**1. 사용한 JVM, 웹서버, WAS 제품 등의 종류와 설정 값, 버전 정보**

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| **이름** | **내용** |
| **Backend** | * JVM : JDK 17 * Apache Tomcat : 10.1.34 * Nginx : 1.27.4 * Intellij IDEA : 2024.3.1.1 |
| **AI** | * PyCharm : 2024.3.1.1 * Python : 3.11 * libgl1-mesa-gix * libglib2.0-0 * libsm6 * libxext6 * libxrender1 |
| **Frontend** | * React v18.3.1 * TypeScript v5.6.2 * Vite v6.0.5   상태 관리:   * @reduxjs/toolkit v2.5.1 * react-redux v9.2.0 * redux-persist v6.0.0 * @tanstack/react-query v5.66.0   UI/스타일링:   * tailwindcss v4.0.0 * lucide-react v0.474.0   데이터 시각화/미디어:   * chart.js v4.4.7 * react-chartjs-2 v5.3.0 * react-webcam v7.2.0 * react-sketch-canvas v6.2.0 * swiper v11.2.4   통신/실시간:   * axios v1.7.9 socket.io-client v4.8.1 * @stomp/stompjs v7.0.0 * ws v8.18.0   인증/외부 서비스:   * @react-oauth/google v0.12.1 firebase v11.3.1   유틸리티:   * date-fns v4.1.0 * react-router-dom v7.1.3 * react-intersection-observer v9.15.1 * canvas-confetti v1.9.3 * react-daum-postcode v3.2.0   API: 카카오지도 API |

**2. 빌드 시 사용되는 환경 변수**

.env

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| # Database Configuration  SPRING\_DATASOURCE\_URL=jdbc:mysql://i12a407.p.ssafy.io:3306/iscream  SPRING\_DATASOURCE\_USERNAME=root  SPRING\_DATASOURCE\_PASSWORD=a407\*123!root  # JPA & Hibernate Configuration  SPRING\_JPA\_SHOW\_SQL=true  SPRING\_JPA\_HIBERNATE\_DDL\_AUTO=none  SPRING\_JPA\_PROPERTIES\_HIBERNATE\_DIALECT=org.hibernate.dialect.MySQL8Dialect  # JWT Authentication  SPRING\_AUTH\_JWT\_SECRET\_KEY=snssnssnssnssnssnssnssnssnssnssnssnssnssnssnssnssnssnssnssnssnssnssns  SPRING\_AUTH\_JWT\_REFRESH\_TOKEN\_EXPIRY=8640000000  SPRING\_AUTH\_JWT\_ACCESS\_TOKEN\_EXPIRY=60000000  # AWS S3 Configuration  CLOUD\_AWS\_CREDENTIALS\_ACCESS\_KEY=AKIAYXWBN3L2LMPA2W6O  CLOUD\_AWS\_CREDENTIALS\_SECRET\_KEY=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  CLOUD\_AWS\_S3\_BUCKET=a407-20250124  CLOUD\_AWS\_REGION\_STATIC=ap-northeast-2  CLOUD\_AWS\_STACK\_AUTO=false  SPRING\_CLOUD\_AWS\_S3\_ENABLED=false  # S3 Upload Paths  S3\_UPLOAD\_FOLDER\_IMAGE=images/  S3\_UPLOAD\_FOLDER\_RESULT=result/  S3\_UPLOAD\_FILE\_URL=https://a407-20250124.s3.ap-northeast-2.amazonaws.com/  # Redis Configuration  SPRING\_DATA\_REDIS\_HOST=i12a407.p.ssafy.io  SPRING\_DATA\_REDIS\_PORT=6379  # MongoDB Configuration  SPRING\_DATA\_MONGODB\_HOST=i12a407.p.ssafy.io  SPRING\_DATA\_MONGODB\_PORT=27017  SPRING\_DATA\_MONGODB\_USERNAME=ssafy  SPRING\_DATA\_MONGODB\_PASSWORD=ssafy123ssafy  SPRING\_DATA\_MONGODB\_DBNAME=chatdb  # Google OAuth2 Configuration  SPRING\_SECURITY\_OAUTH2\_CLIENT\_REGISTRATION\_GOOGLE\_CLIENT\_NAME=google  SPRING\_SECURITY\_OAUTH2\_CLIENT\_REGISTRATION\_GOOGLE\_CLIENT\_ID=500251459785-jt83i1u8dq66ecvjr6it8mc6orcj40m7.apps.googleusercontent.com  SPRING\_SECURITY\_OAUTH2\_CLIENT\_REGISTRATION\_GOOGLE\_CLIENT\_SECRET=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  SPRING\_SECURITY\_OAUTH2\_CLIENT\_REGISTRATION\_GOOGLE\_REDIRECT\_URI=http://localhost:8080/login/oauth2/code/google  SPRING\_SECURITY\_OAUTH2\_CLIENT\_REGISTRATION\_GOOGLE\_AUTHORIZATION\_GRANT\_TYPE=authorization\_code  SPRING\_SECURITY\_OAUTH2\_CLIENT\_REGISTRATION\_GOOGLE\_SCOPE=profile,email  OPENAI\_API\_KEY=sk-proj-PeK064WQcJj8IRQ11ipIJLafWPqtV2OaXwgp7ONAeWKEmszu354xpYtZxrk29tZpxflUfF6LjTT3BlbkFJJwNg6ONTe06BBH-awtRREaNhzXLV6-hEOVs4tUYmVB44kK4jeewMGeP9gTtW4q3AXKPgdt5\_kA  UPSTAGE\_API\_KEY=up\_QDpV3yORp0hlFXGphexsJVjrOfufR  FIREBASE\_CONFIG\_BASE64= |

