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|  | **버전(정보)** |
| **서버** | OS: CentOS7  접근방법: SSH  instance-producer  IP: 34.64.89.11  Port: tcp/9990 for Netty connection  User for application execution: app  instance-kafka1  IP: 34.64.120.38  Port: tcp/9092 for Kafka cluster connection  znode: zookeeper1:2181/kafka1  broker\_id: 1  instance-zookeeper1  IP: 34.64.239.98  Port: tcp/2181 for Zookeeper connection  instance-consumer  IP: 34.64.231.113  Port: tcp/9200 for elasticsearch |
| **Java** | 1.8.0 |
| **Maven** | 3.6.3 |
| **Spring Boot** | 2.3.3 |
| **Kafka** | 2.12-2.5.0 |
| **Zookeeper** | 3.6.1 |
| **Spark Streaming** | 3.0.0 |
| **Elasticsearch** | 7.9.2 |
| **Kibana** | 7.9.2 |
| **MariaDB** | 계정 : cesco  DB이름 : capstone |
| **Node.js** | Node.js : 14.5.0  npm : 6.14.5 |
| **Apache JMeter** | 5.3 |