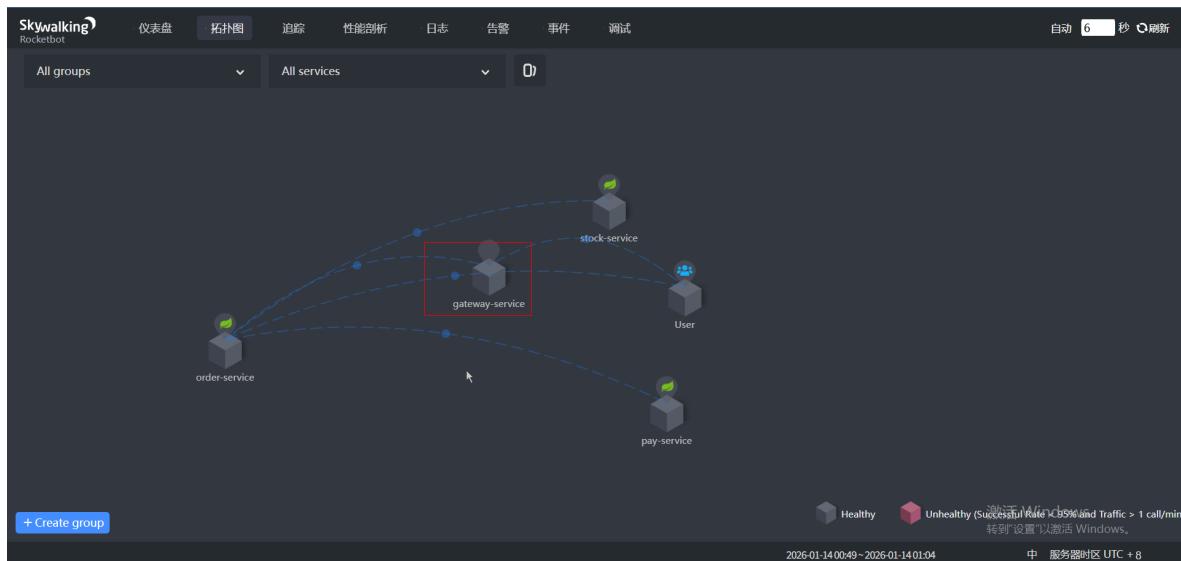


skywalking-study

1.网址

```
1 1.官网  
2 https://skywalking.apache.org/  
3 2.文档  
4 https://skywalking.apache.org/docs/main/latest/en/setup/backend/backend-setup/  
5  
6 3.github项目文档  
7 https://github.com/fanda521/skywalking-project  
8  
9 4.下载指定的版本的skywalking  
10 https://archive.apache.org/dist/skywalking/  
11  
12 agent 单独下载，新版本拆分开了  
13 https://archive.apache.org/dist/skywalking/java-agent/8.8.0/  
14  
15  
16 5.gateway 默认是不记录在里面的，需要把agent的optionPlugin 中的gateway的jar复制到  
agent中的plugins中才能看到记录，下面的是加了之后能看到的
```



2.注意点

1.项目jar

```
1 本身不用引入所谓的skywalking-spring-boot-starter,因为压根就没有这个，也不需要引入；除非  
2 定制化监控端点，需要引入下面这个jar  
3 <dependency>  
4   <groupId>org.apache.skywalking</groupId>  
5     <artifactId>apm-toolkit-trace</artifactId>  
6 </dependency>
```

