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**seddy**

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Multi-workflow SWF decider and workflow management service.



## INSTALLATION

```
pip3 install seddy
```





## DOCUMENTATION

## 2.1 seddy

### 2.1.1 seddy.decider

SWF decider.

#### Classes:

---

<i>Decider</i> (workflows_spec_file, domain, task_list)	SWF decider.
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#### Exceptions:

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<i>UnsupportedWorkflow</i>	Decider doesn't support workflow.
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---

#### Functions:

---

<i>run_app</i> (workflows_spec_file, domain, task_list)	Run decider application.
---	--------------------------

---

**class** seddy.decider.**Decider** (workflows\_spec\_file: pathlib.Path, domain: str, task\_list: str, identity: str = None)

Bases: object

SWF decider.

#### Parameters

- **workflows\_spec\_file** – workflows specifications file path
- **domain** – SWF domain to poll in
- **task\_list** – SWF decider task-list
- **identity** – decider identity, default: automatically generated from fully-qualified domain-name and a UUID

#### client

SWF client

**Type** boto3.client.BaseClient

#### identity

name of decider to poll as

**Type** str

**Methods:**

<code>run()</code>	Run decider.
--------------------	--------------

`run()`  
Run decider.

**exception** `seddy.decider.UnsupportedWorkflow`

Bases: `LookupError`

Decider doesn't support workflow.

`seddy.decider.run_app(workflows_spec_file: pathlib.Path, domain: str, task_list: str, identity: str = None)`

Run decider application.

**Parameters**

- **workflows\_spec\_file** – workflows specifications file path
- **domain** – SWF domain
- **task\_list** – SWF decider task-list
- **identity** – decider identity, default: automatically generated

## 2.1.2 seddy.registration

SWF workflow registration.

**Functions:**

<code>deprecate_workflow(workflow, domain, client)</code>	Deprecate a workflow in SWF.
<code>list_workflows(domain, client)</code>	List all workflows in SWF, including registered and deprecated.
<code>register_workflow(workflow, domain, client)</code>	Register a workflow with SWF.
<code>register_workflows(workflows, domain)</code>	Synchronise workflow registration with SWF.
<code>run_app(workflows_spec_file, domain)</code>	Run registration synchronisation application.
<code>undeprecate_workflow(workflow, domain, client)</code>	Undeprecate a workflow in SWF.

`seddy.registration.deprecate_workflow(workflow: seddy._specs._base.Workflow, domain: str, client)`

Deprecate a workflow in SWF.

**Parameters**

- **workflow** – specification of workflow to deprecate
- **domain** – domain to deprecate workflow in
- **client** (`botocore.client.BaseClient`) – SWF client

`seddy.registration.list_workflows(domain: str, client) → Dict[Tuple[str, str], bool]`

List all workflows in SWF, including registered and deprecated.

**Parameters**

- **domain** – domain to list workflows of
- **client** (`botocore.client.BaseClient`) – SWF client

**Returns** names, versions and registration status of workflows in SWF

`seddy.registration.register_workflow` (*workflow*: `seddy._specs._base.Workflow`, *domain*: *str*, *client*)

Register a workflow with SWF.

**Parameters**

- **workflow** – specification of workflow to register
- **domain** – domain to register workflow in
- **client** (`botocore.client.BaseClient`) – SWF client

`seddy.registration.register_workflows` (*workflows*: `List[seddy._specs._base.Workflow]`, *domain*: *str*)

Synchronise workflow registration with SWF.

**Parameters**

- **workflows** – specifications of workflows to register
- **domain** – domain to register workflows in

`seddy.registration.run_app` (*workflows\_spec\_file*: `pathlib.Path`, *domain*: *str*)

Run registration synchronisation application.

**Parameters**

- **workflows\_spec\_file** – workflows specifications file path
- **domain** – SWF domain

`seddy.registration.undeprecate_workflow` (*workflow*: `seddy._specs._base.Workflow`, *domain*: *str*, *client*)

Undeprecate a workflow in SWF.

**Parameters**

- **workflow** – specification of workflow to undeprecate
- **domain** – domain to undeprecate workflow in
- **client** (`botocore.client.BaseClient`) – SWF client

Multi-workflow SWF decider and workflow management service.

