

# Creating simple 3-tier web architecture using AWS

Create a VPC and 9 subnet using this CIDR

170.20.0.0/20 for your VPC

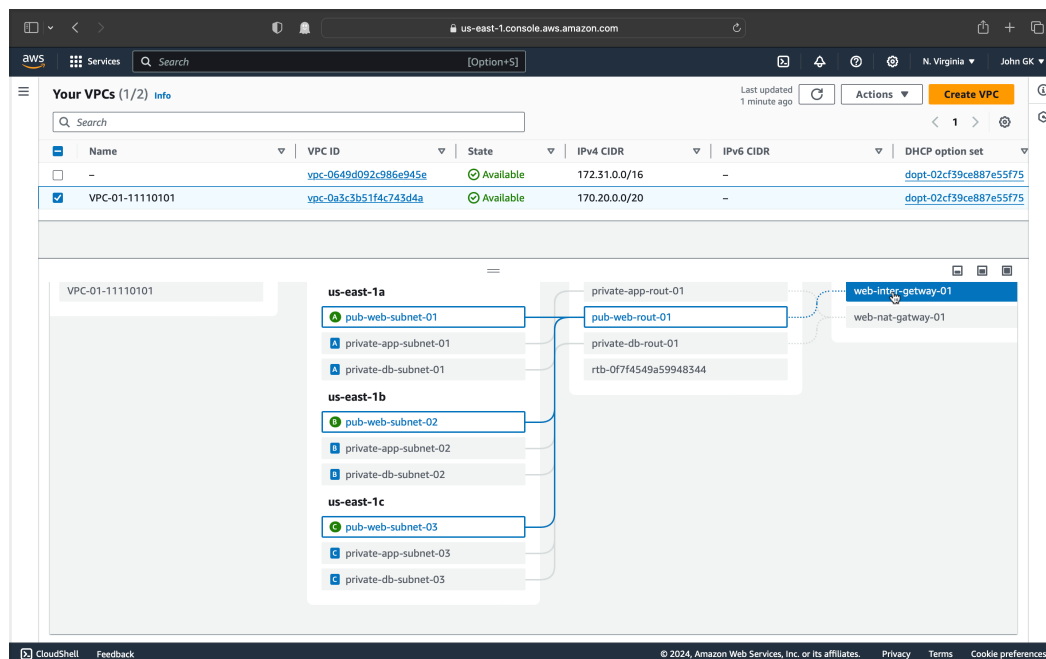
Use those CIDR for ur subnet

170.20.1.0/24	170.20.4.0/24	170.20.7.0/24
170.20.2.0/24	170.20.5.0/24	170.20.8.0/24
170.20.3.0/24	170.20.6.0/24	170.20.9.0/24
[PUB-WEB-subnet-01]	[private-app-subnet-01]	[private-db-subnet-01]

After u create your VPC and subnet know let create route / inter-getaway and nat-gateway

- Create Rout-table for each subnet groups and associations
- Once u create and associates your subnet ( create new rule that allowed new target for you nat-gateway)

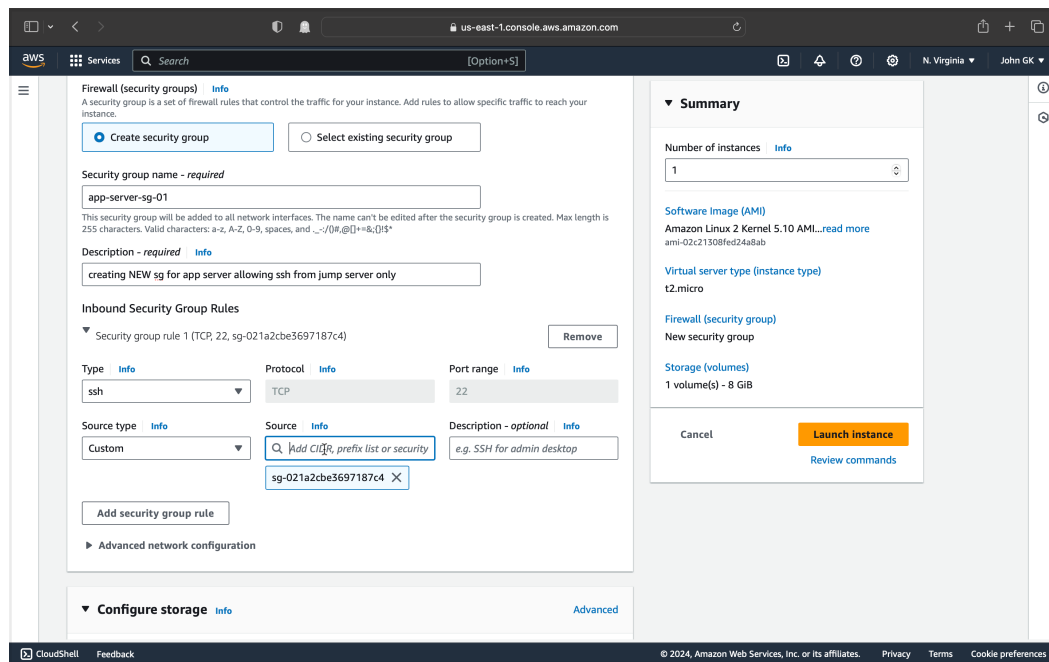
Your network configuration should look like this after ur finish setting up