2.启动需要探测的项目参数

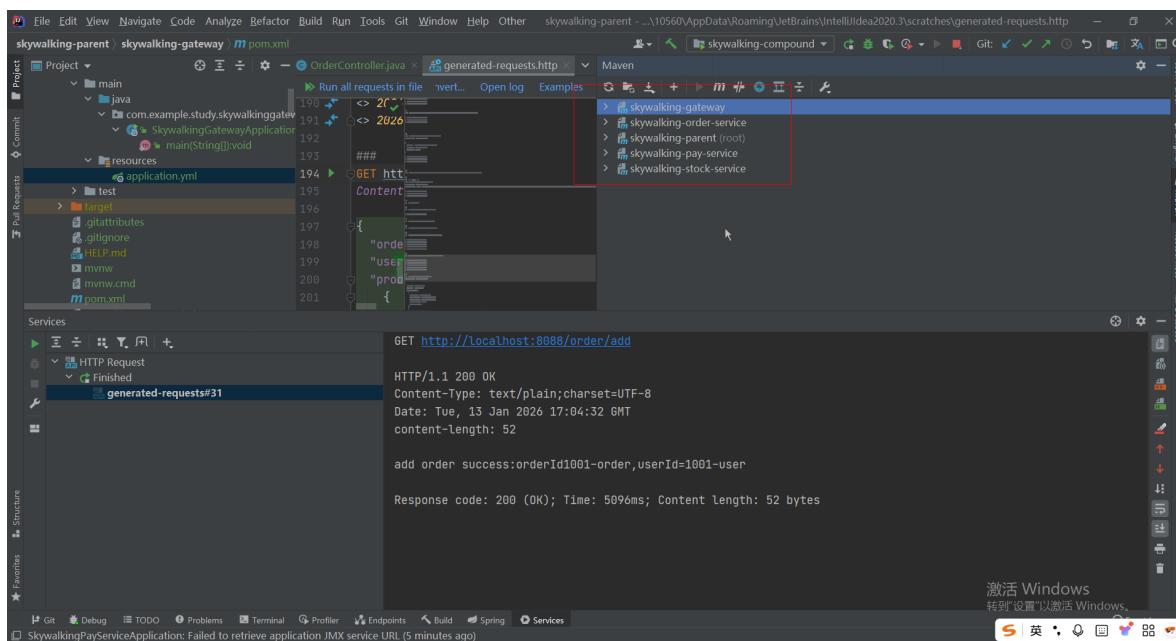
```
1 java -javaagent:/path/to/skywalking-agent/skywalking-agent.jar \  
2 -Dskywalking.agent.service_name=your-spring-boot-app \  
3 -Dskywalking.collector.backend_service=127.0.0.1:11800 \  
4 -jar your-spring-boot-app.jar
```

3.项目版本坑

```
1 1.如果你的skywalking是8以上的需要jdk11，否则启动失败
```

3.项目结构

```
1 1.skywalking-parent  
2 2.skywalking-gateway  
3 3.skywalking-order-service  
4 4.skywalking-pay-service  
5 5.skywalking-stock-service
```



1.启动项目时的vm option

```

1 -javaagent:s:\Professions\skywalking\soft\apache-skywalking-java-agent-
8.8.0\skywalking-agent/skywalking-agent.jar
2 -Dskywalking.agent.service_name=gateway-service
3 -Dskywalking.collector.backend_service=127.0.0.1:11800

```

2.skywalking-ui

The screenshot shows the SkyWalking UI dashboard at localhost:8688. The top navigation bar includes tabs for 仪表盘 (Dashboard), 拓扑图 (Topology), 追踪 (Tracing), 性能剖析 (Performance Analysis), 日志 (Logs), 告警 (Alerts), 事件 (Events), and 调试 (Debug). The main content area has tabs for APM, Database, Event, Istio, Istio Data Plane, K8s, SelfObservability, VM, and Web Browser. The current view is on the APM tab, specifically the Service Load section. It displays four panels: Services Load (CPM / PPM) with stock-service, pay-service, order-service, and gateway-service; Slow Services (ms) with gateway-service (3622 ms); Un-Health Services (Apdex) with gateway-service (0); and Slow Endpoints (ms) with gateway-service - /order/add (3622 ms). Below these are Global Response Latency (percentile in ms) and Global Heatmap (ms) sections.

The screenshot shows the SkyWalking UI tracing interface at localhost:8688/trace. The top navigation bar includes tabs for 仪表盘 (Dashboard), 拓扑图 (Topology), 追踪 (Tracing), 性能剖析 (Performance Analysis), 日志 (Logs), 告警 (Alerts), 事件 (Events), and 调试 (Debug). The main content area includes filters for 服务 (Service), 实例 (Instance), 锁点 (Lockpoint), 状态 (Status), and a search bar. The tracing results for the /order/add endpoint are displayed, showing a timeline from 2026-01-14 01:04:28 to 2026-01-14 01:04:28. The trace path includes SpringCloudGateway/RoutingFilter, SpringCloudGateway/sendRequest, GET:/order/add, /pay/orderPay, and GET:/pay/orderPay. The total duration for this trace is 3622 ms.

The screenshot shows the SkyWalking event monitoring interface at the URL localhost:8688/event. The top navigation bar includes links for Dashboard, Topology, Tracing, Performance Analysis, Logs, Alarms, Events, and Debug. The 'Events' tab is selected. The search bar shows '搜索' (Search) and the current page '1 / 1'. The main content area displays four event logs from January 14, 2026:

时间	事件
2026-01-14 01:03:39	Start Java Application 服务
2026-01-14 01:03:32	Start Java Application 服务
2026-01-14 01:03:24	Start Java Application 服务
2026-01-14 01:02:47	Start Java Application 服务

