

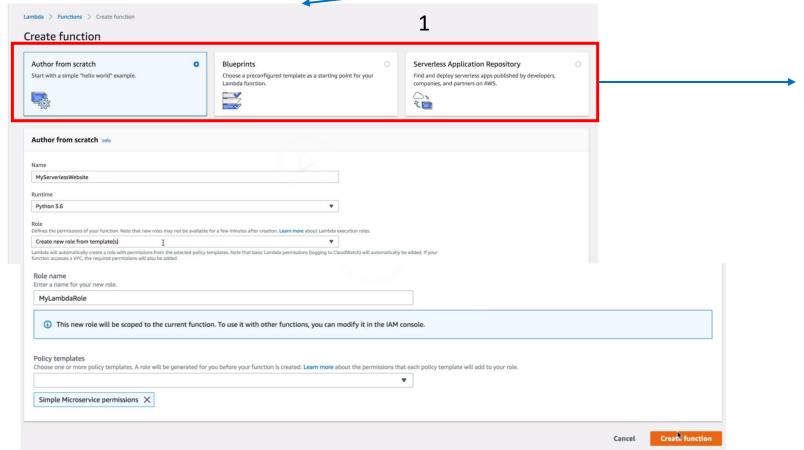
When we register domain name using static website in the s3, we need to look for 2 things – domain name is available and bucket name is available. Domain name and bucket name should be the same.

Create s3 static website bucket with index.html and error.html

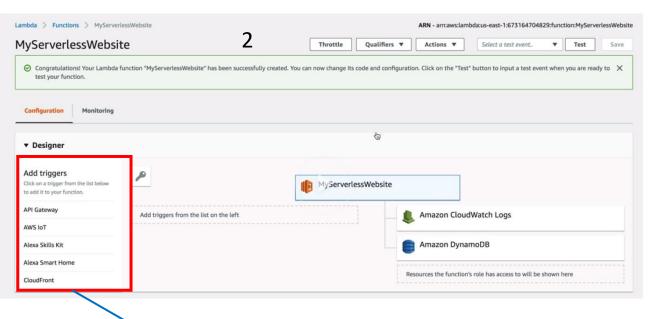
Services  $\rightarrow$  networking and content delivery  $\rightarrow$  route 53  $\rightarrow$  register domain name  $\rightarrow$  make sure the domain is available.

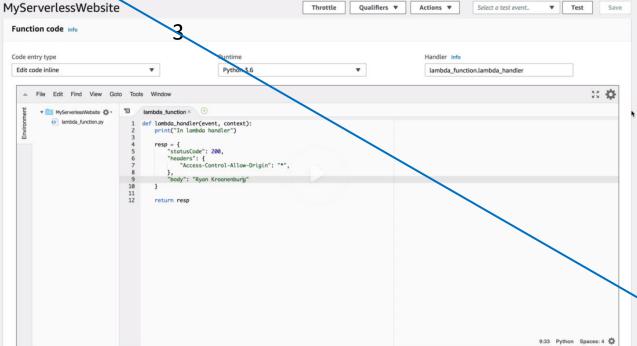
S3 bucket name and domain name should be same.