**Classes:**

<code>ChildPolicy</code>	Policy for child executions on parent termination.
<code>Registration</code> ( <i>active</i> , <i>task_timeout</i> , ...)	Workflow registration configuration.
<code>DecisionsBuilder</code> ( <i>workflow</i> , <i>task</i> )	SWF decision builder.
<code>Workflow</code> ( <i>name</i> , <i>version</i> [, <i>description</i> , ...])	SWF workflow specification.
<code>DAGBuilder</code> ( <i>workflow</i> , <i>task</i> )	SWF decision builder from DAG-type workflow specification.
<code>DAGWorkflow</code> ( <i>name</i> , <i>version</i> , <i>task_specs</i> [, ...])	Dag-type SWF workflow specification.

**Functions:**

<code>load_workflows</code> ( <i>workflows_file</i> )	Load workflows specifications file.
---	-------------------------------------

**class** `seddy.ChildPolicy`

Bases: `enum.Enum`

Policy for child executions on parent termination.

**See also:**

[StartWorkflowExecution](#) in SWF API documentation

**Attributes:**

---

*ABANDON*

---

*REQUEST\_CANCEL*

---

*TERMINATE*

---

**ABANDON** = 'ABANDON'

**REQUEST\_CANCEL** = 'REQUEST\_CANCEL'

**TERMINATE** = 'TERMINATE'

```
class seddy.Registration(active: bool = True, task_timeout: Union[int, str] = None, execution_timeout: int = None, task_list: str = None, task_priority: int = None, child_policy: seddy._specs._base.ChildPolicy = None, lambda_role: str = None)
```

Bases: object

Workflow registration configuration.

**Parameters**

- **active** – registration status, False for deprecated
- **task\_timeout** – default decision task time-out (seconds), or “NONE” for unlimited
- **execution\_timeout** – default workflow execution time-out (seconds)
- **task\_list** – default decision task-list
- **task\_priority** – default decision task priority
- **child\_policy** – default policy for child executions upon parent execution termination
- **lambda\_role** – default IAM role for Lambda access

**Attributes:**

---

*active*

---

*child\_policy*

---

*execution\_timeout*

---

*lambda\_role*

---

*task\_list*

---

*task\_priority*

---

*task\_timeout*

---

**Methods:**

---

<i>from_spec</i> (spec)	Construct registration configuration from specification.
-------------------------	--

---

**active:** bool = True

**child\_policy:** seddy.\_specs.\_base.ChildPolicy = None

**execution\_timeout:** `int = None`

**classmethod from\_spec** (*spec: Dict[str, Any]*)  
Construct registration configuration from specification.

**Parameters** *spec* – workflow registration configuration specification

**lambda\_role:** `str = None`

**task\_list:** `str = None`

**task\_priority:** `int = None`

**task\_timeout:** `Union[int, str] = None`

**class** `seddy.DecisionsBuilder` (*workflow: seddy.\_specs.\_base.Workflow, task: Dict[str, Any]*)

Bases: `object`

SWF decision builder.

#### Parameters

- **workflow** – workflow specification
- **task** – decision task

#### Methods:

---

<code>build_decisions()</code>	Build decisions from workflow history.
--------------------------------	--

---

**abstract build\_decisions** ()

Build decisions from workflow history.

**class** `seddy.Workflow` (*name: str, version: str, description: str = None, registration: seddy.\_specs.\_base.Registration = None*)

Bases: `object`

SWF workflow specification.

#### Parameters

- **name** – workflow name
- **version** – workflow version
- **registration** – workflow registration configuration

#### Attributes:

---

<code>decisions_builder</code>
<code>spec_type</code>

---

#### Methods:

---

<code>from_spec(spec)</code>	Construct workflow type from specification.
<code>make_decisions(task)</code>	Build decisions from workflow history.
<code>setup()</code>	Set up workflow specification.

---

**abstract property decisions\_builder**

**classmethod from\_spec** (*spec: Dict[str, Any]*)

Construct workflow type from specification.

**Parameters** **spec** – workflow specification

**make\_decisions** (*task: Dict[str, Any]*) → List[Dict[str, Any]]  
Build decisions from workflow history.

**Parameters** **task** – decision task

**Returns** workflow decisions

**setup** ()  
Set up workflow specification.  
Useful for pre-calculation or other initialisation.

**abstract property spec\_type**

**class** `seddy.DAGBuilder` (*workflow: seddy.\_specs.\_dag.DAGWorkflow, task*)  
Bases: `seddy._specs._base.DecisionsBuilder`  
SWF decision builder from DAG-type workflow specification.

**Methods:**

---

<code>build_decisions()</code>	Build decisions from workflow history.
--------------------------------	--

---

**build\_decisions** ()  
Build decisions from workflow history.

**class** `seddy.DAGWorkflow` (*name, version, task\_specs: List[seddy.\_specs.\_dag.Task], description=None*)  
Bases: `seddy._specs._base.Workflow`  
Dag-type SWF workflow specification.

