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## EC2 Instances Dashboard showing the running Riak Instances with their Public IP

The screenshot shows the AWS EC2 Management Console. The left sidebar contains navigation options like INSTANCES, IMAGES, ELASTIC BLOCK STORE, NETWORK & SECURITY, and ELASTIC LOAD BALANCING. The main content area displays a list of instances. The 'Jump Box' instance is selected, and its details are shown on the right. The instance is running, with a public IP of 18.207.174.254.

Name	Instance ID	Instance Type	Availability Zone	Instance State	Status Checks	Alarm Status	Public DNS (IPv4)
Jump Box	i-07669bdcfd59e3e	t2.micro	us-west-2a	running	2/2 checks ...	None	ec2-18-237-174-254.us-west-2.compute.amazonaws.com
riak-node3	i-090ba8115013a3d17	t2.micro	us-west-2a	running	2/2 checks ...	None	
riak-node2	i-0bc5d1f0ba59dc1d	t2.micro	us-west-2a	running	2/2 checks ...	None	
riak-node1	i-0995037b448c9cb4	t2.micro	us-west-2a	running	2/2 checks ...	None	

Instance: i-07669bdcfd59e3e (Jump Box) Public DNS: ec2-18-237-174-254.us-west-2.compute.amazonaws.com

Description	Status Checks	Monitoring	Tags
Instance ID: i-07669bdcfd59e3e Instance state: running Instance type: t2.micro Elastic IPs: - Availability zone: us-west-2a Security groups: cmpe281-dmz, view inbound rules, view outbound rules Scheduled events: No scheduled events AMI ID: amazon-ami-hvm-2018.03.0.20181129-x86_64-gp2 (ami-01a24b29428c15a2) Platform: - IAM role: - Key pair name: cmpe281uswest2 Owner: 021669194994	Public DNS (IPv4): ec2-18-237-174-254.us-west-2.compute.amazonaws.com IPv4 Public IP: 18.207.174.254 IPv6 IPs: - Private DNS: ip-10-0-0-17.us-west-2.compute.internal Private IPs: 10.0.0.17 Secondary private IPs: - VPC ID: vpc-093abca85fc477fd Subnet ID: subnet-5dc079a24ac38c38	Network interfaces: eth0 SourceDestCheck: True T2/T3 Unlimited: Disabled EBX-optimized: False	

## ELB Configs with Healthy Running Instances

The screenshot shows the AWS ELB Management Console. The left sidebar contains navigation options like ELASTIC BLOCK STORE, NETWORK & SECURITY, and ELASTIC LOAD BALANCING. The main content area displays the configuration of an ELB instance named 'aws-riak-elb-app'. The instance is active, with a public IP of 18.207.174.254. The 'Instances' tab is selected, showing a list of instances. The 'Health check' tab is also visible, showing the health status of the instances.

Name	DNS name	State	VPC ID	Availability Zones	Type
aws-riak-elb-app	aws-riak-elb-app-135475294...	active	vpc-093abca85fc477fd	us-west-2a	classic
aws-riak-elb-net	aws-riak-elb-net-67c1b1e84...	active	vpc-093abca85fc477fd	us-west-2a	network

Load balancer: aws-riak-elb-app

Connection Draining: Enabled, 300 seconds (Edit)

