

# Clowder Requirements

Following is a list of requirements for the Clowder software. Besides JAVA you can have all other services/software installed on other machines and can configure clowder to communicate with these services.

Software	Version	Required for	Notes
JAVA	1.8+	always	The clowder software is written in Scala and javascript and requires JAVA to execute. Clowder has been tested with OpenJDK
<a href="#">MongoDB</a>	3.2-3.5 (3.6 not supported)	always	Clowder uses MongoDB to store the information about the files and if configured the files as well.
<a href="#">RabbitMQ</a>	3.5+	extractors	RabbitMQ is used to communicate between Clowder and the extractors. When deploying extractors it is required to deploy RabbitMQ as well.
<a href="#">ElasticSearch</a>	2.x+ (5.x+ not supported)	searching	ElasticSearch is used to search Clowder. We have not tested clowder with version 2.0 or larger of ElasticSearch
<a href="#">GeoServer</a>	2.7+	geospatial overlays	GeoServer is used to with the geospatial extractor to generate overlays for maps.