Public Route Table	
local	0.0.0.0/0
igw-	0.0.0.0/0
subnet associated	public subnet 1

Private Route Table	
nat-	0.0.0.0/0
local	10.1.0.0/16
subnet associated	private subnet 1

Web Server Security Group

Inbound Rules: Allows HTTPS & HTTP Traffic & MySQL/Aurora traffic from the App Server SG

Outbound Rules: Allows HTTP & HTTPS traffic to go out.

App Server Security Group

Inbound rules: Allows traffic from the internet as HTTP & HTTPS, traffic from the MariaDB SG, as well as traffic from the Bastion Host Security Group

Outbound Rules: Allows HTTP, HTTPS the internet, SSH to only the Bastion Host SG as well as MySQL/Aurora traffic to the web server group as well as the Mariadb SG
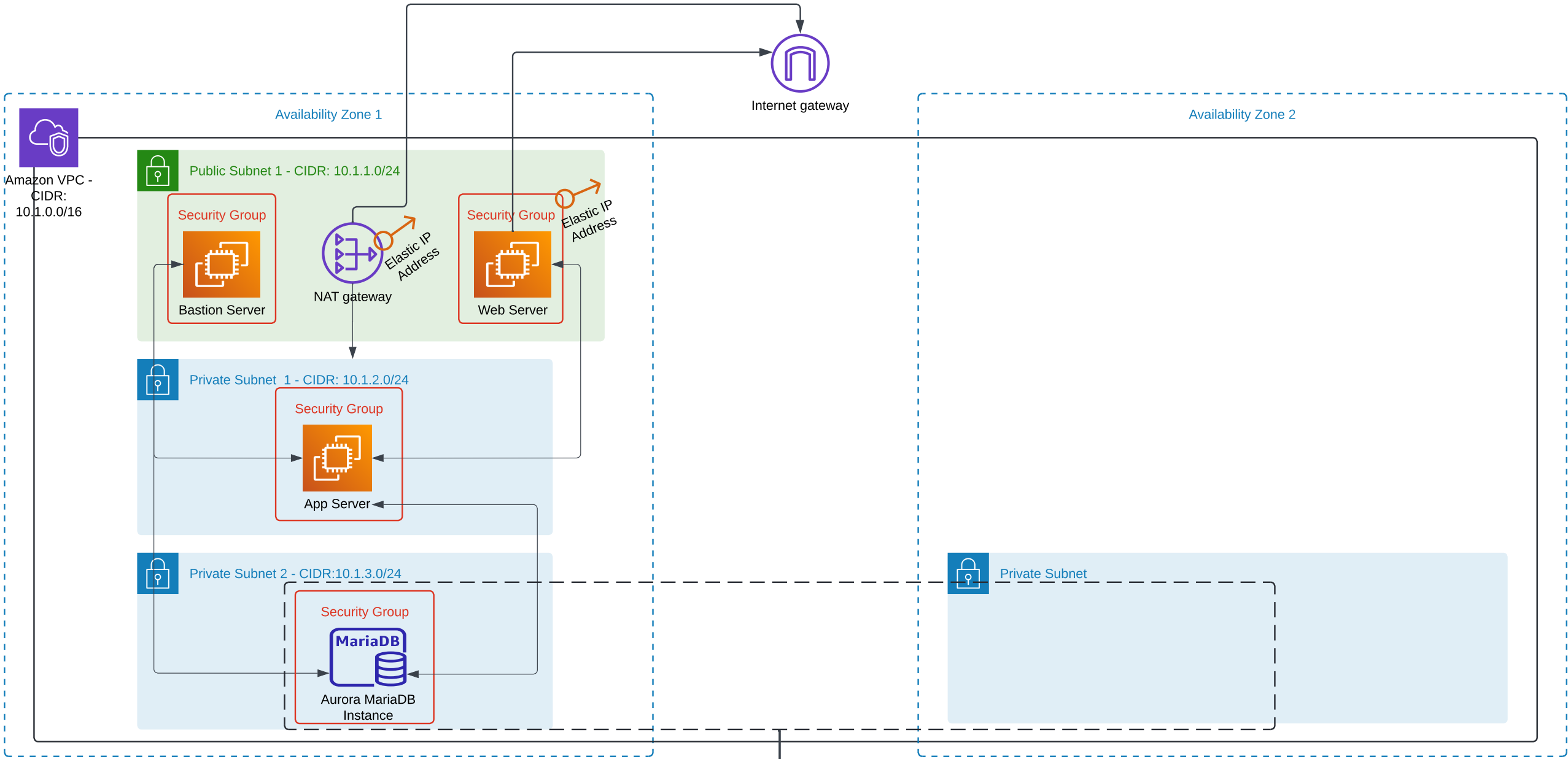
Bastion Server Security Group

Inbound rules: Allows ssh traffic from anywhere ipv4

Outbound rules: Allows SSH traffic to only App Server

DB Instance Security Group

Inbound Rules: Allows MySQL/Aurora traffic from the app server ip range

Outbound: Allows only mysql/aurora traffic to App Server SG

Internet gateway

Amazon VPC - CIDR: 10.1.0.0/16

Availability Zone 1

Public Subnet 1 - CIDR: 10.1.1.0/24

Security Group

Bastion Server

NAT gateway

Elastic IP Address

Security Group

Web Server

Elastic IP Address

Private Subnet 1 - CIDR: 10.1.2.0/24

Security Group

App Server

Private Subnet 2 - CIDR:10.1.3.0/24

Security Group

MariaDB

Aurora MariaDB Instance

Availability Zone 2

Private Subnet

DB Subnet Group		
private subnet 2	10.1.2.0/24	Availability Zone 1
private subnet 3	10.1.2.0/24	Availability Zone 2