**AWS Lab 1: Introduction to Amazon VPC**

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**Purpose**

The purpose of this lab was to start getting familiar with VPCs with AWS and how to begin navigating the configures in each VPC as well as creating subnets connected to the VPCs.

**Process**

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The first step to creating VPCs was to navigate to the dashboard to where the VPCs are. This can be done through looking up “VPC” in the search bar of the console.

![Graphical user interface, application

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The next step is to create the VPC. To do this, you have to click on the VPC option after looking it up in the search bar of the console. Once clicking there, there will be a dashboard to the left where there are multiple options to work with your VPC. To create one you must click on “Create VPC” and once clicking there this screen will appear. For this lab I named my VPC “MyVPC” and created an IPv4 CLDR block with an id of 10.0.0.0/16 with no IPv6 CLDR.

Graphical user interface, application

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Once the VPC has been created, in the dashboard to the left, I created a private and public and private subnet by first clicking on “subnets” in the dashboard. This can be done by first selecting the VPC that was previously created, and by naming this subnet “Public Subnet 1” with an IPv4 CLDR block of 10.0.1.0/24.

Graphical user interface, application

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The same thing was done to create a private subnet, except this time it an IPv4 CLDR block with an id of 10.0.2.0/24 with no IPv6 CLDR.

![Graphical user interface

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After having created the subnets, an internet gateway must be created for the VPC so that the public subnet can access the BitBeat servers.

![Graphical user interface, application

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Creating the Internet Gateway isn’t all that’s needed to be done, so the Internet Gateway must be attached to the VPC in order for it to work.

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Next, a route table will be created from the dashboard to the left. From there, the VPC that was previously created must be selected to decide where the route table will be created.

![Graphical user interface

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A default route must be created for all traffic to be able to travel outside the subnet and back into the subnet. To do this, you can click on “Edit routes” tab in the route table and there you can select the internet gateway to decide where the route will be created.

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Finally, you can check on all the routes by simply going to Route Tables in the dashboard and selecting on your desired VPC. This will show the subnet’s id that are connected to the routes and the route.