**3. 배포 시 특이사항**

O Jenkins 사용

O 우분투 방화벽

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| [ 1] 22 ALLOW IN Anywhere  [ 2] 80 ALLOW IN Anywhere  [ 3] 44 ALLOW IN Anywhere  [ 4] 8989 ALLOW IN Anywhere  [ 5] 443 ALLOW IN Anywhere  [ 6] 3306 ALLOW IN Anywhere  [ 7] 50000 ALLOW IN Anywhere  [ 8] 8081 ALLOW IN Anywhere  [ 9] 8080 ALLOW IN Anywhere  [10] 8000 ALLOW IN Anywhere  [11] 9090 ALLOW IN Anywhere  [12] 5273 ALLOW IN Anywhere  [13] 8082 ALLOW IN Anywhere  [14] 27017 ALLOW IN Anywhere  [15] 27017/tcp ALLOW IN Anywhere  [16] 5228 ALLOW IN Anywhere  [17] 5229 ALLOW IN Anywhere  [18] 5230 ALLOW IN Anywhere  [19] 3000 ALLOW IN Anywhere  [20] 6379 ALLOW IN Anywhere  [21] 22 (v6) ALLOW IN Anywhere (v6)  [22] 80 (v6) ALLOW IN Anywhere (v6)  [23] 44 (v6) ALLOW IN Anywhere (v6)  [24] 8989 (v6) ALLOW IN Anywhere (v6)  [25] 443 (v6) ALLOW IN Anywhere (v6)  [26] 3306 (v6) ALLOW IN Anywhere (v6)  [27] 50000 (v6) ALLOW IN Anywhere (v6)  [28] 8081 (v6) ALLOW IN Anywhere (v6)  [29] 8080 (v6) ALLOW IN Anywhere (v6)  [30] 8000 (v6) ALLOW IN Anywhere (v6)  [31] 9090 (v6) ALLOW IN Anywhere (v6)  [32] 5273 (v6) ALLOW IN Anywhere (v6)  [33] 8082 (v6) ALLOW IN Anywhere (v6)  [34] 27017 (v6) ALLOW IN Anywhere (v6)  [35] 27017/tcp (v6) ALLOW IN Anywhere (v6)  [36] 5228 (v6) ALLOW IN Anywhere (v6)  [37] 5229 (v6) ALLOW IN Anywhere (v6)  [38] 5230 (v6) ALLOW IN Anywhere (v6)  [39] 3000 (v6) ALLOW IN Anywhere (v6)  [40] 6379 (v6) ALLOW IN Anywhere (v6) |

O 한국 시간대 설정해야 정확함

**4. DB 접속 정보 및 프로젝트에서 활용되는 주요 계정 정보**

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| **DB** | **username** | **Password** | **Schema or Collection** |
| MySQL | Root | coldbrew!nice\*tree | iscream |
| MongoDB | ssafy | ssafy123ssafy | Chatdb |