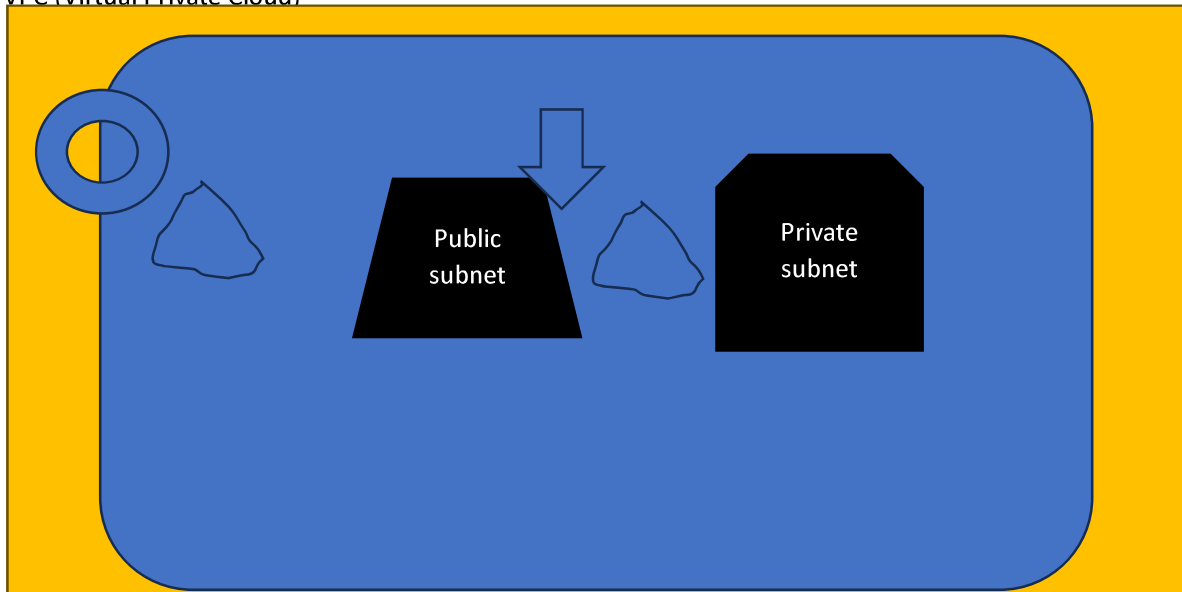


VPC (Virtual Private Cloud)



VPC: Virtual private cloud used for create private cloud inside a aws account.

Types of VPC are 4

Management : create bastion host , Jenkins, nginx

Demo VPC : Demo related applications

Dev VPC: Dev related applications

Test VPC : test related applications

Internet gateway: used for getting traffic inside VPC, it will allow traffic only to public subnet

Nat Gateway : used for getting internet inside private subnet

Subnet: create the blocks inside VPC

Types of subnets: public and private

Public subnet: used deploying front end applications

Private subnet: used for deploying backend data base related applications

Route table: used for getting inbound/outbound traffic inside subnets both

NACL: subnet level traffic allocation with rules . rule 1 is having more priority then rule 10

Security group : traffic allocation for a service like EC2 (elastic cloud compute), RDS(relation DB) etc.,

Workflows :

VPC -> internet gateway -> subnet->route table[associate with internet and subnet] -> Nat gateway -> private subnet -> route table [associate with Nat gateway] .

Implementation:

1. Create a vpc
2. Create a internet gateway and attach to vpc
3. Create a subnet inside the vpc
4. Create a route table and associate the subnet
5. Edit route and add the internet gateway to the subnet

EC-2

- go to ec-2 dashboard
- click on launch instances
- give the name to the ec2 instance
- select the Ami
- select the configuration
- edit the network configuration and select the vpc and subnet
- and availability zone edit the security group where we can allow the traffic inside the ec-2
- publicly accessible enable
- create the key pair if we have, we can use that as well
- add storage if we need more
- launch instance

connecting to instance:

1. open putty copy the ip from ec2
2. paste the ip
3. port number 22
4. inside the auth go to credentials and add the ppk path there
5. save and connect the machine and we can do our work.