**Spring Boot Docker Kubernetes – Configuration Management In Microservices**

**Step -1 – Introduction to Configuration Management inside microservices  
  
Step -2 – How Configuration work in Spring Boot  
  
Step -3 – Reading configuration using @Value annotation**accounts\src\main\resources\application.yml…

build:

version: "1.0"

package com.eazybytes.accounts.controller;

import lombok.AllArgsConstructor;

…

@AllArgsConstructor

@Validated

public class AccountsController {

private IAccountService iAccountsService;

@Value("${build.version}")

private String buildVersion;

public AccountsController(IAccountService accountService) {

this.iAccountsService = accountService;

}

…

@Operation(

summary = "Get Build information",

description = "Get Build information that is deployed into accounts microservice"

)

@ApiResponses({

@ApiResponse(

responseCode = "200",

description = "HTTP Status OK"

),

@ApiResponse(

responseCode = "500",

description = "HTTP Status Internal Server Error",

content = @Content(

schema = @Schema(implementation = ErrorResponseDto.class)

)

)

}

)

@GetMapping("/build-info")

public ResponseEntity<String> getBuildInfo() {

return ResponseEntity

.status(HttpStatus.OK)

.body(buildVersion);

}

}

GET http://localhost:8080/api/build-info

**Step -4 – Reading configuration using Environment interface**

**Step -5 – Reading configuration using @ConfigurationProperties  
  
Step -6 – Introduction to Spring Boot Profiles**

**Step -7 – Demo Spring Boot Profiles inside account microservice**

**Step -8 – Externalizing configurations using command-line, JVM and environment options**

**Step -9 – Activating the profile using command-line, JVM and environment options**

**Step -10 – Add configurations inside Loans and Cards microservices  
  
Step -11 – Drawbacks of externalized configurations using SpringBoot alone**

**Step -12 – Introduction to Spring Cloud Config**

**Step -13 – Building Config Server using Spring Cloud Config**

**Step -14 – Reading configurations from the ClassPath location of config server**

**Step -15 – Updating Accounts Microservice to read properties from Config Server**

**Step -16 – Updating Loans and Cards Microservice to read properties from Config Server**

**Step -17 – Reading configurations from a file system location**

**Step -18 – Reading configurations from GitHub repository**

**Step -19 – Encryption and Decryption of properties inside Config Server**

**Step -20 – Refresh configuration at runtime using refresh actuator path**

**Step -21 – Refresh configurations at runtime using Spring Cloud Bus**

**Step -22 – Refresh config at runtime using Spring Cloud Bus & Spring Cloud monitor**

**Step -23 – Updating docker compose file to adapt Config Server changes – Part 1**

**Step -24 – Introduction to Liveness and Readiness**

**Step -25 – Updating docker compose file to adapt Config Server changes – Part 2**

**Step -26 – Optimizing Docker compose file**

**Step -27 – Generating Docker images and pushing them into Docker hub**

**Step -28 – Testing Config Server changes end to end using Docker Compose and default profile**

**Step -29 – Preparing Docker Compose files for QA and prod profiles**