**Parameters**

- **name** – workflow name
- **version** – workflow version
- **task\_specs** – DAG task specifications

**Classes:**

---

<code>decisions_builder</code>	alias of <code>DAGBuilder</code>
--------------------------------	----------------------------------

---

**Attributes:**

---

<code>seddy.DAGWorkflow.dependants</code>
<code>spec_type</code>

---

**Methods:**

---

<code>setup()</code>	Set up workflow specification.
----------------------	--------------------------------

---

**decisions\_builder**  
alias of `DAGBuilder` **Methods:**

<code>build_decisions()</code>	Build decisions from workflow history.
--------------------------------	--

**dependants:** `t.Dict[t.Union[None, str], t.List[str]] = None`

**setup()**

Set up workflow specification.

Useful for pre-calculation or other initialisation.

**spec\_type = 'dag'**

`seddy.load_workflows(workflows_file: pathlib.Path) → List[seddy._specs._base.Workflow]`

Load workflows specifications file.

Determines load method from the file suffix. Supported file types:

- JSON
- YAML

**Parameters** `workflows_file` – workflows specifications file path

**Returns** workflows specifications

## 2.2 Command-line application

*seddy* provides a command-line interface for the as-built production service. The interface documentation can be accessed with:

```
seddy -h
```

### 2.2.1 Docker

Instead of installing *seddy* locally, you can use our pre-built Docker image

```
docker run -v /path/to/workflow/file/parent:/seddy-data seddy -h
```

## 2.3 Data exchange in executions

**See also:**

[Data exchange SWF documentation](#)

SWF will always pass around strings for workflow and activity input and result, however *seddy* will always JSON-deserialise it during processing. To get an arbitrary string as input or result, simply provide a JSON string, eg `"foo: bar"` (ie include the double-quotes in the string).

### 2.3.1 DAG-type workflows result

The workflow result is built from the task results. Specifically, the task ID is used as the key, the task's result as the value.

For example, a workflow with task IDs “task1”, “task2”, “task3” and “task4” could have execution result:

```
{ "task1": "eggs", "task3": null, "task4": { "c": [1, 2] } }
```

Note that a task won't have a corresponding entry in the workflow result if the task doesn't provide a result.

### 2.3.2 Basic single-valued JSONPath

This is a subset of the JSONPath syntax, where only one value is to be retrieved, and no functions are performed. The format rules are:

- must start with \$, for the root item
- object keys are prefixed by .
- array indices are enclosed by [ and ]
- child items are specified to the right

For example, suppose with the item

```
{ "eggs": [ { "spam": { "swallow": [null, null, 42] } } ] }
```

Then the JSONPath \$.eggs[0].spam.swallow[2] would give 42, and the JSONPath \$.eggs[0].spam would give { "swallow": [null, null, 42] }.

## 2.4 Workflows specifications

Workflows specified in a workflows specs file can have different specification types. The supported types follow:

### 2.4.1 DAG-type workflow specification

A DAG (directed acyclic graph) workflow is a series of tasks that are scheduled to run after their dependencies have finished. See *DAG-type workflows result* for the result of a DAG workflow.

#### Specification

A DAG-type workflow (element of `workflows`) has specification

- **spec\_type** (*string*): specification type, must be `dag`
- **name**, **version**, **description** and **registration**: see *Common specification*
- **tasks** (*array[object]*): array of workflow activity tasks to be run during execution, see *ScheduleActivityTaskDecisionAttributes*
  - **id** (*string*): task ID, must be unique within a workflow execution and without `:`, `/`, `|`, `arn` or any control character
  - **type** (*object*): activity type, with **name** (*str*, activity name) and **version** (*str*, activity version)



- **input** (*object*): activity input definition, see *Input*
- **heartbeat** (*int* or *"NONE"*): optional, task heartbeat time-out (seconds), or *"NONE"* for unlimited
- **timeout** (*int*): optional, task time-out (seconds), or *"None"* for unlimited
- **task\_list** (*string*): optional, task-list to schedule task on
- **priority** (*int*): optional, task priority
- **dependencies** (*array[string]*): optional, IDs of task's dependents

## Input

There are multiple options when defining activity task input. In the task input specification (aka input-spec), **type** can have one of the following values:

- **none**: no value will be passed as input, meaning there will be no **input** key in the poll-for-activity-task response provided to the worker.

```
input:
  type: none
```