Services → compute → lambda → create lambda function



3 ways of creating lambda function

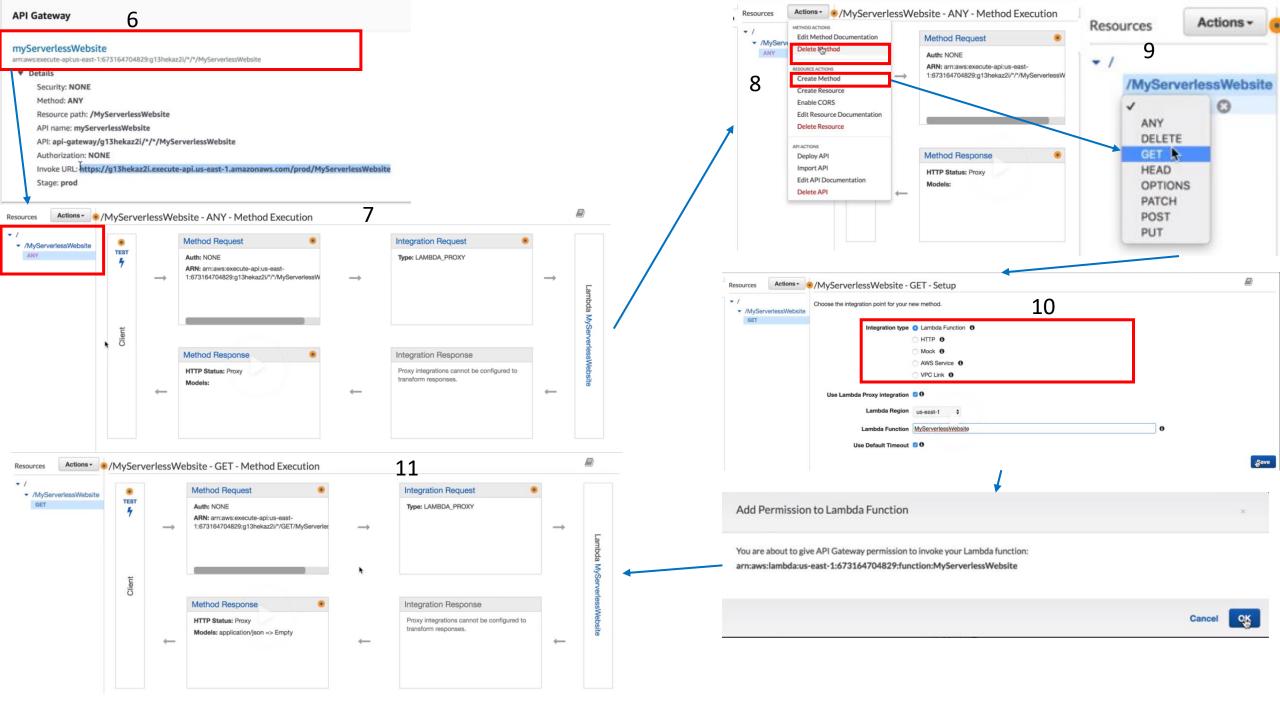


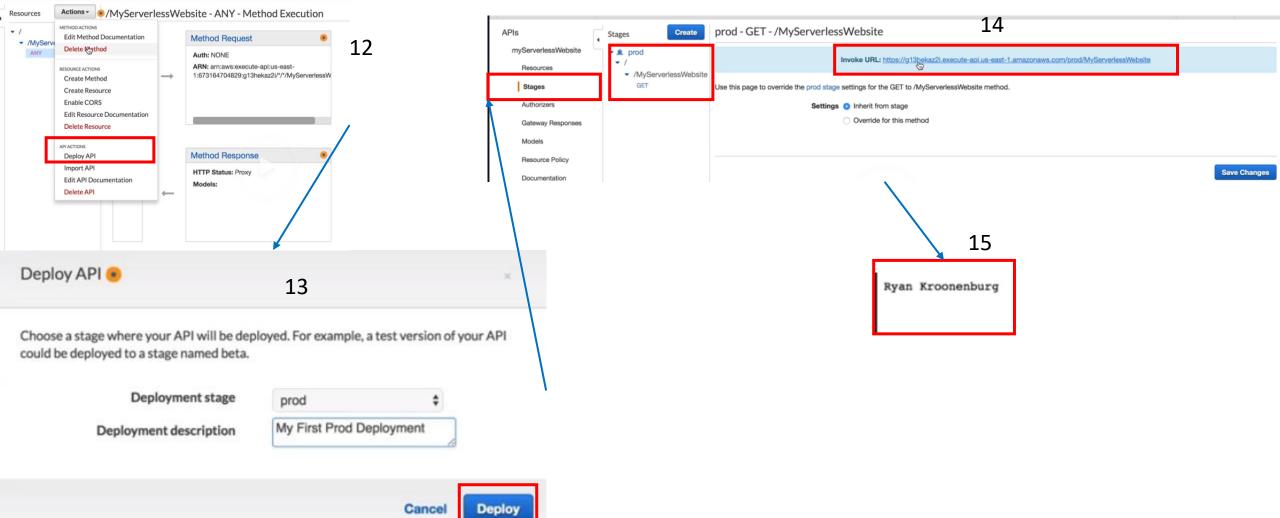


ambda > Functions > MyServerlessWebsite			ARN - arn:aws:lambda:us-east-1:673164704829:function:MyServerlessWebs			
lyServerlessWebsi	te 4	Throttle Qual	alifiers ▼ Actions ▼ Select a test event ▼ Test Sa			
<ul> <li>Congratulations! Your Lambda test your function.</li> </ul>	function "MyServerlessWebsite" has been successfull	y created. You can now change its code and	nd configuration. Click on the "Test" button to input a test event when you are ready to			
Configuration Monitoring						
▼ Designer						
Add triggers  Click on a trigger from the list below to add it to your function.	P	MyServerlessWeb ⊘ Saved	bsite			
API Gateway	API Gateway	×	Amazon CloudWatch Logs			
AWS IoT	Configuration required		*			
Alexa Skills Kit	Add triggers from the list on the left		Amazon DynamoDB			
Alexa Smart Home						

Configure triggers 5			
We'll set up an API Gateway endpoint with a proxy integration type (learn more about the input or subpath routes, visit the Amazon API Gateway console.	and output format)	Any me	ethod (GET, POST, etc.) will trigger your integration. To set up more advanced method mappings
API Pick an existing API, or create a new one.			
Create a new API		•	
API name Enter a name to uniquely identify your API.			
myServerlessWebsite			
Deployment stage The name of your API's deployment stage.			
prod			
Security Configure the security mechanism for your API endpoint.			<b>h</b>
Open		•	
Warning: Your API endpoint will be publicly available and can be invoked by all users.			
Lambda will add the necessary permissions for Amazon API Gateway to invoke your Lambda fur	nction from this trigg	er. Lear	n more about the Lambda permissions model.
			Cancel Add

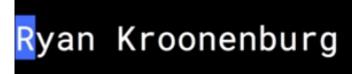
Exam question on triggers – which are not aws triggers?





