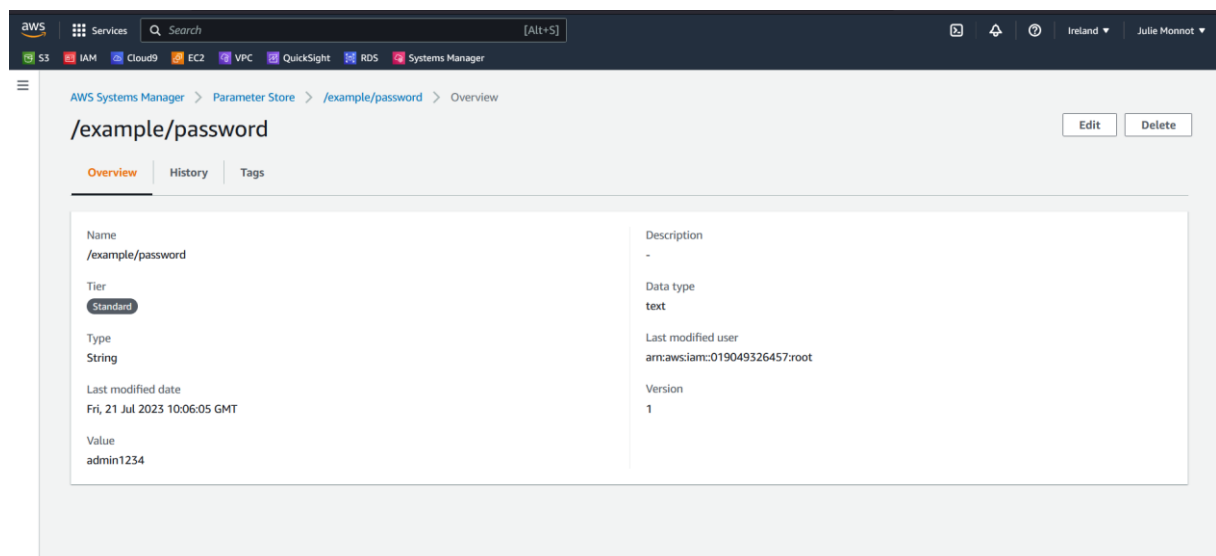
Tier	Data type
Standard	text

Type	Last modified user
String	arn:aws:iam::019049326457:root

Last modified date	Version
Fri, 21 Jul 2023 10:05:21 GMT	1

Value
database-1.c4iqppyzkprnt.eu-west-1.rds.amazonaws.com

Password



The screenshot shows the AWS Parameter Store console. The breadcrumb navigation is "AWS Systems Manager > Parameter Store > /example/password > Overview". The parameter name is "/example/password". The tier is "Standard". The type is "String". The last modified date is "Fri, 21 Jul 2023 10:06:05 GMT". The value is "admin1234". The description is "-". The data type is "text". The last modified user is "arn:aws:iam::019049326457:root". The version is "1".

Name	Description
/example/password	-

Tier	Data type
Standard	text

Type	Last modified user
String	arn:aws:iam::019049326457:root

Last modified date	Version
Fri, 21 Jul 2023 10:06:05 GMT	1

Value
admin1234

Username

AWS

Services

Search

[Alt+S]

