강재구

1. KNIME Server

1.1. KNIME Server

종류	용도
Server Large	Enterprise
Server Medium	Smaller orgs
Server Small	Small team / Getting Started

1.1.1 KNIME Server 특징

1. Tomcat Server 기반

2. KNIME USER에게 공유 원격 저장소를 제공

3. KNIME WebPortal 혹은 RESTful로 실행 가능

4. KNIME Server Component

    4.1. Server Side Component

    ```
    - KNIME Analytics Platform를 통해 Work Flow execute
    - Tomcat Server 에 설치되어짐(Tomcat User와 동일User로 설치하는 것을 권장)
    ```

    4.2. Client Interface

    ```
    - Server Repository와 상호작용
    - KNIME Analytics Platform 및 KNIME WebPortal과 통합
                    or
    - REST API를 통해 액세스 가능
    ```

1.1.2 Prerequisites

	OS	Resource(Recommend)	JDK	Repository
Server	Windows Server 2016, 2019 Ubuntu 16.04 LTS. 18.04 LTS RHEL/CentOS 6.7+, 7.x	64 bits 16GB RAM 8 CPU	JDK 8	250GB disk
Client	Windows Linux macOS	.	.	.

1.2. Server에서 제공하는 서비스/가격

Feature and Description	KNIME Server Small	KNIME Server Medium	KNIME Server Large
Collaboration			
Share workflows and control access rights	✔	✔	✔
Upload and share components to enable users to reuse most common functionalities	✔	✔	✔
Encrypt metanodes to secure content and protect intellectual property			✔
Customize the node repository to ease use and ensure compliance			✔
Automation			
Execute workflows on the server or on a cluster	✔	✔	✔
Schedule a workflow or report to be executed at a certain time, or periodically	✔	✔	✔
Modify and execute workflows on KNIME Server to take advantage of well provisioned hardware in a secure environment	✔	✔	✔
Scale workflow execution to multiple machines using distributed executors			✔
Execute big data workflows remotely. Enables access to Apache Hadoop and Spark from KNIME workflows			✔
Deployment			
Give consumers access to analytical applications and services via the KNIME WebPortal or REST API	Licensed users only	Additional consumers	Unlimited consumers
Create and deploy Guided Analytics	✔	✔	✔
Deploy workflows via the REST API to allow access from other applications		✔	✔
Management			
Manage user credentials locally for smaller teams	✔	✔	✔
Create workflow snapshots and compare to previous versions	✔	✔	✔
Monitor server activity (running and scheduled jobs), adjust permissions, manage ongoing services	✔	✔	✔
IT operations via central management of settings for multiple KNIME Analytics Platform installations and customizations in order to adhere to corporate identities		✔	✔
Integrate authentication with corporate LDAP / Active Directory setups and manage permissions			✔
General			
Number of server installations	1	1	Multiple
Subscription for professional support service via ticket system or forum	Forum / Email	Email	Email
Annual Subscription (based on 5 users and 8 cores)	KNIME Server for Azure KNIME Server for AWS	25.000 EUR 29,000 USD	45.500 EUR 52,000 USD

◉ r5.2xlarge ★Vendor Recommended	$1.164	$0.504	$1.668

- 약 1800만원/년

1.2.1. End User Side에서 서비스 제공받는 방법

- KNIME Analytics Platform 및 KNIME WebPortal과 통합
- REST API

2. KNIME Analytics Platform 설치

링크

3. 참고링크

KNIME Server Installation Guide

KNIME Server Administration Guide

KNIME Server

4. 기타

방법 1. KNIME Server 사용

- KNIME Analytics Platform -> KNIME Server -> Client

방법 2. Event Listen

- KNIME Analytics Platform -> *.csv File -> Client