## Accessing API gateway using ec2 cli

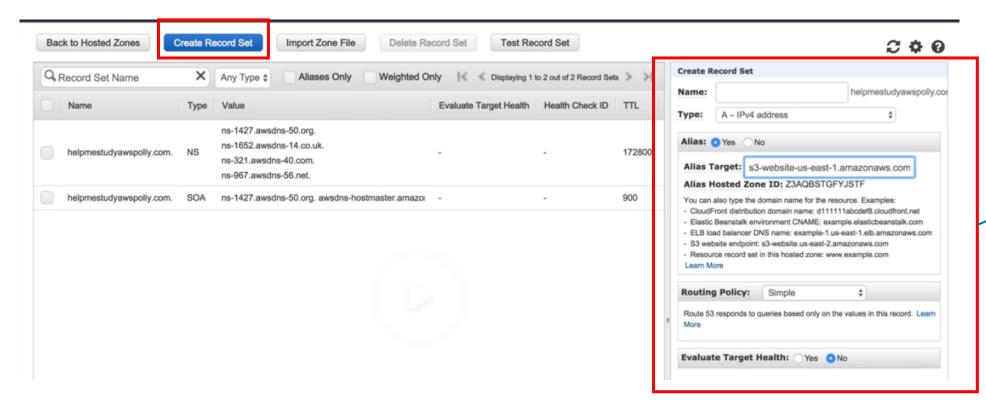
```
[root@ip-172-31-25-145 ec2-user]# curl "https://g13hekaz2i.execute-api.u
s-east-1.amazonaws.com/prod/MyServerlessWebsite" > myname.txt
            % Received % Xferd Average Speed
 % Total
                                              Time
                                                      Time
                                                              Time
Current
                               Dload Upload
                                            Total
                                                      Spent
                                                              Left
Speed
 0
                      0
                            0
                                         0 --:--:-- --:--:--
100
      16
          100
                 16
                      0
                                         0 --:--:-- --:--:--
    82
[root@ip-172-31-25-145 ec2-user]# nano myname.txt
```



```
hellocloudgurus.py
                                            <head>
                                                <script>
                                                    function myFunction() {
                                                        var xhttp = new XMLHttpRequest();
                                                        xhttp.onreadystatechange = function() {
                                                            if (this.readyState == 4 && this.status == 200) {
                                                            document.getElementById("my-demo").innerHTML = this.responseText;
                                 10
11
12
                                                        xhttp.open("GET", "https://gl3hekaz2i.execute-api.us-east-1.amazonaws.com/prod/MyServerlessWebsite", true);
xhttp.send();
                                 13
                                  15
                                  16 -
                                                </script>
                                 18 + <body>
                                  19 +
                                            <div align="center">
                                  22
                                                <br />
                                  23
                                                <h1>Hello <span id="my-demo">Cloud Gurus!</span></h1>
                                                <button onclick="myFunction()">Click me</button>
                                  26
                                  27
                                               <img src="https://s3.amazonaws.com/bucketforserverlesswebsitelab-donotdelete/falconheavy.jpg">
                                  28 -
                                  29
                                  30 -
                                  31 - </html>
```

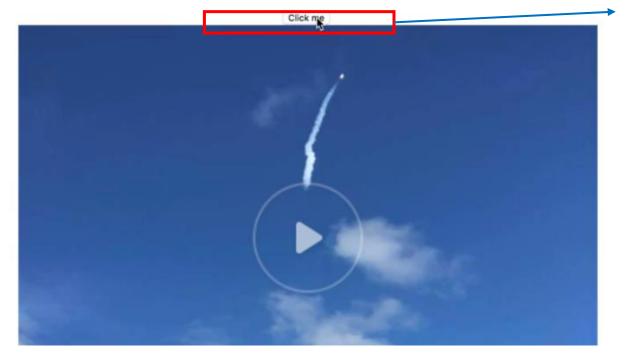
Add the api gateway url. Upload the index.html and error.html to the s3 bucket.

## Services → networking and content delivery → route 53 → hosted zones → selected the domain name



We should see the s3 bucket name. else, it means our s3 bucket name and domain name aren't same.

## **Hello Cloud Gurus!**



Click me hits the api gateway and
 this triggers the lambda function and returns the response back.

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