

레디스-세션-사용시-시큐리티-세션-이벤트-로깅-가이드

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 - 1. 해결방안

레디스 세션

- 캐모마일은 기본 세션(WAS : Tomcat)에 의존하고 있습니다.
- 레디스 세션을 사용하기 위해서는 다음 의존성이 필요합니다.

- spring-session-data-redis

language-markdown

| *spring-session* 프로젝트는 서버에 저장되는 세션의 한계를 넘어 다양한 세션 관리를 위한 프로젝트이다.

수정사항 1

- HttpSessionEventPublisher 가 정상적으로 등록되지 않는 문제

해결방안

- 다음 클래스 파일을 프로젝트에 추가합니다.
 - 클래스패스에서 덮어씁니다.

package net.lotte.chamomile.configure.common;

language-java

import java.util.ArrayList;
import java.util.List;

import org.slf4j.Logger;
import org.slf4j.LoggerFactory;
import org.springframework.beans.factory.annotation.Value;
import org.springframework.boot.autoconfigure.condition.ConditionalOnProperty;
import org.springframework.context.MessageSource;
import org.springframework.context.annotation.Bean;
import org.springframework.context.annotation.Configuration;
import org.springframework.core.LocalVariableTableParameterNameDiscoverer;
import org.springframework.security.web.session.HttpSessionEventPublisher;
import org.springframework.web.servlet.config.annotation.InterceptorRegistry;
import org.springframework.web.servlet.config.annotation.WebMvcConfigurer;

import net.lotte.chamomile.commons.aop.interceptor.ServiceLogInterceptor;
import net.lotte.chamomile.core.ApplicationContextProvider;
import net.lotte.chamomile.core.exception.web.DefaultExceptionHandler;
import net.lotte.chamomile.core.exception.web.ExceptionTransfer;
import net.lotte.chamomile.core.exception.web.service.ExceptionService;
import net.lotte.chamomile.core.servlet.mvc.method.annotation.ServiceRequestMappingHandlerMapping;
import net.lotte.chamomile.core.servlet.mvc.test.ServiceTestInterceptor;
import net.lotte.chamomile.core.web.servlet.handler.ServiceHandlerInterceptor;
import net.lotte.chamomile.integration.service.management.PropertyBasedServiceIdProvider;

@Configuration
public class WebConfigConfiguration implements WebMvcConfigurer {

 private final Logger logger = LoggerFactory.getLogger(getClass());
 @Value("\${chmm.exception.errorPage:/error}")
 private String errorPage;

 @Value("\${chmm.requestMappingSync.enabled:true}")
 private String requestMappingSyncEnabled;

 @Bean
 HttpSessionEventPublisher httpSessionEventPublisher() {
 return new HttpSessionEventPublisher();
 }

 @Bean
 @ConditionalOnProperty(name = "chmm.requestMappingSync.enabled", havingValue = "true", matchIfMissing = true)
 public ServiceRequestMappingHandlerMapping serviceRequestMappingHandlerMapping() {
 logger.info("register ServiceRequestMappingHandlerMapping");
 return new ServiceRequestMappingHandlerMapping();
 }
}

```

@Bean
public net.lotte.chamomile.commons.excel.MultiSheetExcelViewer multiSheetExcelViewer() {
    return new net.lotte.chamomile.commons.excel.MultiSheetExcelViewer();
}

@Bean
public net.lotte.chamomile.commons.spreadsheet.MultiSheetExcelViewer multisheetSpreadSheetView() {
    return new net.lotte.chamomile.commons.spreadsheet.MultiSheetExcelViewer();
}

@Bean
@ConditionalOnProperty(name = "chmm.requestMappingSync.enabled", havingValue = "true", matchIfMissing = true)
public ServiceHandlerInterceptor serviceHandlerInterceptor() {
    logger.info("register ServiceHandlerInterceptor");
    return new ServiceHandlerInterceptor();
}

@Override
public void addInterceptors(InterceptorRegistry registry) {
    registry.addInterceptor(new ServiceLogInterceptor())
        .addPathPatterns("/**")
        .excludePathPatterns("/resources/**");
    if (Boolean.parseBoolean(requestMappingSyncEnabled)) {
        registry.addInterceptor(new ServiceTestInterceptor())
            .addPathPatterns("/**")
            .excludePathPatterns("/resources/**");
        registry.addInterceptor(serviceHandlerInterceptor())
            .addPathPatterns("/**")
            .excludePathPatterns("/resources/**");
    } else {
        logger.info("requestMappingSyncEnabled is false({})", requestMappingSyncEnabled);
    }
}

@Bean
public DefaultExceptionHandler defaultExceptionHandler(MessageSource messageSource,
    ExceptionService exceptionService,
    ExceptionTransfer exceptionLogInfo,
    ExceptionTransfer exceptionInfoSave) {

    List<ExceptionTransfer> exceptionTransfers = new ArrayList<>();
    exceptionTransfers.add(exceptionLogInfo);
    exceptionTransfers.add(exceptionInfoSave);

    DefaultExceptionHandler defaultExceptionHandler = new DefaultExceptionHandler();
    defaultExceptionHandler.setMessageSource(messageSource);
    defaultExceptionHandler.setExceptionService(exceptionService);
    defaultExceptionHandler.setExceptionTransfers(exceptionTransfers);
    defaultExceptionHandler.setErrorPage(errorPage);
    return defaultExceptionHandler;
}

@Bean
public ApplicationContextProvider ApplicationContextProvider() {
    return new ApplicationContextProvider();
}

@Bean
public LocalVariableTableParameterNameDiscoverer localVariableTableParameterNameDiscoverer() {
    return new LocalVariableTableParameterNameDiscoverer();
}

@Bean(name = "propertyServiceIdProvider")
public PropertyBasedServiceIdProvider propertyServiceIdProvider() {
    return new PropertyBasedServiceIdProvider();
}
}