S3IAMCloud9EC2VPCQuickSightRDSSystems Manager

< >

AWS Systems Manager > Parameter Store > /example/username > Overview

/example/username

EditDelete

OverviewHistoryTags

Name
/example/username

Tier
Standard

Type
String

Last modified date
Fri, 21 Jul 2023 10:05:48 GMT

Value
admin

Description
-

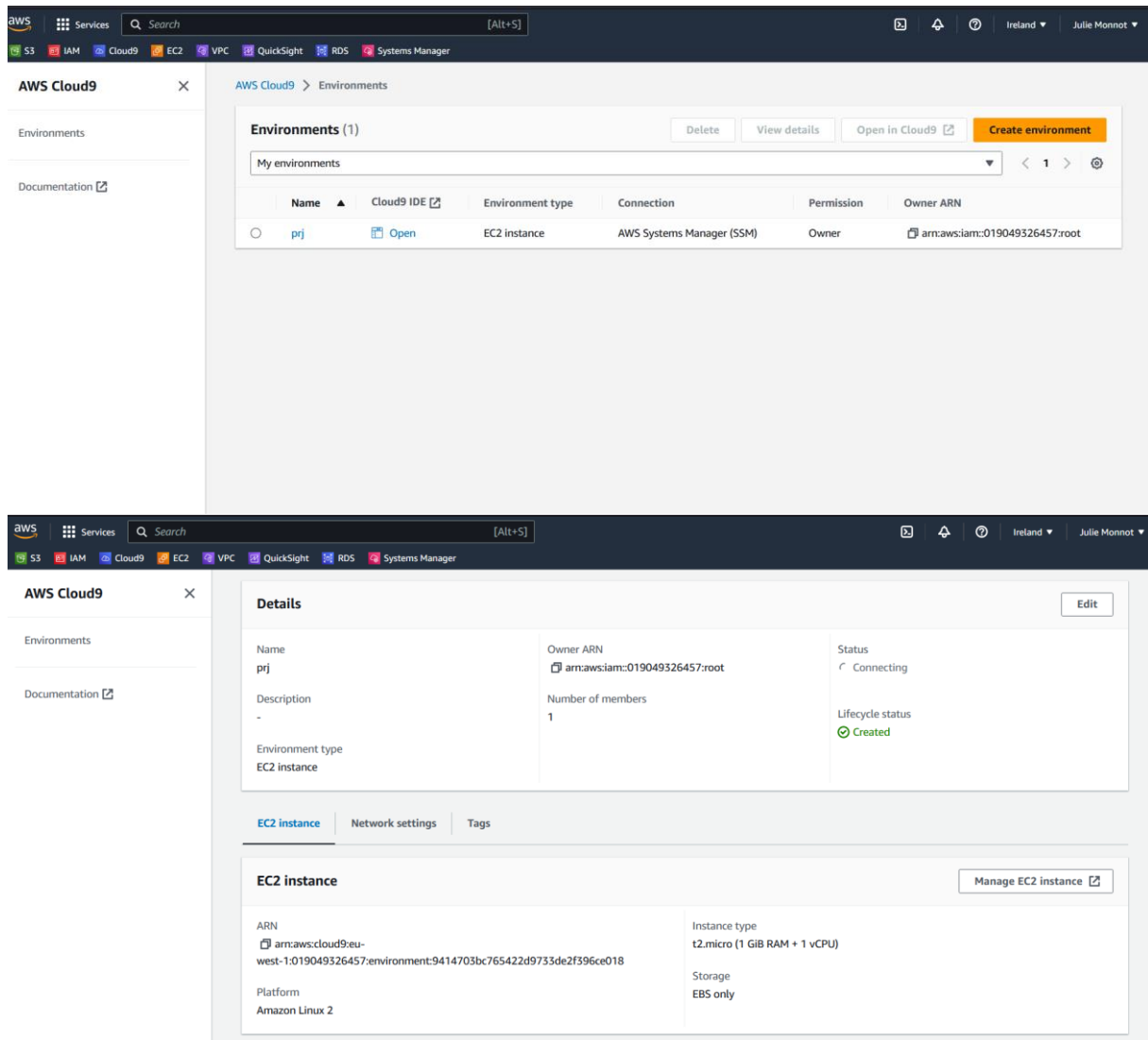
Data type
text

Last modified user
arn:aws:iam::019049326457:root

Version
1

CLOUD 9

Environment



The screenshot displays the AWS Cloud9 console interface. The top navigation bar includes the AWS logo, a search bar, and service icons for S3, IAM, Cloud9, EC2, VPC, QuickSight, RDS, and Systems Manager. The user's profile 'Julie Monnot' is visible in the top right corner.

The left sidebar shows the 'AWS Cloud9' menu with options for 'Environments' and 'Documentation'.

The main content area is titled 'Environments (1)' and features a 'Create environment' button. Below this is a table listing the environments:

Name	Cloud9 IDE	Environment type	Connection	Permission	Owner ARN
prj	Open	EC2 instance	AWS Systems Manager (SSM)	Owner	arn:aws:iam::019049326457:root

The 'Details' view for the 'prj' environment is shown below. It includes an 'Edit' button and a table with the following information:

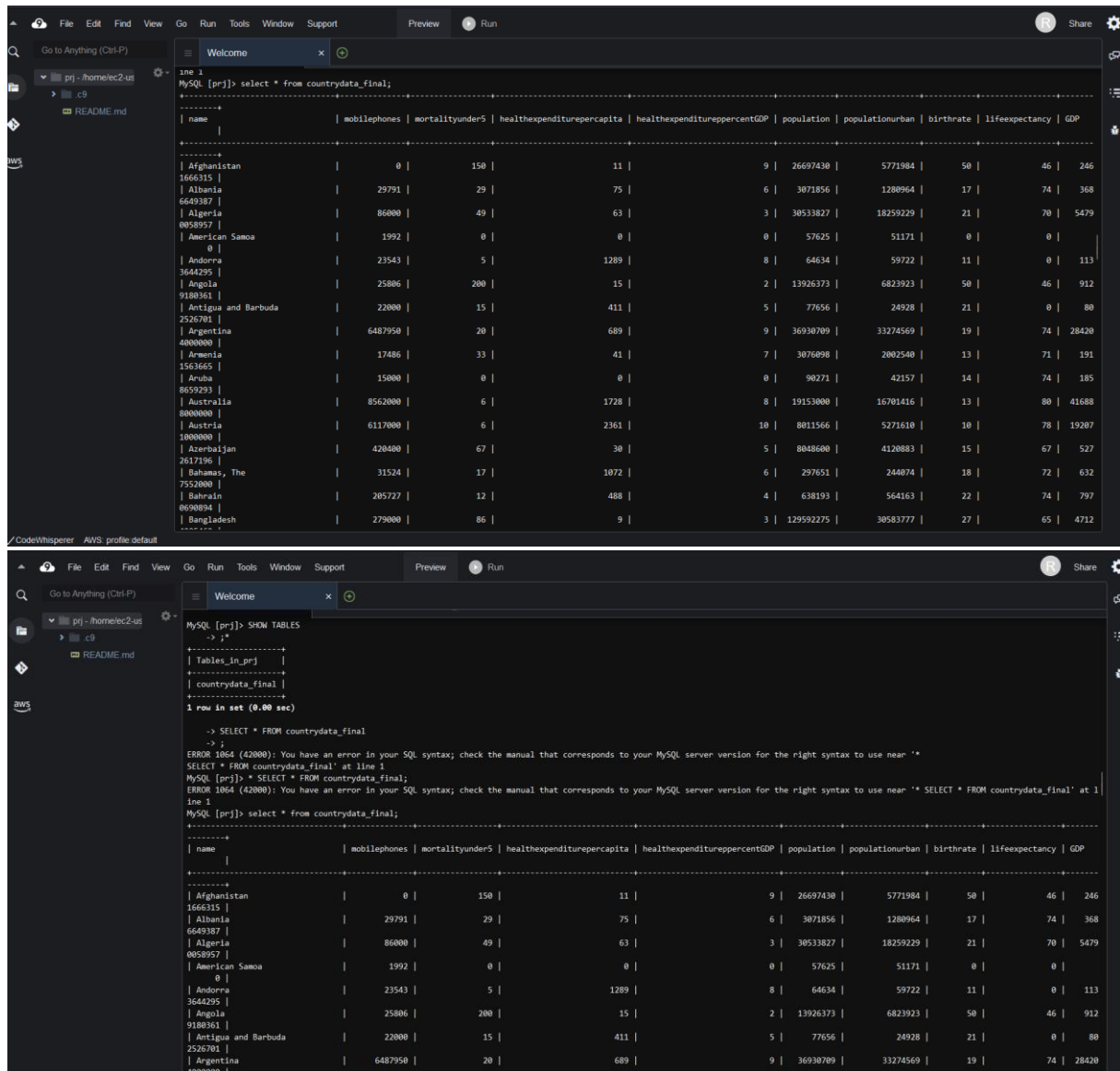
Name	Owner ARN	Status
prj	arn:aws:iam::019049326457:root	Connecting

Additional details include:

- Description: -
- Environment type: EC2 instance
- Number of members: 1
- Lifecycle status: Created

The 'EC2 instance' tab is selected, showing the instance type 't2.micro (1 GiB RAM + 1 vCPU)' and storage 'EBS only'. The instance ARN is 'arn:aws:cloud9:eu-west-1:019049326457:environment:9414703bc765422d9733de2f396ce018' and the platform is 'Amazon Linux 2'.

Cloud 9 IDE



The screenshot displays the Cloud 9 IDE interface with a MySQL terminal window. The terminal shows the execution of a SQL query to select all data from the 'countrydata_final' table. The output is a table with 11 columns: name, mobilephones, mortalityunder5, healthexpenditurepercapita, healthexpenditurepercentGDP, population, populationurban, birthrate, lifeexpectancy, and GDP. The table lists data for various countries, including Afghanistan, Albania, Algeria, American Samoa, Andorra, Angola, Argentina, Aruba, Australia, Austria, Azerbaijan, Bahamas, Bahrain, and Bangladesh.

