

# Tibanna - CloudData @ Hyperspeed





read data from HMS or AWS cloud

Orchestra



AWS





move data through processing steps  
+ monitor / report on status

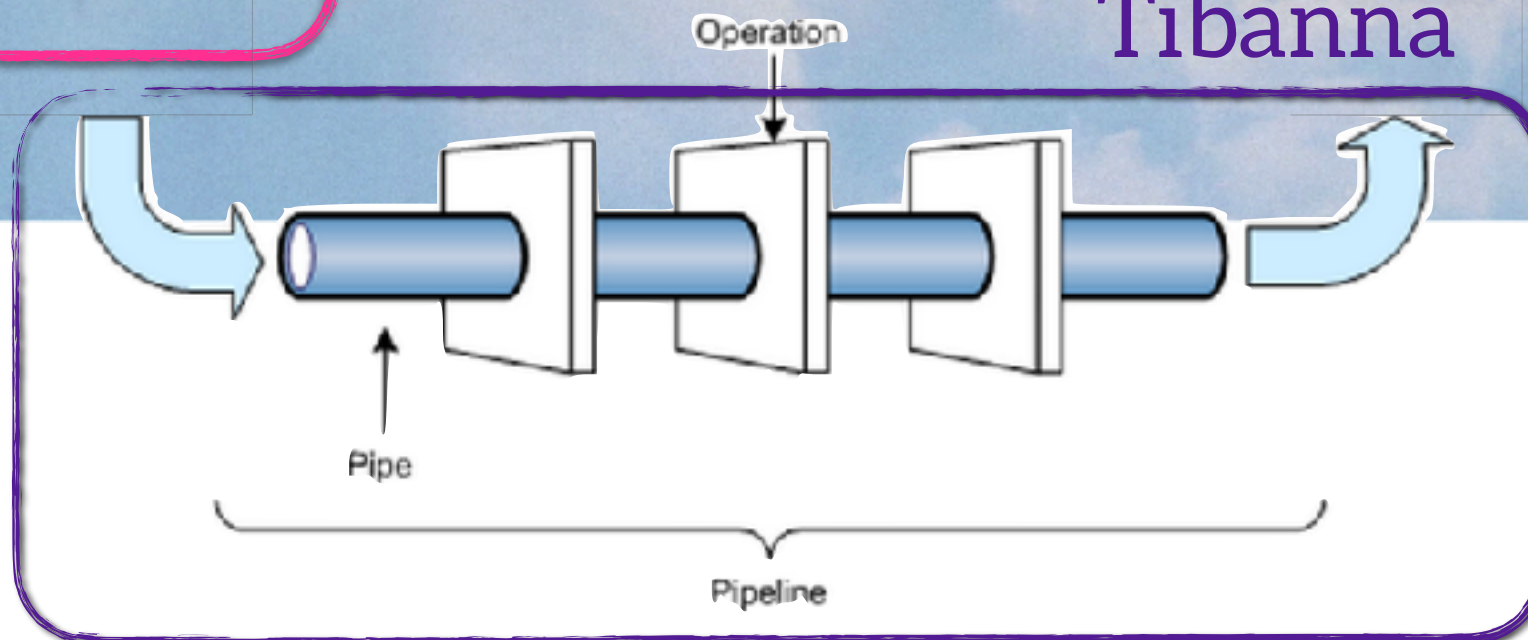
Raw Data

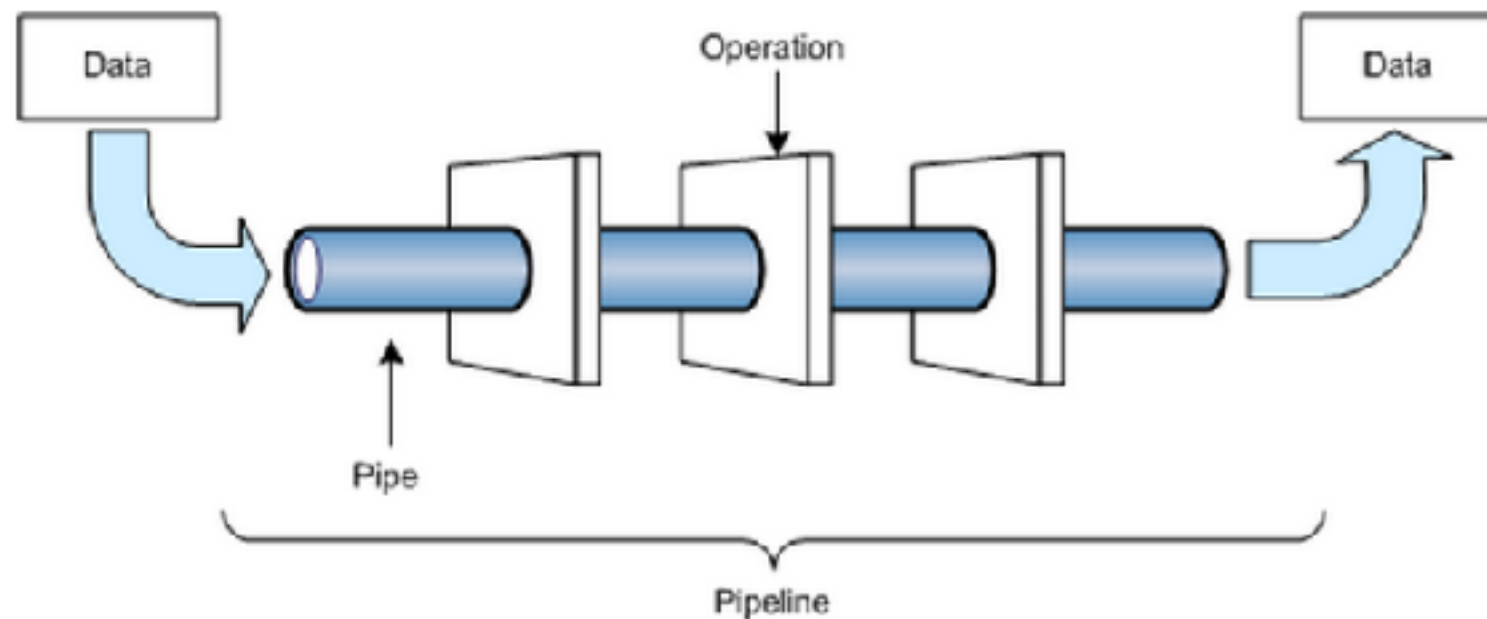


Processed Data

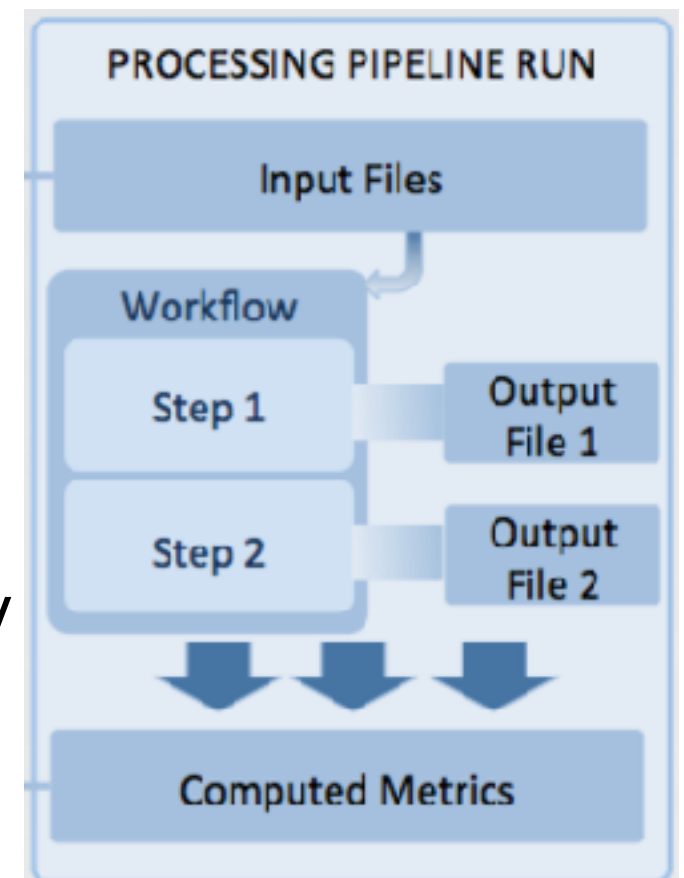


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- Raw data in from anywhere
- Each Step runs in separate env / container
- Store output files
- Run arbitrary reporting steps
- Each step added to shared reusable library



# Reporting / Tracking

Dashboard

## State Machines

Delete

Copy to New

Create a State Machine

Search for state machines

### State Machines (4)



run\_sbg\_workflow\_2

arn:aws:states:us-east-1:643366669028:state...

Running

0

Finished

666

Errors

264



run\_sbg\_workflow\_2-2

arn:aws:states:us-east-1:643366669028:state...

Running

0

Finished

