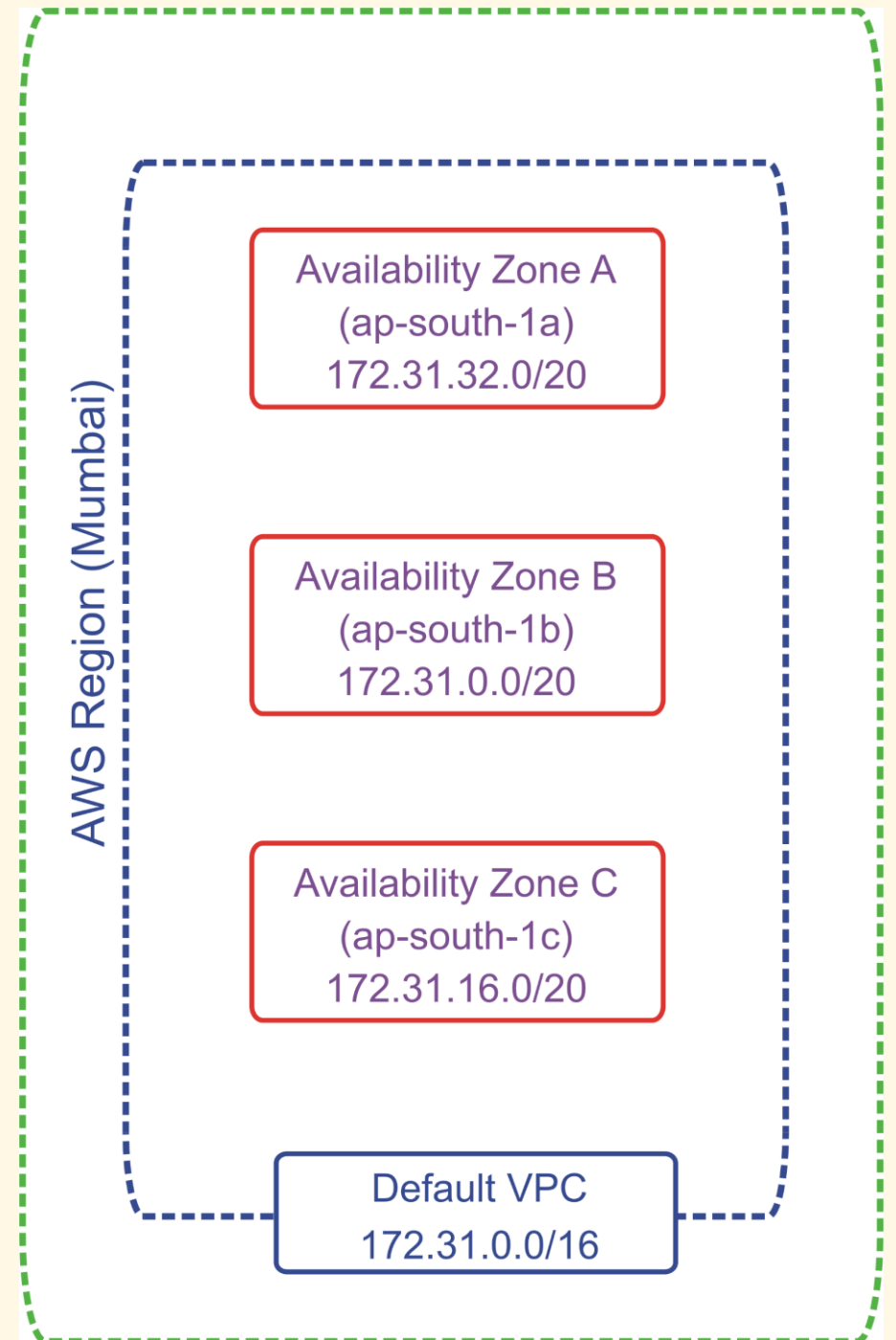


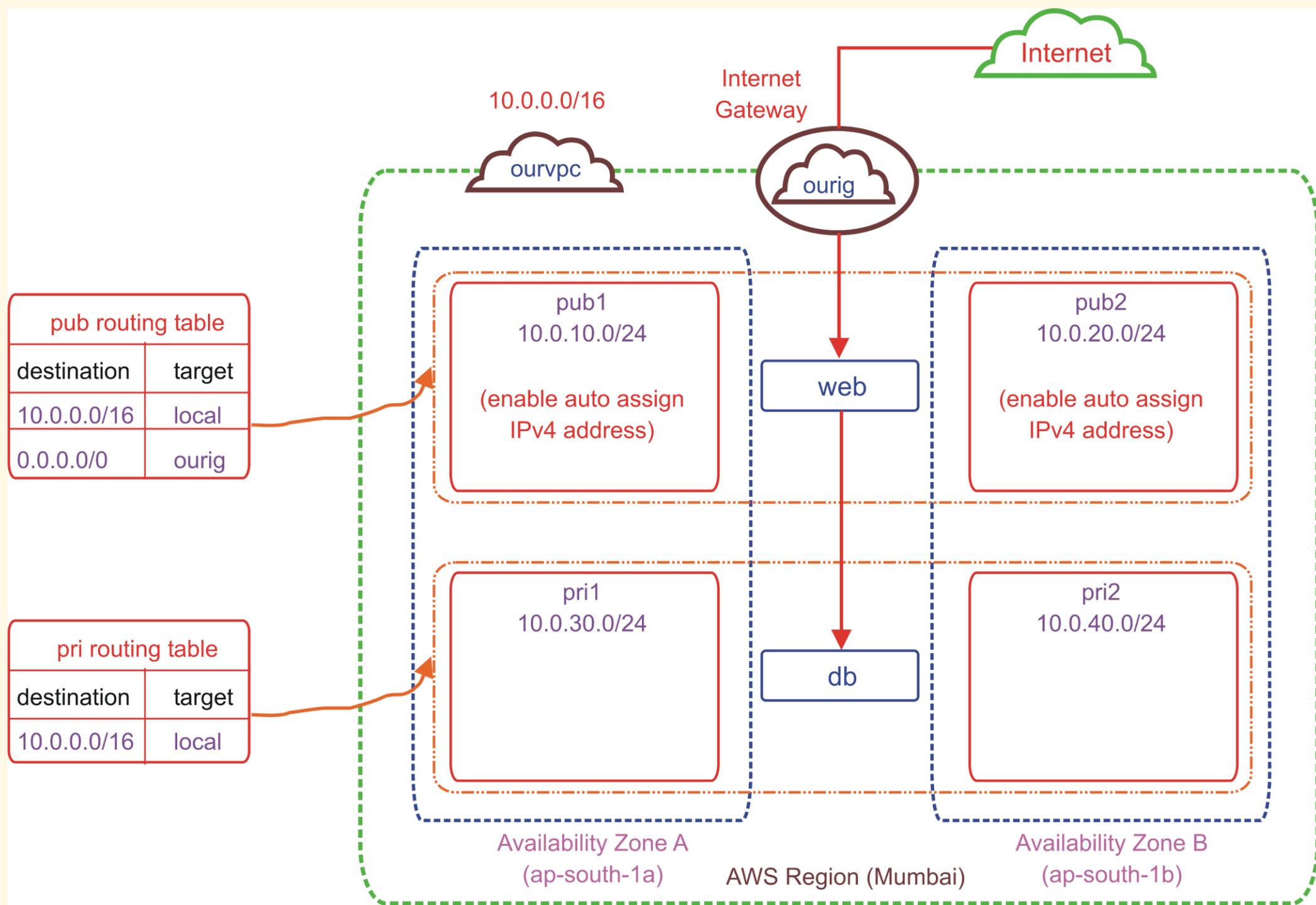
Custom AWS VPC

(2 Public, 2 Private Subnets, Deploy Simple PHP/MySQL Application)

Default VPC



VPC



Custom VPC Step by Step

- VPC Lab Setup Details
- Create Custom VPC (ourvpc)
- Create Public Subnets (pub1, pub2) and Private Subnets (pri1, pri2)
- Create Internet Gateway (ourig) and Attach to VPC
- Create and Configure Routing Table (pub routing table)
- Create Webserver Security Group and Add Rules (web)
- Launch Internet Facing Linux Apache Web Server Instance (webserver)
- Create Database Security Group and Add Rules (db)
- Create Subnet Group For Database Using Private Subnets (db-subnet)
- Launch Backend RDS Instance (ourdb)
- Connect To Webserver Instance Using Putty
- Deploy Simple PHP/MySQL Application in Custom VPC
- Delete Custom VPC and Resources

Launch Web Server in Public Subnet

```
#!/bin/bash -ex  
yum -y install nano httpd php mysql php-mysql  
systemctl start httpd  
systemctl enable httpd
```

Create index.php

```
<?php
$conn = mysqli_connect('ourdb.cn0kivmudvzk.ap-south-1.rds.amazonaws.com','aanya','Asdf#1234','employee');

$q = "select * from salary limit 4";

$result = mysqli_query($conn,$q);

while ($row = mysqli_fetch_array($result))
{
    echo $row['eno']." ";
    echo $row['dept']." ";
    echo $row['salary']." ";
    echo "<br />";
}

?>
```

Connect To Database From Webserver

```
mysql --user aanya --password --host ourdb.cn0kivmudvzk.ap-south-1.rds.amazonaws.com
```

Create Table and Insert Data

```
use employee;
```

```
create table employee.salary (eno char(3) primary key,dept varchar(15),salary int(6));
```

```
insert into employee.salary values ("101","marketing",30000);
```

```
insert into employee.salary values ("102","sales",25000);
```

```
insert into employee.salary values ("103","production",12000);
```

```
insert into employee.salary values ("104","cs",20000);
```

```
insert into employee.salary values ("105","cs",55000);
```

```
insert into employee.salary values ("106","it",90000);
```

```
select * from employee.salary;
```