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Elastic IP

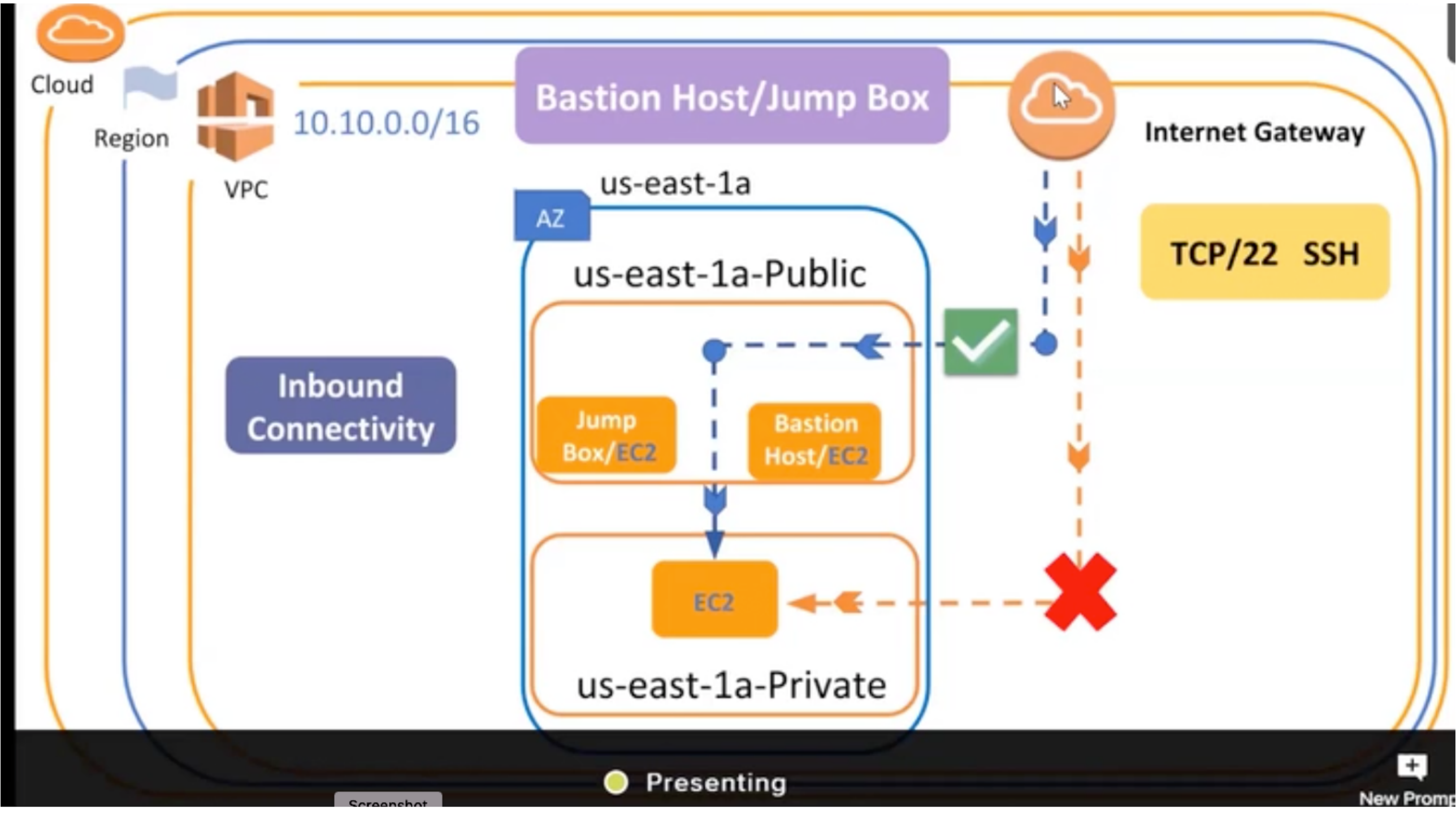
- An Elastic IP address is a Static IPv4 Address designed for dynamic cloud computing.
- Legal requirement for some applications or license policy to may render you to use static IP. In addition, some AWS components/services such as NAT Gateway and Route 53 need Elastic IP.
- Elastic IP is free of charge as long as they are being used. However, you will be charged $0.01/hr for each EIP if you reserve and do not use.