3



run\_sbg\_workflow\_2-3

arn:aws:states:us-east-1:643366669028:state...

Running

0

Finished

28

### run\_sbg\_workflow\_2

On this page you can add one or more executions for this state machine

New execution

Stop execution



Search for executions

	Name	Status	Started	End Time
<input type="radio"/>	validate_4DNFIL5INRZ5 arn:aws:states:us-east-1:643366669028:execution...	Succeeded	Feb 8, 2017 3:28:28 PM	Feb 8, 2017 3:38:59 PM
<input type="radio"/>	700e6046-0407-446f-322f-4b55522703fa arn:aws:states:us-east-1:643366669028:execution...	Failed	Jan 20, 2017 7:37:52 AM	Jan 20, 2017 7:46:09 AM
<input type="radio"/>	validate_4DNFI0HR0R9P arn:aws:states:us-east-1:643366669028:execution...	Succeeded	Feb 8, 2017 3:28:31 PM	Feb 8, 2017 3:38:58 PM
<input type="radio"/>	testrun_20170303020908977196 arn:aws:states:us-east-1:643366669028:execution...	Aborted	Mar 2, 2017 9:08:10 PM	Mar 2, 2017 9:08:10 PM
<input type="radio"/>	validate_4DNFIVKQYAO arn:aws:states:us-east-1:643366669028:execution...	Succeeded	Feb 8, 2017 3:28:28 PM	Feb 8, 2017 3:38:57 PM
<input type="radio"/>	testrun_20170303013931081170 arn:aws:states:us-east-1:643366669028:execution...	Aborted	Mar 2, 2017 8:39:35 PM	Mar 2, 2017 8:39:35 PM
<input type="radio"/>	validate_4DNFIRS0H6DF arn:aws:states:us-east-1:643366669028:execution...	Succeeded	Feb 8, 2017 3:21:30 PM	Feb 8, 2017 3:36:54 PM



# Error Reporting

700e60f6-0407-4f6f-322f-4b85522703fa !

GraphCode

SuccessFailedCancelledIn progress

```
graph TD; Start((Start)) --> StartRunSbg[StartRunSbg]; StartRunSbg --> CheckImportSbg[CheckImportSbg]; CheckImportSbg --> RunTaskSbg[RunTaskSbg]; RunTaskSbg --> CheckTaskSbg[CheckTaskSbg]; CheckTaskSbg --> ExportFilesSbg[ExportFilesSbg]; ExportFilesSbg --> CheckExportSbg[CheckExportSbg]; CheckExportSbg --> End((End));
```