- **constant**: the activity will be passed **value** in the input-spec, which can be any valid type.

```
input:
  type: constant
  value: 42
```

```
input:
  type: constant
  value:
    spam:
      - foo: bar
        eggs: 42
      - null
    swallow: false
```

- **workflow-input**: the activity will be passed a portion of the workflow input, according to **path** in the input-spec (see *Basic single-valued JSONPath* for its syntax). **path** can be omitted, defaulting to *"\$"* (the entire workflow input). Specify **default** to allow missing values, instead using the value of **default**

```
input:
  type: workflow-input
```

```
id: foo
input:
  type: workflow-input
  path: $.foo
```

```
input:
  type: workflow-input
  path: $.spam[0].eggs.swallow[2]
```

- **dependency-result**: the activity will be passed a portion of one of its dependencies' results, with the dependency activity task with ID **id** in the input-spec, according to **path** in the input-spec (see *Basic single-valued JSONPath* for its syntax). **path** can be omitted, defaulting to *"\$"* (the entire dependency result). Specify **default** to allow missing values, instead using the value of **default**

```
dependencies:
- foo
- bar
input:
  type: dependency-result
  id: bar
```

```
dependencies:
- foo
- bar
input:
  type: dependency-result
  id: bar
  path: $.swallow[2]
```

- **object:** you can have *seddy* build an object to be passed to the activity, with the value of each key being specified by its own input specification, as defined by **items** in the input-spec. This can be done recursively.

```
dependencies:
- foo
- bar
input:
  type: object
  items:
    spam:
      type: dependency-result
      id: foo
      path: $.swallow[2]
    eggs:
      type: object
      items:
        cheese:
          type: constant
          value: null
        pie:
          type: workflow-input
          path: $.spam[0].eggs.swallow[2]
        gravy:
          type: dependency-result
          id: bar
    ham:
      type: constant
      value: 42
```

## Example

```
spec_type: dag
name: spam
version: "1.0"
description: A workflow with spam, spam, eggs and spam.
registration:
  active: true
  task_timeout: 5
  execution_timeout: 3600
  task_list: coffee
```

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```

tasks:
- id: foo
  type:
    name: spam-foo
    version: "0.3"
  input:
    type: workflow-input
    value: $.foo
  timeout: 10
  task_list: eggs
  priority: 1
- id: bar
  type:
    name: spam-foo
    version: "0.4"
  input:
    type: constant
    value: 42
  timeout: 10
  task_list: eggs
  dependencies:
    - foo

```

## 2.4.2 Specification

The workflow file has structure

- **version** (*string*): workflow specifications file version
- **workflows** (*array*): workflows' specifications

## 2.4.3 Common specification

A workflow (element of `workflows`) has common specification

- **spec\_type** (*string*): specification type
- **name** (*string*): workflow name
- **version** (*string*): workflow version
- **description** (*string*): optional, workflow description
- **registration** (*object*): optional, specifies workflow registration status default configuration, see [RegisterWorkflowType](#)
  - **active** (*boolean*): optional (default: true), intended workflow registration status (mark as false to deprecate a workflow)
  - **task\_timeout** (*int* or *"NONE"*): optional, default decision task time-out (seconds), "NONE" for unlimited
  - **execution\_timeout** (*int*): optional, default workflow execution time-out (seconds)
  - **task\_list** (*string*): optional, default decision task-list, see [task lists](#)
  - **task\_priority** (*int*): optional, default decision task-list, see [setting task priority](#)
  - **child\_policy** (*string*): optional, default decision task-list, see [child workflows](#)

- `lambda_role` (*string*): optional, default IAM role for Lambda access, see [using Lambda tasks](#)

## Example

```
spec_type: test
name: spam
version: "1.0"
description: A workflow with spam, spam, eggs and spam.
registration:
  active: true
  task_timeout: 5
  execution_timeout: 3600
  task_list: coffee
  task_priority: 2
  child_policy: TERMINATE
  lambda_role: arn:aws:iam::spam:role/eggs
```

## 2.5 SWF decider tutorial

Running an SWF decider for a virtual AWS.

We'll use `moto`, a tool which mocks out SWF.

**Warning:** `moto` v1.3.16 is required to correctly mock SWF (however, unlike using AWS for real, task-polling returns instantly).

### 2.5.1 Set-up

Install `Moto`, `AWS CLI`, `PyYaml` and `seddy`

```
pip install moto[server,swf] pyyaml seddy
```

You are free to use whichever method you like to install AWS CLI, for example installing v1 via `pip` (`pip install awscli`) or using the Docker image (`docker pull amazon/aws-cli:latest`, then alias `aws='docker run --rm amazon/aws-cli:latest'`)

### Environment variables

To use `moto`, we need to point the AWS CLI and `seddy` to its server (which we'll start below)