NAT Gateway/NAT Instance & Bastion Host/Jump Box

- While the Public IP is allocated to the instance in Public subnet, there is no such public IP for the instance in Private Subnets for the security precautions.
- So, the instances in Public Subnet can connect the internet via public IP. As for instances in Private Subnet, neither they can get traffic from the internet nor connect to the internet directly.
- But, on the other hand, we need to keep the instances in Private Subnet accessible for updates, monitoring, pulling package etc.

https://docs.aws.amazon.com/vpc/latest/userguide/vpc-nat-comparison.html

Screenshot



Presenting
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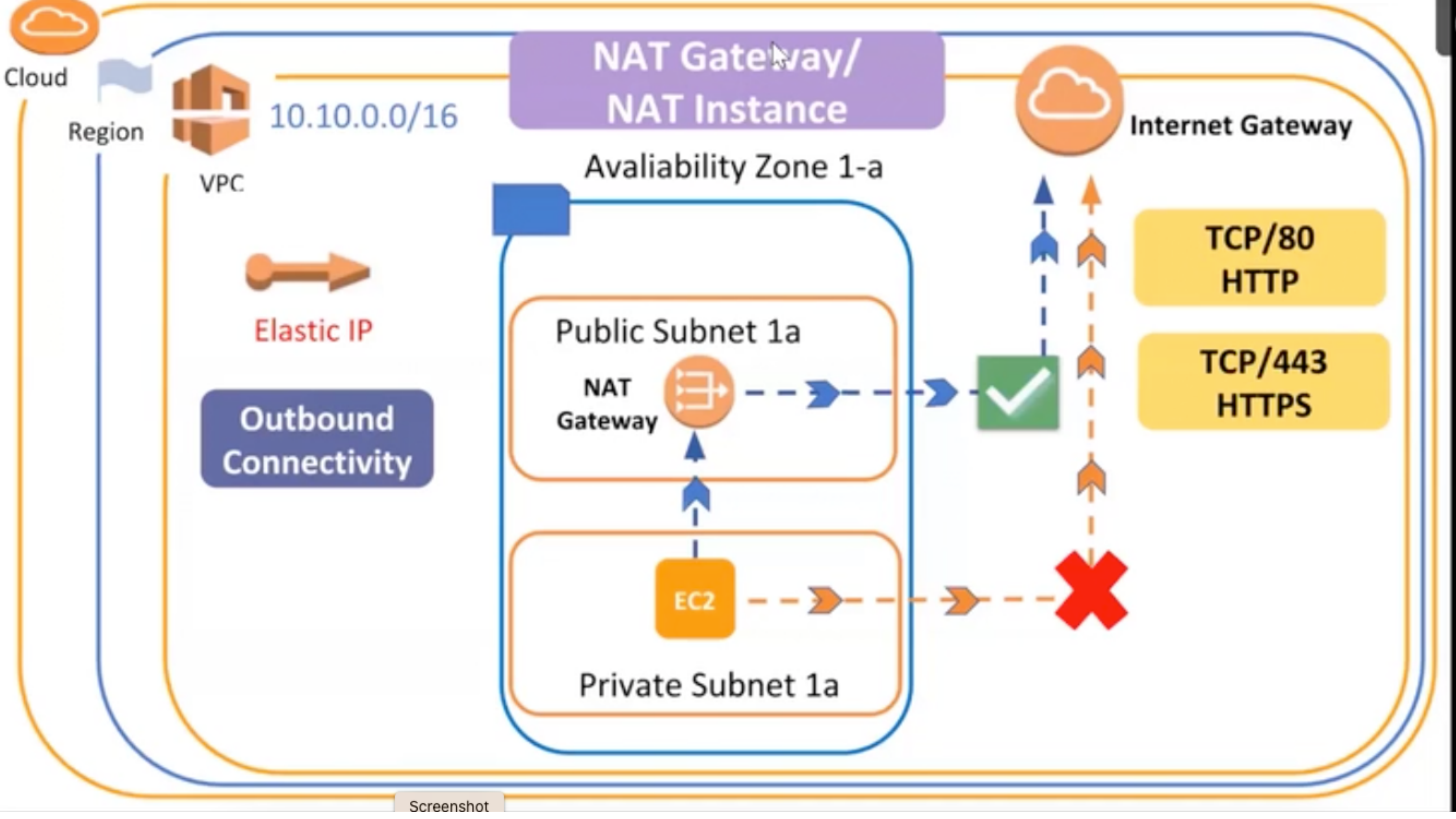
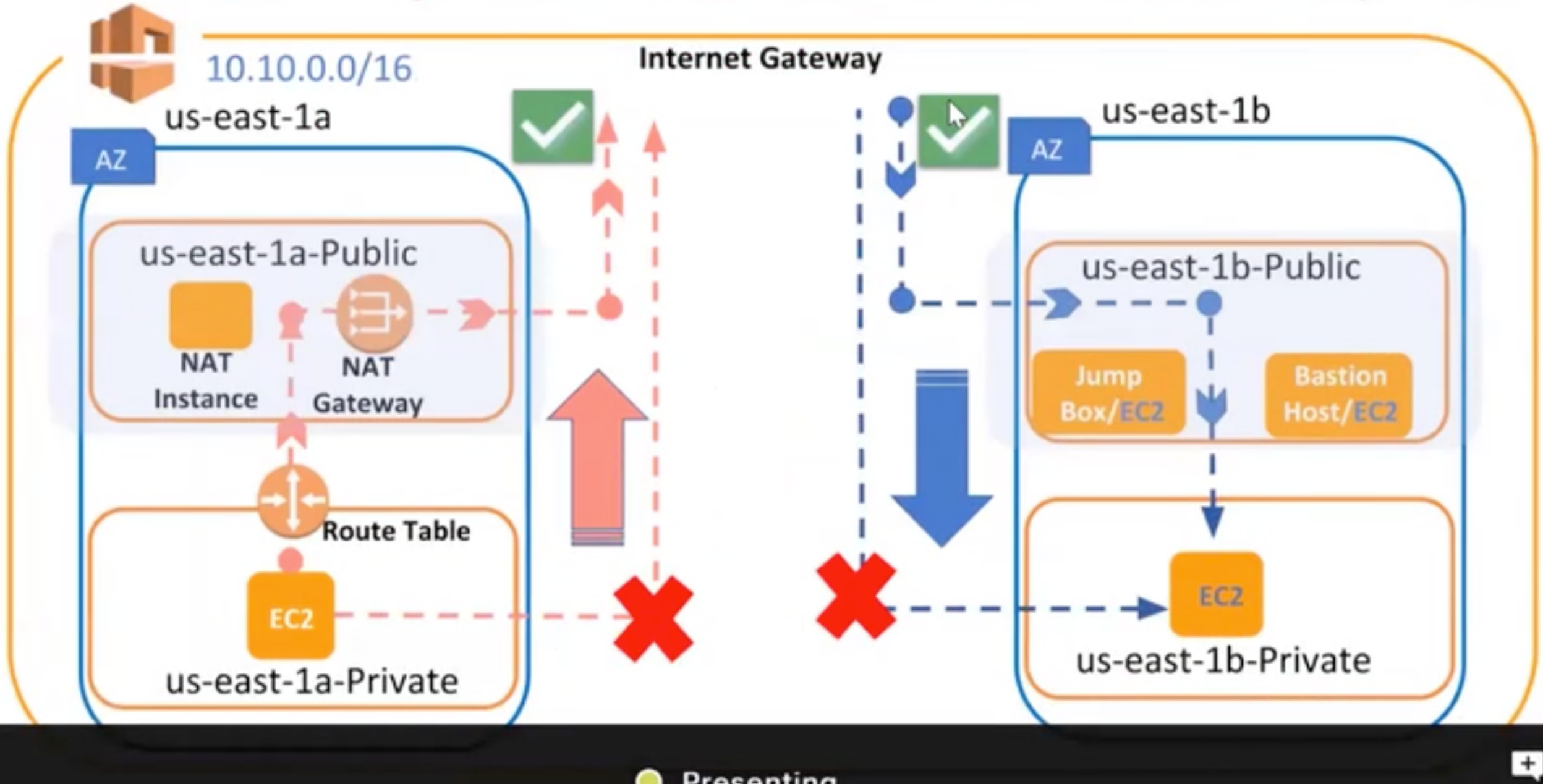

Cloud
Region
VPC
10.10.0.0/16
NAT Gateway/
NAT Instance
Internet Gateway
Avaliability Zone 1-a
Elastic IP
Outbound
Connectivity
Public Subnet 1a
NAT
Gateway
EC2
Private Subnet 1a
TCP/80
HTTP
TCP/443
HTTPS

NAT Gateway/NAT Instance & Bastion Host/Jump Box



Presenting

New Pron