MySQL [prj]> select * from countrydata_final;

name	mobilephones	mortalityunder5	healthexpenditurepercapita	healthexpenditurepercentGDP	population	populationurban	birthrate	lifeexpectancy	GDP
Afghanistan	0	150	11	9	26697430	5771984	50	46	246
Albania	29791	29	75	6	3071856	1280964	17	74	368
Algeria	86000	49	63	3	30533827	18259229	21	70	5479
American Samoa	1992	0	0	0	57625	51171	0	0	0
Andorra	23543	5	1289	8	64634	59722	11	0	113
Angola	25806	200	15	2	13926373	6823923	50	46	912
Antigua and Barbuda	22000	15	411	5	77656	24928	21	0	80
Argentina	6487950	20	689	9	36930709	33274569	19	74	28420
Aruba	15000	0	41	7	3076098	2002540	13	71	191
Australia	8562000	6	1728	8	19153000	16701416	13	80	41688
Austria	6117000	6	2361	10	8011566	5271610	10	70	19207
Azerbaijan	420400	67	30	5	8048600	4120883	15	67	527
Bahamas, The	31524	17	1072	6	297051	244074	18	72	632
Bahrain	205727	12	488	4	638193	564163	22	74	797
Bangladesh	279000	86	9	3	129592275	30583777	27	65	4712

MySQL [prj]> SHOW TABLES

```

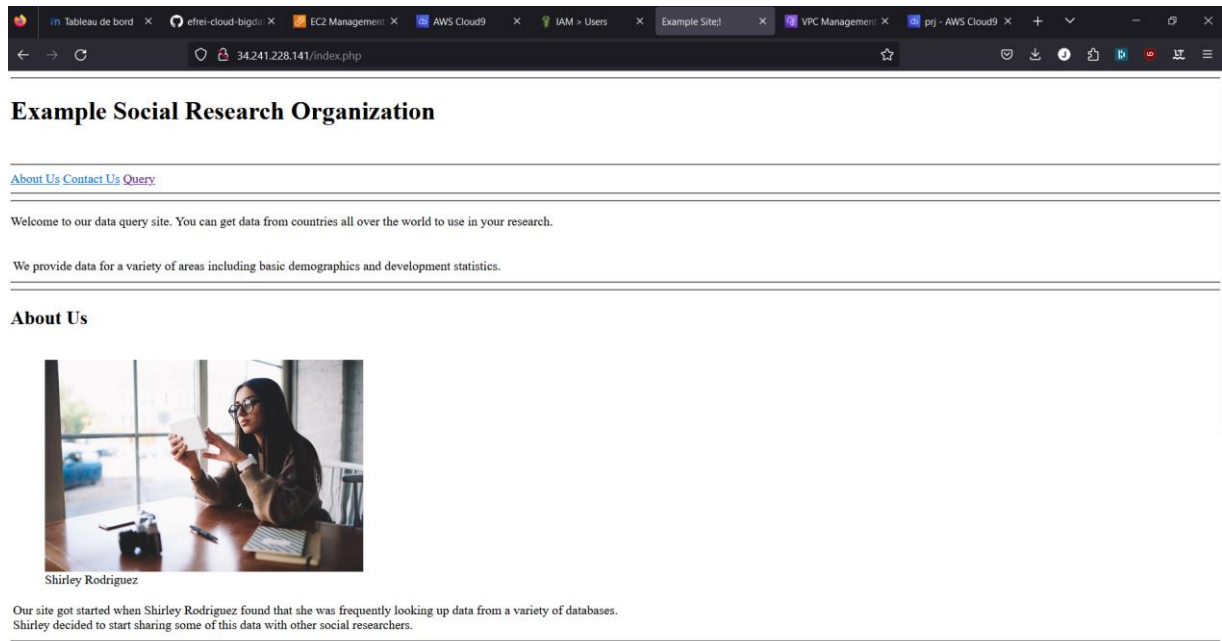
-> *
+-----+
| Tables_in_prj |
+-----+
| countrydata_final |
+-----+
1 row in set (0.00 sec)

-> SELECT * FROM countrydata_final
-> *
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near ''
MySQL [prj]> * SELECT * FROM countrydata_final;
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near '' * SELECT * FROM countrydata_final' at line 1
MySQL [prj]> select * from countrydata_final;

```


WEBSITE

Homepage



The screenshot shows a web browser window with multiple tabs. The active tab is titled "Example Site!". The address bar shows the URL "34.241.228.141/index.php". The website content includes a header with the title "Example Social Research Organization", a navigation bar with links "About Us", "Contact Us", and "Query", and a main body with a welcome message and a photo of Shirley Rodriguez.


