### **ROH**

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Overview

#### What is a ROH?

ROH is a distributed Python tasks manager.

It is possible to distribute python tasks across the network to different nodes

#### When to Use ROH?

To distribute loads

# Let's see some python code

The following snippet shows some internals.

the AMQP module

- 1 We define an exchange
- 2 We bind a queue
- 3 We send the ACK

Name Description		
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exchange	The exchange to bind to
queue	The queue to bind to
routing_key	The routing key to bind with
arguments	Other properties (construction arguments) for the binding
nowait	Do not wait for the response
callback	A callback method taking one argument, the bound queue
ticket	The ticket number

## Let's see some erlang code

The following snippet shows some internals.

erlang module

```
-spec(handle_call(Request :: term(), From :: {pid(), Tag :: term()}, % ①
    State :: #state{}) ->
    {reply, Reply :: term(), NewState :: #state{}} |
    {reply, Reply :: term(), NewState :: #state{}, timeout() | hibernate} |
    {noreply, NewState :: #state{}} |
    {noreply, NewState :: #state{}, timeout() | hibernate} |
    {stop, Reason :: term(), Reply :: term(), NewState :: #state{}} |
    {stop, Reason :: term(), NewState :: #state{}}).
handle_call({add_task, Task}, _From,
    State = #state{running workers = MRW, waiting queue = QWQ, supervisor = Sup}) ->
    case is_watermark_processes(MRW) of % ②
        true ->
            QWQ2 = queue:in(Task, QWQ),
            roh_console_log:info("Added in waiting list, current size: ~w",
[queue:len(QWQ2)]),
            {reply, ok, State#state{waiting_queue = QWQ2, global = State#state.global
+ 1}};
        false -> MRW2 = execute_new_worker(Task, Sup, MRW),
            {reply, ok, State#state{running workers = MRW2, global =
State#state.global + 1}} % ③
    end;
```

- ① Define the type for the analyzer
- 2 check the watermark
- 3 execute the task