

1. Which of the following best describes Service Discovery?

1 / 1 point

- ☐ Prevent an application from repeatedly trying to execute an operation that's likely to fail.
- ☐ Maximize the availability of a service across multiple servers.
- ☐ A service that controls the flow of scaled service instances.
- ☒ The client is responsible for determining network locations by querying a service registry.

✓ **Correct**

Correct; this is Client Discovery where a client utilizes a registry and creates a subset of services it can access via a load balancer.

2. Which type of Service in Netflix OSS is used to provide client side load balancing for services to delegate to other services?

1 / 1 point

- ☒ Ribbon
- ☐ Feign
- ☐ Zuul
- ☐ Eureka

✓ **Correct**

Correct this is client side load balancing.

3. What type of filters can a Zuul service provide? (Select all that apply)

1 / 1 point

- ☐ EXCEPTION
- ☒ ROUTING

✓ **Correct**

Correct; Filters handle routing the request to a destination. This is where an HTTP request is built and sent using Apache HttpClient or Netflix Ribbon.

- ☐ LOGGING
- ☒ PRE

✓ **Correct**

Correct; execute before routing to the desired service.

4. Which Netflix OSS project provides functionality for stopping cascade failures across services by implementing the circuit Breaker Pattern?

1 / 1 point

- ☒ Hystrix
- ☐ Feign
- ☐ Ribbon
- ☐ Zuul

✓ **Correct**

Correct; Hystrix provides functionality to implement the Circuit Breaker Pattern and provide fallback operations.

5. Which Netflix OSS project provides functionality for Routing services?

1 / 1 point

- ☒ Zuul
- ☐ Feign
- ☐ Ribbon
- ☐ Hystrix

✓ **Correct**

Correct; this is a Gateway or Edge service providing a front door to route requests via Ribbon on to other services through filters.

6. Which annotation will scan for Hystrix in your service project?

1 / 1 point

- ☐ @HystrixCommand
- ☐ @EnableEurekaServer
- ☒ @EnableCircuitBreaker
- ☐ @EnableDiscoveryClient

✓ **Correct**

Correct; this starts scanning for any circuit breaker implementation on the classpath, such as Hystrix.

7. Which annotation indicates the Rest template should be based on Client Side Load Balancing?

1 / 1 point

- ☐ @EnableEurekaServer
- ☐ @Bean
- ☐ @RibbonClient
- ☒ @LoadBalanced

✓ **Correct**

Correct; this allows the RestTemplate uses Ribbon and checks Eureka server for resolving the service name to host/port.

8. Which method in ZuulFilter do we override to execute the filter logic?

1 / 1 point

- ☐ shouldFilter
- ☐ filterType
- ☐ filterOrder
- ☒ run

✓ **Correct**

Correct; contains the functionality of the filter.

9. Which annotation is used to forward calls to other services via a client load balancer such as Ribbon?

1 / 1 point

- ☐ @EnableEurekaServer
- ☒ @EnableZuulProxy
- ☐ @RibbonClient
- ☐ @EnableDiscoveryClient

✓ **Correct**

True, this creates a proxy that forwards relevant calls to other services using Ribbon.

10. What in the services local registry is encapsulated away from your code when you call a service behind a Load balancer?

1 / 1 point

- ☒ The service IP Address.
- ☐ The protocol.
- ☐ The PathVariables of the desired endpoint.
- ☐ The service id or name.

✓ **Correct**

Correct; An Internet Protocol address is a numerical label such as 172.16.254.1 that is connected to a computer network that uses the Internet Protocol for communication and is static so we do not want to expose that as services are dynamically allocated IP addresses.