Example Social Research Organization

[About Us](#) [Contact Us](#) [Query](#)

Welcome to our data query site. You can get data from countries all over the world to use in your research.

We provide data for a variety of areas including basic demographics and development statistics.

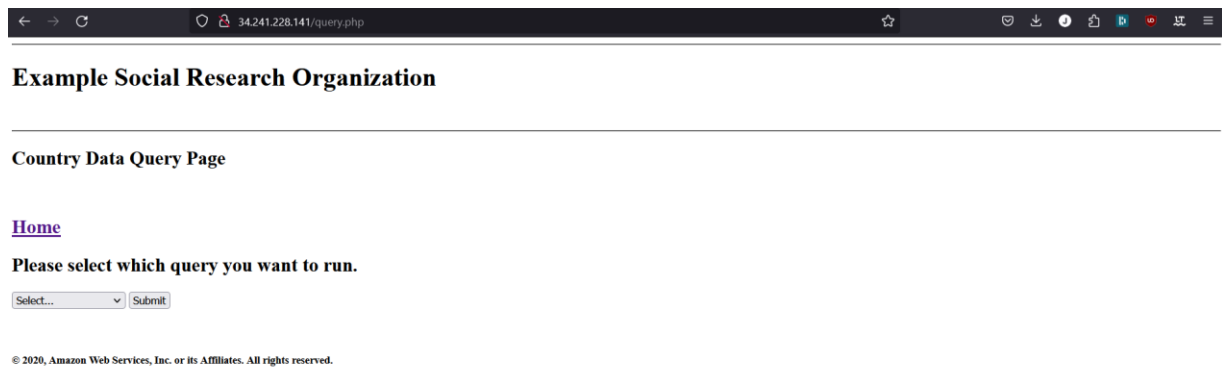
About Us



Shirley Rodriguez

Our site got started when Shirley Rodriguez found that she was frequently looking up data from a variety of databases. Shirley decided to start sharing some of this data with other social researchers.

Queries



The screenshot shows a web browser window with the URL "34.241.228.141/query.php". The website content includes a header with the title "Example Social Research Organization", a navigation bar with links "Home" and "Query", and a main body with a country data query page.

Example Social Research Organization

Country Data Query Page

[Home](#)

Please select which query you want to run.

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Mobile phone

[Pick another query](#)

This is a Country Name	Number of mobile phone providers
Afghanistan	0
Albania	29791
Algeria	86000
American Samoa	1992
Andorra	23543
Angola	25806
Antigua and Barbuda	22000
Argentina	6487950
Armenia	17486
Aruba	15000
Australia	8562000
Austria	6117000
Azerbaijan	420400
Bahamas, The	31524
Bahrain	205727
Bangladesh	279000
Barbados	28467
Belarus	49353
Belgium	5629000
Belize	16812
Benin	55476
Bermuda	13000
Bhutan	0
Bolivia	582620
Bosnia and Herzegovina	93386
Botswana	222190
Brazil	23188171
Brunei Darussalam	95000
Bulgaria	738000
Burkina Faso	25245

Life expectancy

[Pick another query](#)

Country Name	Birth Rate	Life Expectancy
Afghanistan	50	46
Albania	17	74
Algeria	21	70
American Samoa	0	0
Andorra	11	0
Angola	50	46
Antigua and Barbuda	21	0
Argentina	19	74
Armenia	13	71
Aruba	14	74
Australia	13	80
Austria	10	78
Azerbaijan	15	67
Bahamas, The	18	72
Bahrain	22	74
Bangladesh	27	65
Barbados	12	76
Belarus	9	69
Belgium	11	78
Belize	30	74
Benin	43	53
Bermuda	14	78
Bhutan	27	62
Bolivia	31	63
Bosnia and Herzegovina	11	75
Botswana	27	51
Brazil	21	70
Brunei Darussalam	23	77
Bulgaria	9	72
Burkina Faso	45	50