```
export AWS_DEFAULT_REGION=us-east-1
export AWS_SWF_ENDPOINT_URL=http://localhost:5042/
```

## 2.5.2 Example

Create workflow definitions file

```
version: 1.0
workflows:
- spec_type: dag
  name: spam
  version: "1.0"
  description: A workflow with spam, spam, eggs and spam.
  registration:
    active: true
    task_timeout: 5
    execution_timeout: 3600
    task_list: coffee
  tasks:
    - id: foo
      type:
        name: spam-foo
        version: "0.3"
      input:
        type: workflow-input
        path: $.foo
      timeout: 10
      task_list: eggs
      priority: 1
    - id: bar
      type:
        name: spam-foo
        version: "0.4"
      input:
        type: workflow-input
        path: $.bar
      timeout: 10
      task_list: eggs
      dependencies:
        - foo
- spec_type: dag
  name: spam
  version: "1.1"
  description: A workflow with better spam, spam, eggs and spam.
  registration:
    active: true
    task_timeout: 5
    execution_timeout: 3600
    task_list: coffee
  tasks:
    - id: foo
      type:
        name: spam-foo
        version: "0.4"
      input:
        type: workflow-input
        path: $.foo
      timeout: 5
      task_list: eggs
      priority: 1
    - id: bar
```

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```
type:
  name: spam-foo
  version: "0.4"
input:
  type: workflow-input
  path: $.bar
timeout: 5
task_list: eggs
dependencies:
  - foo
```

---

Start the mock SWF server (in a separate terminal: don't forget env-vars)

```
moto_server swf -p5042
```

---

Register domain

```
aws --endpoint-url $AWS_SWF_ENDPOINT_URL swf register-domain \
  --name test-domain --workflow-execution-retention-period-in-days 2
```

---

Register defined workflows with SWF

```
seddy -v register workflows.yml test-domain
```

---

Register referenced activities with SWF

```
aws --endpoint-url $AWS_SWF_ENDPOINT_URL swf register-activity-type \
  --domain test-domain \
  --name spam-foo \
  --activity-version 0.3 \
  --default-task-start-to-close-timeout 20 \
  --default-task-schedule-to-start-timeout 600 \
  --default-task-schedule-to-close-timeout 620 \
  --default-task-heartbeat-timeout 20 \
  --default-task-list name=test-activity-list

aws --endpoint-url $AWS_SWF_ENDPOINT_URL swf register-activity-type \
  --domain test-domain \
  --name spam-foo \
  --activity-version 0.4 \
  --default-task-start-to-close-timeout 20 \
  --default-task-schedule-to-start-timeout 600 \
  --default-task-schedule-to-close-timeout 620 \
  --default-task-heartbeat-timeout 20 \
  --default-task-list name=test-activity-list
```

---

Start the decider (in a separate terminal: don't forget env-vars)

```
seddy -v decider workflows.yml test-domain test-list
```

### Start a workflow execution

```
aws --endpoint-url $AWS_SWF_ENDPOINT_URL swf start-workflow-execution \
  --domain test-domain \
  --workflow-id test-wf \
  --workflow-type name=spam,version=1.1 \
  --task-list name=test-list \
  --child-policy ABANDON \
  | python3 -c 'import sys, json; print(json.load(sys.stdin)["runId"])' \
  > /tmp/runid
```

### Pretend to be an activity worker

```
aws --endpoint-url $AWS_SWF_ENDPOINT_URL swf poll-for-activity-task \
  --domain test-domain --task-list name=eggs \
  | python3 -c 'import sys, json; print(json.load(sys.stdin)["taskToken"])' \
  > /tmp/tasktoken
aws --endpoint-url $AWS_SWF_ENDPOINT_URL swf respond-activity-task-completed \
  --task-token $(cat /tmp/tasktoken)

aws --endpoint-url $AWS_SWF_ENDPOINT_URL swf poll-for-activity-task \
  --domain test-domain --task-list name=eggs \
  | python3 -c 'import sys, json; print(json.load(sys.stdin)["taskToken"])' \
  > /tmp/tasktoken
aws --endpoint-url $AWS_SWF_ENDPOINT_URL swf respond-activity-task-completed \
  --task-token $(cat /tmp/tasktoken)
```

### Check execution status

```
aws --endpoint-url $AWS_SWF_ENDPOINT_URL describe-workflow-execution \
  --domain test-domain --execution workflowId=test-wf,runId=$(cat /tmp/runid)
```

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