# Spring Security-Allow Only IP Address of Zuul API Gateway

In my previous tutorial, I have shared with you how to start up [Zuul API Gateway](http://appsdeveloperblog.com/zuul-api-gateway-tutorial/" \t "_blank) and how to make it route HTTP Requests to Microservices registered with Eureka Discovery Service. When using Zuul API Gateway and Eureka, we want all HTTP Requests to be sent to a Zuul API Gateway rather than directly to a selected Spring Boot Microservice. Zuul API Gateway will accept all HTTP Requests, will authenticate the user and will redirect HTTP Request to a specific Spring Boot Microservice registered via Eureka.

To prevent HTTP Requests coming from other sources than IP address of Zuul API Gateway, we can configure Spring Security in our Spring Boot Microservice and allow only a single IP address or a range of IP addresses to communicate with our Microservice. Below is how to do it.

**Add Spring Security to Spring Boot Web Service**

**pom.xml dependency**

Add the following pom.xml dependency.

1. <dependency>
2. <groupId>org.springframework.boot</groupId>
3. <artifactId>spring-boot-starter-security</artifactId>
4. </dependency>

Once you add the above Spring Security dependency to pom.xml file of your Spring Boot project, Spring Security will be enabled for your project and user will need to be authenticated to be able to use it.

**Grant Access From a Specific IP Address Only**

Create a new configuration Java class, enable Web Security using the **@Configuration** and **@EnableWebSecurity**annotations. Then use the **hasIpAddress**(“192.168.2.81”) to allow access to your Web Service from specified IP address only.

1. package com.appsdeveloperblog.photoapp.api.users.security;
2. import org.springframework.context.annotation.Configuration;
3. import org.springframework.security.config.annotation.web.builders.HttpSecurity;
4. import org.springframework.security.config.annotation.web.configuration.EnableWebSecurity;
5. import org.springframework.security.config.annotation.web.configuration.WebSecurityConfigurerAdapter;
6. @Configuration
7. @EnableWebSecurity
8. public class WebSecurity extends WebSecurityConfigurerAdapter {
9. @Override
10. protected void configure(HttpSecurity http) throws Exception {
11. http.authorizeRequests()
12. .antMatchers("/\*\*").hasIpAddress("192.168.2.81");
13. }
14. }

**Note:**The IP address provided in **hasIpAddress()**should be an IP address if your Zuul API Gateway.