ELB
Elastic Load Balancing

Application Deployment Without ELB

Internet

EC2
Webserver
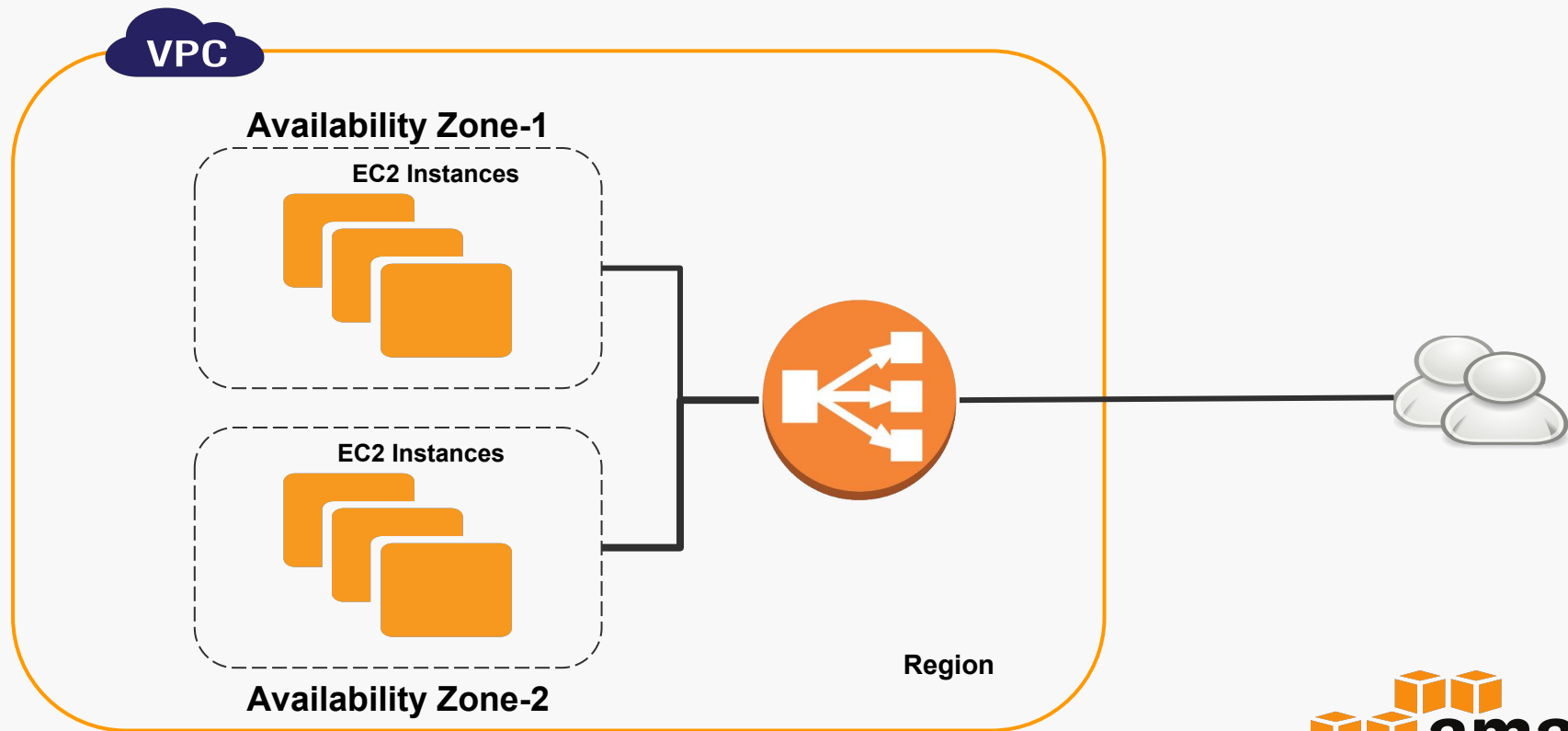
Only one server
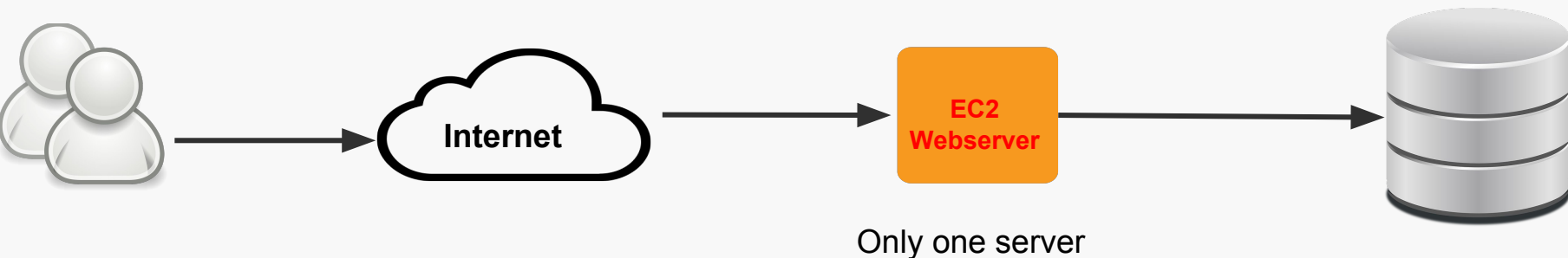
- Problems With This Model
  - Not Highly Available
  - Performance limitations

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Application Deployment With ELB

VPC

Availability Zone-1

EC2 Instances

EC2 Instances

Availability Zone-2

Region

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ELB Characteristics

- ELB is region specific.
- ELB can load balance instances within same region, it can't load balance instances across multiple region.
- Route53 can be used for load balancing instances across multiple regions.
- ELB supports two types of load balancers: Application load balancers & Classic load balancers
- Elastic Load Balancing detects unhealthy instances and routes traffic only to healthy instances
- Supports both internal & external load balancing

ELB Characteristics continued..

- ELB is highly available, scalable & fully managed aws service
- ELB supports SSL termination.
- ELB can be integrated with "Auto Scaling"
- ELB supports following protocols
    - http
    - https
    - tcp
    - secured tcp
- ELB can be secured using security groups

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Elastic Load Balancing Demo