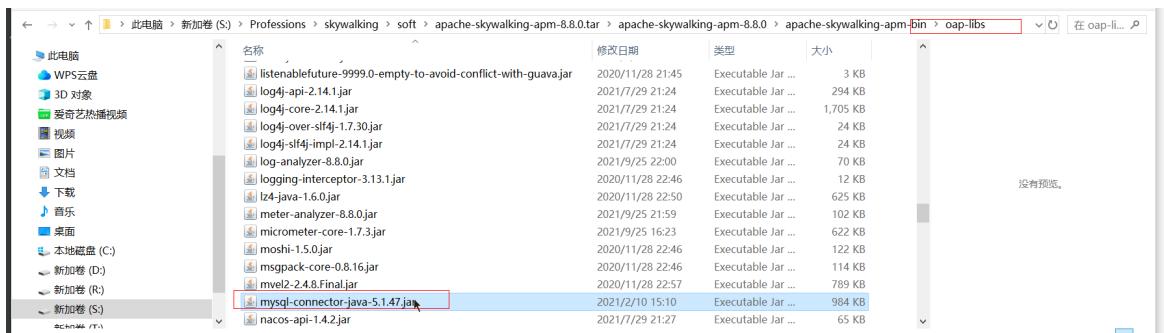
At the bottom right, there is a watermark: '激活 Windows 转到“设置”以激活 Windows.' and the date range '2026-01-14 00:57 ~ 2026-01-14 01:12'.

4.持久化放入mysql

1.修改skywalking配置文件

- 1 1. 先建一个空的数据库skywalking
- 2 2. 将mysql驱动的jar放入oap-libs中
- 3 3. 修改配置
- 4 4. 重启skywalking