Now after we finish create your network infrastructure, now let lunch our ec2 using the about network that we configure

Create ec2 using the public subnet for ur jumper server( create new security group / allow ssh and HTTP protocols only )

Create anther 2 ec2. For you app using the private-app-subnet (create new security group for ur app server with new protocol that allow traffic from you jumper server only )

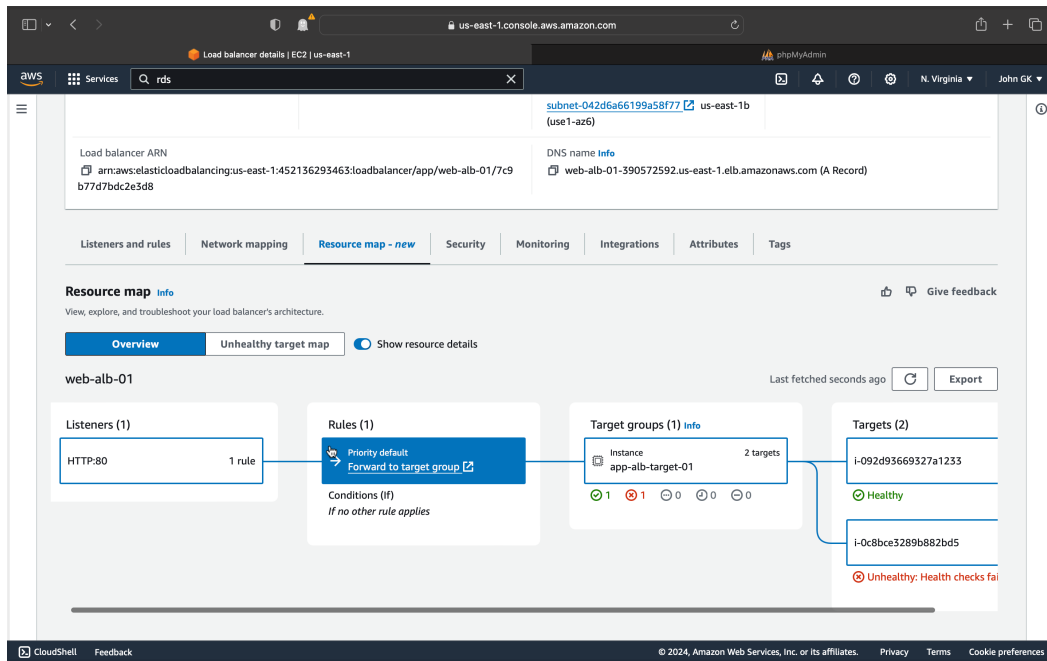


Once you create your ec2 configure simple LMAP server (<https://docs.aws.amazon.com/linux/a12/ug/ec2-lamp-amazon-linux-2.html>) use this doc.

Now let create ALB and RDS(Mysql)

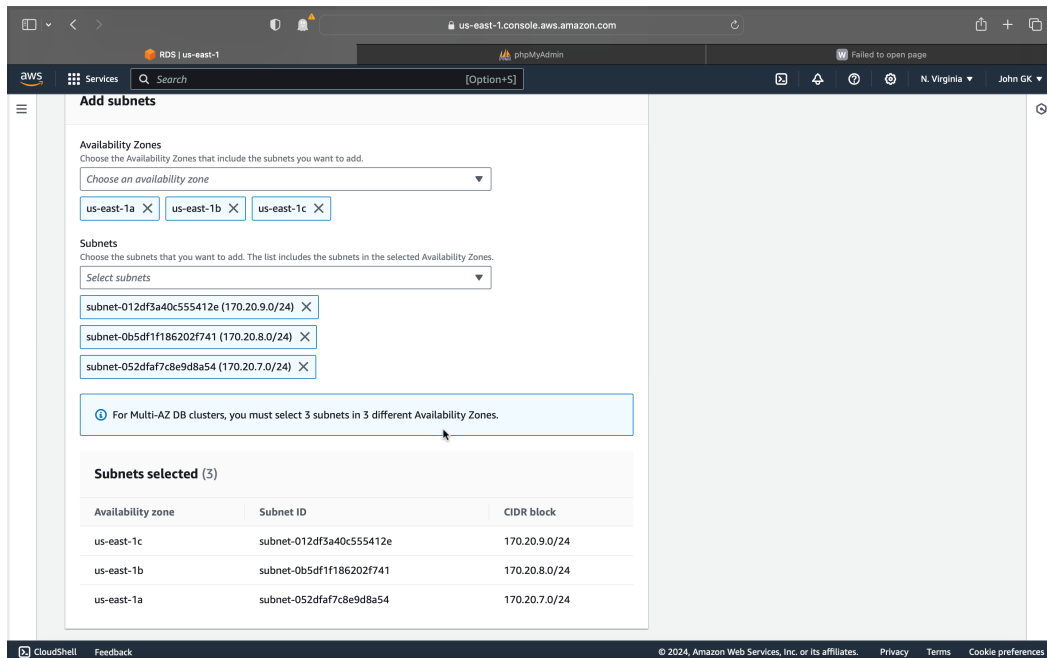
Creating ALB and Target group

once you create it your resources map should look like this ( make sure to create new security groups and add it in your app-server security-groups with port 80 )