```

Info

주요 변경사항은 `HttpSessionEventPublisher` 가 `ServletListener` 로 우선 등록 되어 있는 설정을 우회

language-diff

```

- @Bean
- public ServletListenerRegistrationBean<HttpSessionEventPublisher> httpSessionEventPublisher() {
-     return new ServletListenerRegistrationBean<HttpSessionEventPublisher>(new HttpSessionEventPublisher());
+ public HttpSessionEventPublisher httpSessionEventPublisher() {
+     return new HttpSessionEventPublisher();
}

```

수정사항 2

- LogOut, TimeOut 이벤트를 spring security의 SessionDestroyedEvent 로 감지할 수 없는 문제
 - 이유: Redis가 세션에 대한 이벤트를 발행하므로 RequestContextHolder 에서 로그아웃 요청 정보를 인지하지 못함.

해결방안

- 다음 클래스 프로젝트에 추가

```
package net.lotte.chamomile.commons.aop.interceptor;

import java.util.List;

import javax.servlet.http.HttpSession;

import org.slf4j.Logger;
import org.slf4j.LoggerFactory;
import org.slf4j.MDC;
import org.springframework.context.ApplicationListener;
import org.springframework.security.core.context.SecurityContext;
import org.springframework.security.core.session.SessionDestroyedEvent;
import org.springframework.security.core.userdetails.UserDetails;
import org.springframework.stereotype.Component;
import org.springframework.web.context.request.RequestContextHolder;

@Component
public class SessionDestoryListener implements ApplicationListener<SessionDestroyedEvent> {

    final Logger logger = LoggerFactory.getLogger("UserLoginLogger");

    @Override
    public void onApplicationEvent(SessionDestroyedEvent event) {

        List<SecurityContext> contexts = event.getSecurityContexts();

        UserDetails ud;
        if (contexts.isEmpty() == false) {
            for (SecurityContext ctx : contexts) {

                ud = (UserDetails) ctx.getAuthentication().getPrincipal();

                if (MDC.get("userAction") == null) {
                    userAction();
                }

                String sessionId = ((HttpSession) event.getSource()).getId();
                String userName = ud.getUsername();
                MDC.put("userName", userName);
                MDC.put("sessionId", sessionId);
                logger.trace("");
            }
        }

        private void userAction() {
            if (RequestContextHolder.getRequestAttributes() == null) {
                MDC.put("userAction", "TimeOut");
            } else {
                MDC.put("userAction", "Logout");
            }
        }
    }
}
```

language-java

Info

캐모마일에서 수정된 사항은

```
if (MDC.get("userAction") == null) {
    userAction();
}
```

language-java

이미 userAction 정보가 있으면 해당 내용에 대해 판단하지 않도록 함.

Spring Security 의 세션 이벤트에서는 timeout, logout 을 구별할 수 없음.

- Redis Sesseion Event 를 받는 리스너 추가

```
package net.lotte.sample;

import org.slf4j.MDC;
import org.springframework.context.ApplicationListener;
import org.springframework.session.events.SessionDeletedEvent;
import org.springframework.session.events.SessionDestroyedEvent;
import org.springframework.session.events.SessionExpiredEvent;
import org.springframework.stereotype.Component;

@Component
public class RedisSessionDestroyListener implements ApplicationListener<SessionDestroyedEvent> {

    @Override
    public void onApplicationEvent(SessionDestroyedEvent event) {
        if (event instanceof SessionDeletedEvent) {
            MDC.put("userAction", "Logout");
        }
        if (event instanceof SessionExpiredEvent) {
            MDC.put("userAction", "TimeOut");
        }
    }
}
```

Info

spring session 의 세션 이벤트에서는 Delete, Expried 를 구별할 수 있으나, 사용자 이름 등 을 확인 할 수 없으므로 로그를 출력하는 부분은 SessionDestoryListener 에게 위임.