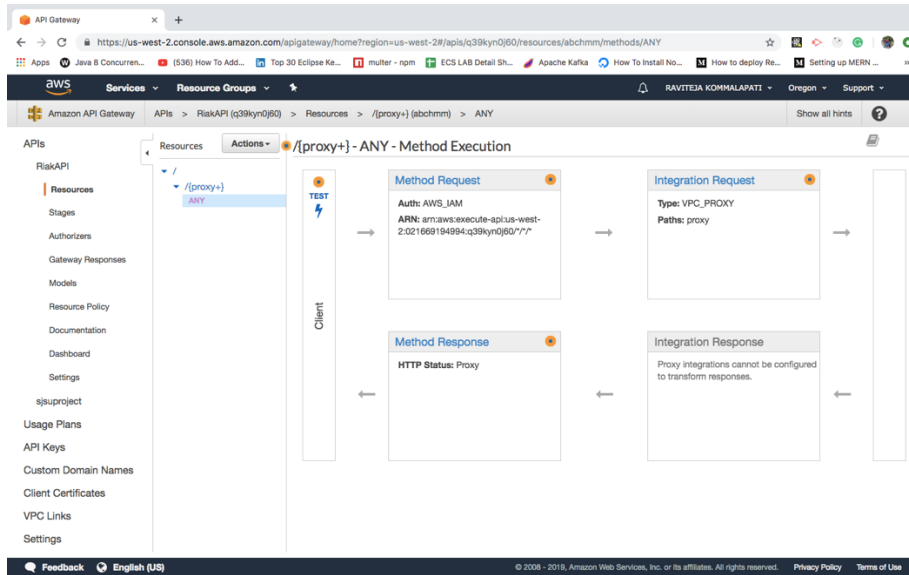
Edit Instances

Instance ID	Name	Availability Zone	Status	Actions
i-0bc5d1f0ba59dc1d	riak-node2	us-west-2a	InService	Remove from Load Balancer
i-090ba8115013a3d17	riak-node3	us-west-2a	InService	Remove from Load Balancer
i-0995037b448c9cb4	riak-node1	us-west-2a	InService	Remove from Load Balancer

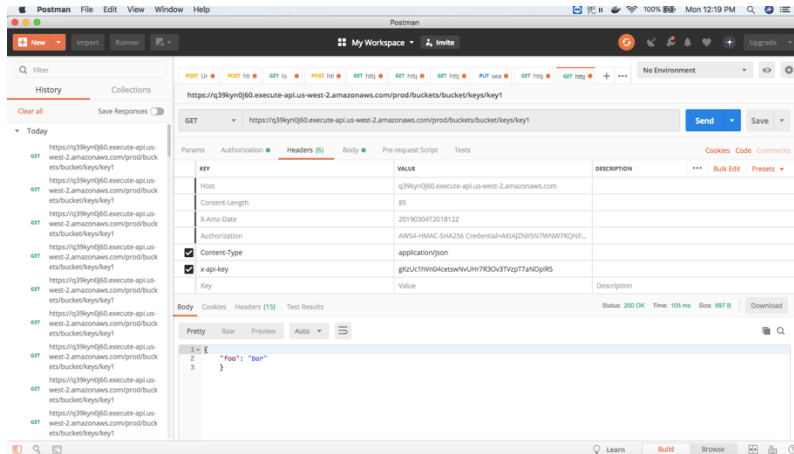
Edit Availability Zones

Availability Zone	Subnet ID	Subnet CIDR	Instance Count	Healthy?	Actions
us-west-2a	subnet-08f1cd48b4b862d2	10.0.1.0/24	3	Yes	-

