1. REDIS 설치

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| brew install redis  ln -sfv /usr/local/opt/redis/\*.plist ~/Library/LaunchAgents  launchctl load ~/Library/LaunchAgents/homebrew.mxcl.redis.plist  brew services  launchctl unload ~/Library/LaunchAgents/homebrew.mxcl.redis.plist    redis-cli ping  redis-server /usr/local/etc/redis.conf  PATH /usr/local/Cellar/rabbitmq/3.8.3/sbin  sudo rabbitmqctl add\_user jm-user1 sample  sudo rabbitmqctl add\_vhost jm-vhost  sudo rabbitmqctl set\_permissions -p jm-vhost jm-user1 ".\*" ".\*" ".\*" |

1. Rabbitmq-setver 실행

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| sudo rabbitmq-server  app = Celery('tasks', broker='amqp://jm-user1:sample@localhost/jm-vhost') |

1. REDIS 서버 실행

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| redis-server /usr/local/etc/redis.conf |

<https://medium.com/@petehouston/install-and-config-redis-on-mac-os-x-via-homebrew-eb8df9a4f298>

1. IPFS 시작하기

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| >ipfs init  initializing IPFS node at /Users/Yunhee/.ipfs  generating 2048-bit RSA keypair...done  peer identity: QmU6394YcFCbP1bfbKZyudYspwgkb7KWz2VczNoJQWxu7a  to get started, enter:  ipfs cat /ipfs/QmS4ustL54uo8FzR9455qaxZwuMiUhyvMcX9Ba8nUH4uVv/readme  >ipfs add hello.txt  added QmT78zSuBmuS4z925WZfrqQ1qHaJ56DQaTfyMUF7F8ff5o hello.txt  12 B / 12 B [=========================================================] 100.00%  >ipfs daemon  >ipfs cat QmT78zSuBmuS4z925WZfrqQ1qHaJ56DQaTfyMUF7F8ff5o  hello world  hash= QmT78zSuBmuS4z925WZfrqQ1qHaJ56DQaTfyMUF7F8ff5o  **curl** [**http://127.0.0.1:8080/ipfs/$hash**](http://127.0.0.1:8080/ipfs/$hash)  > hash=`echo "I <3 IPFS -$(whoami)" | ipfs add -q`  > curl "http://127.0.0.1:8080/ipfs/$hash"  I <3 IPFS -<your username>  # Web Console 확인  <http://localhost:5001/webui>  [REF] <https://docs.ipfs.io/introduction/usage/> |

Ipfshttpclient

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| The ipfsapi PIP package and Python module have both been renamed to ipfshttpclient  pip install ipfshttpclient  python ipfs\_add.py  python ipfs\_add.py  {'Name': 'alice.pem', 'Hash': 'QmYezjSSrsVvXLT6nt4eECgRgtLwPmZp6PmsRZcCZRKaTy', 'Size': '1686'}  python ipfs\_cat.py --i QmYezjSSrsVvXLT6nt4eECgRgtLwPmZp6PmsRZcCZRKaTy  <https://github.com/ipfs-shipyard/py-ipfs-http-client> |