Create RDS (MySQL data base)

Create subnet group for multi-availability cluster



Once you create ur subnet group and you desire data base cope the end-point and place it in config.inc.php ( located in /var/www/html/phpMyAdmin/ )

```

<?php
/**
 * phpMyAdmin sample configuration, you can use it as base for
 * manual configuration. For easier setup you can use setup/
 *
 * All directives are explained in documentation in the doc/ folder
 * or at <https://docs.phpmyadmin.net/>.
 */

declare(strict_types=1);

/**
 * This is needed for cookie based authentication to encrypt the cookie.
 * Needs to be a 32-bytes long string of random bytes. See FAQ 2.10.
 */
$config['blowfish_secret'] = ''; /* YOU MUST FILL IN THIS FOR COOKIE AUTH! */

/**
 * Servers configuration
 */
$i = 0;

/**
 * First server
 */
$i++;
/* Authentication type */
$config['Servers'][$i]['auth_type'] = 'cookie';
/* Server parameters */
$config['Servers'][$i]['host'] = 'web-01-390572692.us-east-1.elb.amazonaws.com';
$config['Servers'][$i]['compress'] = false;
$config['Servers'][$i]['AllowNoPassword'] = false;

/**
 * phpMyAdmin configuration storage settings.
 */

/* User used to manipulate with storage */
// $config['Servers'][$i]['controlhost'] = '';
// $config['Servers'][$i]['controlport'] = '';
// $config['Servers'][$i]['controluser'] = 'pma';
// $config['Servers'][$i]['controlpass'] = 'pmapass';

/* Storage database and tables */
// $config['Servers'][$i]['pmadb'] = 'phpmyadmin';
// $config['Servers'][$i]['bookmarktable'] = 'pma_bookmark';
// $config['Servers'][$i]['relation'] = 'pma_relation';
// $config['Servers'][$i]['table_info'] = 'pma_table_info';
// $config['Servers'][$i]['table_coords'] = 'pma_table_coords';
// $config['Servers'][$i]['pdf_pages'] = 'pma_pdf_pages';
// $config['Servers'][$i]['column_info'] = 'pma_column_info';
// $config['Servers'][$i]['history'] = 'pma_history';
// $config['Servers'][$i]['table_uiprefs'] = 'pma_table_uiprefs';
// $config['Servers'][$i]['tracking'] = 'pma_tracking';
// $config['Servers'][$i]['userconfig'] = 'pma_userconfig';
// $config['Servers'][$i]['recent'] = 'pma_recent';
// $config['Servers'][$i]['favorite'] = 'pma_favorite';
// $config['Servers'][$i]['users'] = 'pma_users';
// $config['Servers'][$i]['usergroups'] = 'pma_usergroups';
// $config['Servers'][$i]['navigationhiding'] = 'pma_navigationhiding';
// $config['Servers'][$i]['savedsearches'] = 'pma_savedsearches';
// $config['Servers'][$i]['central_columns'] = 'pma_central_columns';

```

34,3 Top

Not Secure — web-elb-01-390572692.us-east-1.elb.amazonaws.com

phpMyAdmin

Welcome to phpMyAdmin

⚠ Login without a password is forbidden by configuration  
(see AllowNoPassword)

Language  
English

Log in

Username: admin

Password: .....

Log in

Finley check for your web server is running

Not Secure - web-alb-01-390572592.us-east-1.elb.amazonaws.com

phpMyAdmin

Recent Favorites

- New
- information\_schema
- mysql
- performance\_schema
- sys

Server: web-rds-01.cxjgw0gcaw24.us-east-1.rds.amazonaws.com

Databases SQL Status User accounts Export Import Settings Binary log Replication Variables More

### General settings

- Change password
- Server connection collation: utf8mb4\_unicode\_ci
- More settings

### Appearance settings

- Language: English
- Theme: pmahomme View all

### Database server

- Server: web-rds-01.cxjgw0gcaw24.us-east-1.rds.amazonaws.com via TCP/IP
- Server type: MySQL
- Server connection: SSL is not being used
- Server version: 8.0.35 - Source distribution
- Protocol version: 10
- User: admin@170.20.4.210
- Server charset: UTF-8 Unicode (utf8mb4)

### Web server

- Apache/2.4.62 ()
- Database client version: libmysql - mysqlnd 8.2.19
- PHP extension: mysqli curl
- PHP version: 8.2.19

### phpMyAdmin

- Version information: 5.2.1 (up to date)
- Documentation
- Official Homepage
- Contribute
- Get support
- List of changes
- License

Console: mbstring PHP extension was not found and you seem to be using a multibyte charset. Without the mbstring extension phpMyAdmin is unable to split strings correctly and it may result in