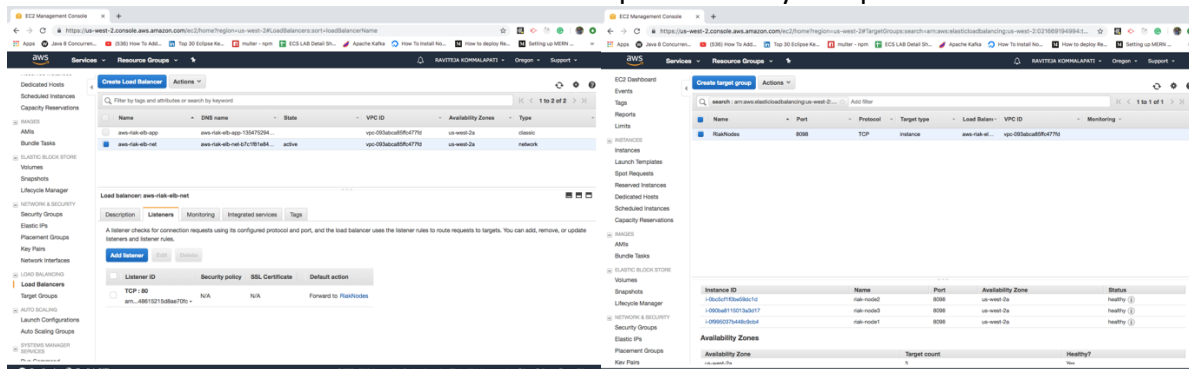
## API Gateway Configs

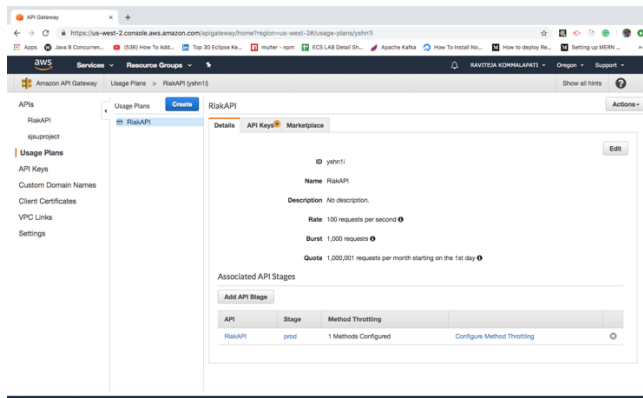


## Output of Testing API Gateway using Curl or Postman with Response Output

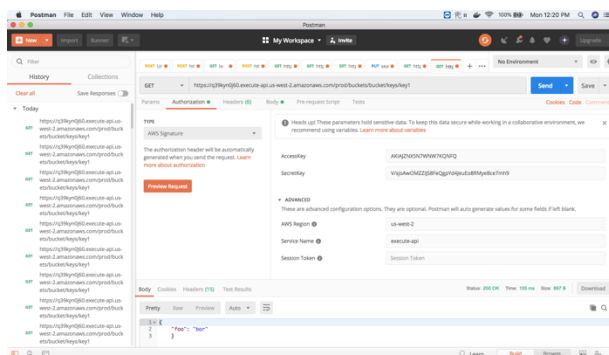


## Extra ScreenShots: Network load Balancer Setup and API key Setup.

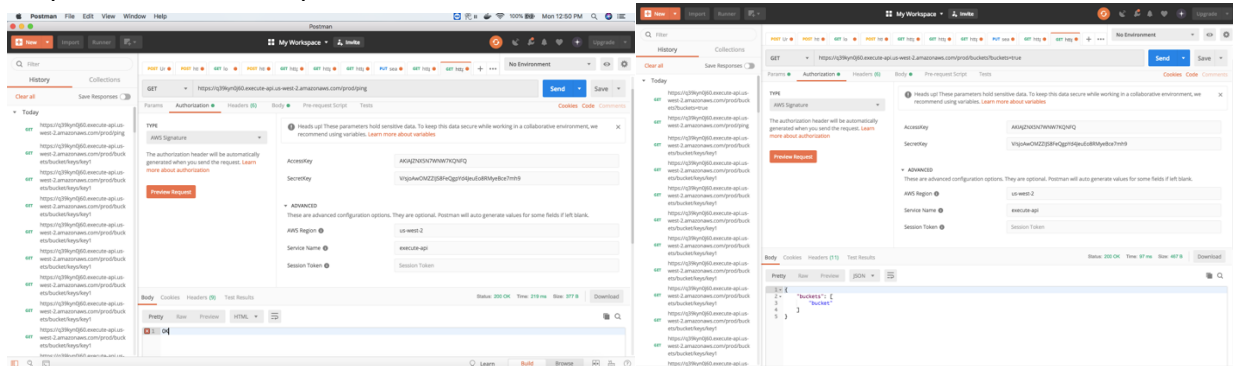




## Post Man Setup for Authorization



## Request execution outputs



## Reference:

[https://docs.aws.amazon.com/IAM/latest/UserGuide/id\\_credentials\\_access-keys.html](https://docs.aws.amazon.com/IAM/latest/UserGuide/id_credentials_access-keys.html)

<https://aws.amazon.com/premiumsupport/knowledge-center/iam-authentication-api-gateway/>