- mybatis
- mybatis_plus_center
- mybatis-generator-study
- mybatis-study
- mymaven
- mysql
- nacos_config
- new_schema
- performance_schema
- quartz_test
- reactive_db
- read-mysql
- redis-project
- sakila
- school_library
- shiro_study
- ▼ skywalking
 - 表
 - 视图
 - 函数
 - 查询
 - 备份
- smart_admin
- smart-admin-dev
- spring
- spring_cloud_test
- spring_data_jpa_one
- springboot
- spring-boot-batch
- springboot-cache
- springboot-ehcache
- springboot-mybatis-test1
- springboot-savefile-to-database
- spring-post-transaction
- spring-seurity
- spring-security-apart
- sql_index



```
*S:\Professions\skywalking\soft\apache-skywalking-apm-8.8.0.tar\apache-skywalking-apm-8.8.0\apache-skywalking-apm-bin\config\application.yml - Notepad++ [Administrator]
文件(F) 编辑(E) 搜索(S) 视图(V) 编码(N) 语言(L) 设置(T) 工具(O) 宏(M) 运行(R) 插件(P) 窗口(W) ?
application.properties startup.cmd hosts redis.conf processus.yml application.yml application.yaml

112 # Define the set of log tag keys, which should be searchable through the GraphQL.
113 searchableLogTags: ${SW_SEARCHABLE_LOGS_TAGS:level}
114 # Define the set of alarm tag keys, which should be searchable through the GraphQL.
115 searchableAlarmTags: ${SW_SEARCHABLE_ALARM_TAGS:level}
116 # The number of threads used to prepare metrics data to the storage.
117 prepareThreads: ${SW_CORE_PREPARE_THREADS:2}
118 # Turn it on automatically grouping endpoint by the given OpenAPI definitions.
119 enableEndpointNameGroupingByOpenapi: ${SW_CORE_ENABLE_ENDPOINT_NAME_GROUPING_BY_OAOPENAPI:true}
120
121 storage:
122   selector: ${SW_STORAGE:mysql}
123   elasticSearch:
124     namespace: ${SW_NAMESPACE:""}
125     clusterNodes: ${SW_STORAGE_ES_CLUSTER_NODES:localhost:9200}
126     protocol: ${SW_STORAGE_ES_HTTP_PROTOCOL:"http"}
127     connectTimeout: ${SW_STORAGE_ES_CONNECT_TIMEOUT:500}
128     socketTimeout: ${SW_STORAGE_ES_SOCKET_TIMEOUT:30000}
129     numHttpClientThread: ${SW_STORAGE_ES_NUM_HTTP_CLIENT_THREAD:0}
130     user: ${SW_ES_USER:""}
131     password: ${SW_ES_PASSWORD:""}
132     trustStorePath: ${SW_STORAGE_ES_SSL_JKS_PATH:""}
133     trustStorePass: ${SW_STORAGE_ES_SSL_JKS_PASS:""}
134     secretsManagementFile: ${SW_ES_SECRETS_MANAGEMENT_FILE:""} # Secrets management file in the properties format includes the username, password, which are managed by the system.
135     dayStep: ${SW_STORAGE_DAY_STEP:1} # Represent the number of days in the one minute/hour/day index.
136     indexShardsNumber: ${SW_STORAGE_ES_INDEX_SHARDS_NUMBER:1} # Shard number of new indexes.
137     indexReplicasNumber: ${SW_STORAGE_ES_INDEX_REPLICAS_NUMBER:1} # Replicas number of new indexes.
138     # Super data set has been defined in the codes, such as trace segments. The following 3 config would be improve es performance when storage super size data in superDatasetDayStep: ${SW_SUPERDATASET_STORAGE_DAY_STEP:-1} # Represent the number of days in the super size dataset record index, the default value is the same as dayStep.

激活 Windows
转到“设置”以激活 Windows.
```

```
*S:\Professions\skywalking\soft\apache-skywalking-apm-8.8.0.tar\apache-skywalking-apm-8.8.0\apache-skywalking-apm-bin\config\application.yml - Notepad++ [Administrator]
文件(F) 编辑(E) 搜索(S) 视图(V) 编码(N) 语言(L) 设置(T) 工具(O) 宏(M) 运行(R) 插件(P) 窗口(W) ?
application.properties startup.cmd hosts redis.conf processus.yml application.yml application.yaml

157 user: ${SW_STORAGE_H2_USER:sa}
158 metadataQueryMaxSize: ${SW_STORAGE_H2_QUERY_MAX_SIZE:5000}
159 maxSizeOfArrayColumn: ${SW_STORAGE_MAX_SIZE_OF_ARRAY_COLUMN:20}
160 numOfSearchableValuesPerTag: ${SW_STORAGE_NUM_OF_SEARCHABLE_VALUES_PER_TAG:2}
161 maxSizeOfBatchSql: ${SW_STORAGE_MAX_SIZE_OF_BATCH_SQL:100}
162 asyncBatchPersistentPoolSize: ${SW_STORAGE_ASYNC_BATCH_PERSISTENT_POOL_SIZE:1}
163
164 mysql:
165   properties:
166     jdbcUrl: ${SW_JDBC_URL:"jdbc:mysql://localhost:3306/skywalking?rewriteBatchedStatements=true"}
167     dataSource.user: ${SW_DATA_SOURCE_USER:root}
168     dataSource.password: ${SW_DATA_SOURCE_PASSWORD:331224}
169     dataSource.cachePrepStmts: ${SW_DATA_SOURCE_CACHE_PREP_STMTS:true}
170     dataSource.prepStmtCacheSize: ${SW_DATA_SOURCE_PREP_STMT_CACHE_SQL_SIZE:250}
171     dataSource.prepStmtCacheSqlLimit: ${SW_DATA_SOURCE_PREP_STMT_CACHE_SQL_LIMIT:2048}
172     dataSource.useServerPrepStmts: ${SW_DATA_SOURCE_USE_SERVER_PREP_STMTS:true}
173     metaDataQueryMaxSize: ${SW_STORAGE_MYSQL_QUERY_MAX_SIZE:5000}
174     maxSizeOfArrayColumn: ${SW_STORAGE_MAX_SIZE_OF_ARRAY_COLUMN:20}
175     numOfSearchableValuesPerTag: ${SW_STORAGE_NUM_OF_SEARCHABLE_VALUES_PER_TAG:2}
176     maxSizeOfBatchSql: ${SW_STORAGE_MAX_SIZE_OF_BATCH_SQL:2000}
177     asyncBatchPersistentPoolSize: ${SW_STORAGE_ASYNC_BATCH_PERSISTENT_POOL_SIZE:4}
178
179 tidb:
180   properties:
181     jdbcUrl: ${SW_JDBC_URL:"jdbc:mysql://localhost:4000/tidbswtest?rewriteBatchedStatements=true"}
182     dataSource.user: ${SW_DATA_SOURCE_USER:root}
183     dataSource.password: ${SW_DATA_SOURCE_PASSWORD:""}
184     dataSource.cachePrepStmts: ${SW_DATA_SOURCE_CACHE_PREP_STMTS:true}
185     dataSource.prepStmtCacheSize: ${SW_DATA_SOURCE_PREP_STMT_CACHE_SQL_SIZE:250}
186     dataSource.prepStmtCacheSqlLimit: ${SW_DATA_SOURCE_PREP_STMT_CACHE_SQL_LIMIT:2048}
187     dataSource.useServerPrepStmts: ${SW_DATA_SOURCE_USE_SERVER_PREP_STMTS:true}

激活 Windows
转到“设置”以激活 Windows.
```