Execution Details

InfoInputOutput

```
error: UnhandledError
cause: {"stackTrace": ["/var/task/service.py", 15,
"handler", "sbg =
utils.create_sbg_workflow(**event.get('workflow'))"]
, ["/var/task/core/utils.py", 113,
"create_sbg_workflow", "token = get_sbg_keys()"],
["/var/task/core/utils.py", 45, "get_sbg_keys",
"return get_key('sbgkey')"],
["/var/task/core/utils.py", 57, "get_key",
"SSECustomerAlgorithm='AES256')"],
["/var/task/botocore/client.py", 159, "_api_call",
"return self._make_api_call(operation_name,
kwargs)], ["/var/task/botocore/client.py", 470,
"_make_api_call", "api_params, operation_model,
context=request_context)],
["/var/task/botocore/client.py", 523,
"_convert_to_request_dict", "api_params,
operation_model)],
["/var/task/botocore/validate.py", 270,
"serialize_to_request", "raise
ParamValidationError(report=report.generate_report())"], "errorType": "ParamValidationError",
```

Step Details

# Current

S3 Input only

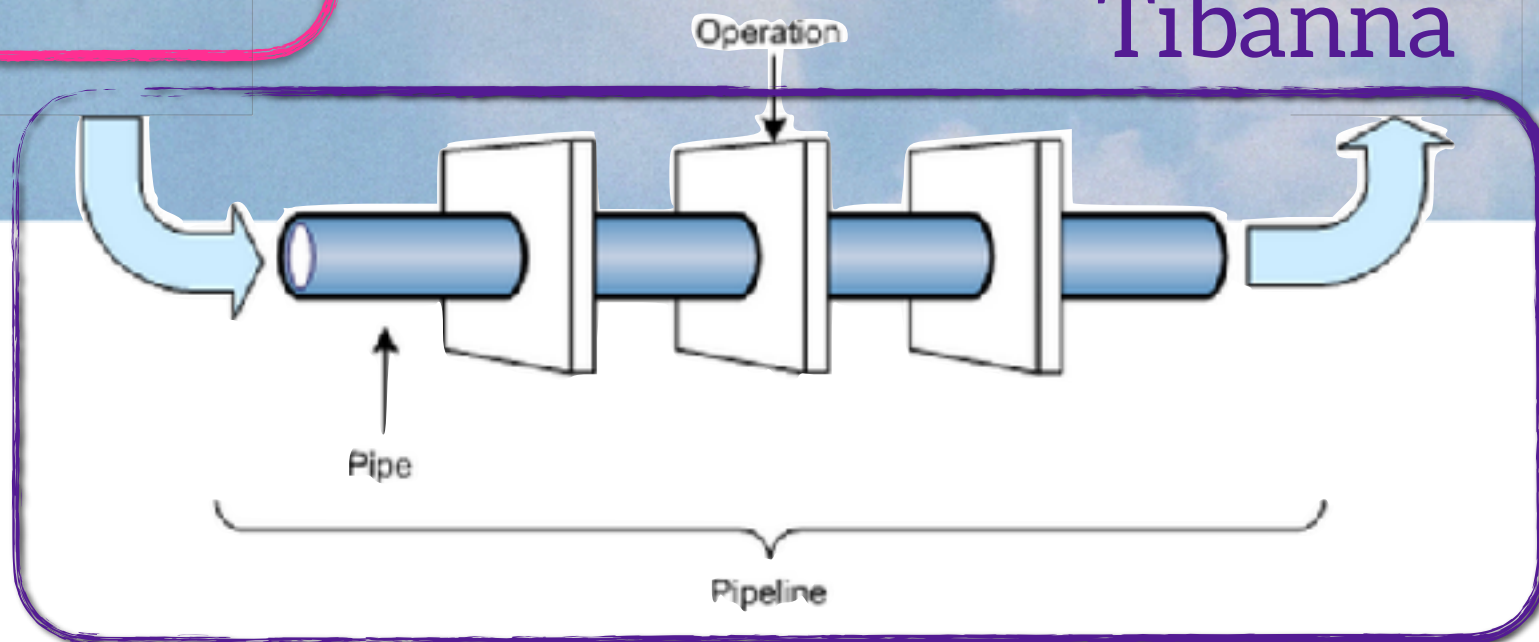


S3 Output



runs on  
proprietary  
backed  
call SBG

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# Desired

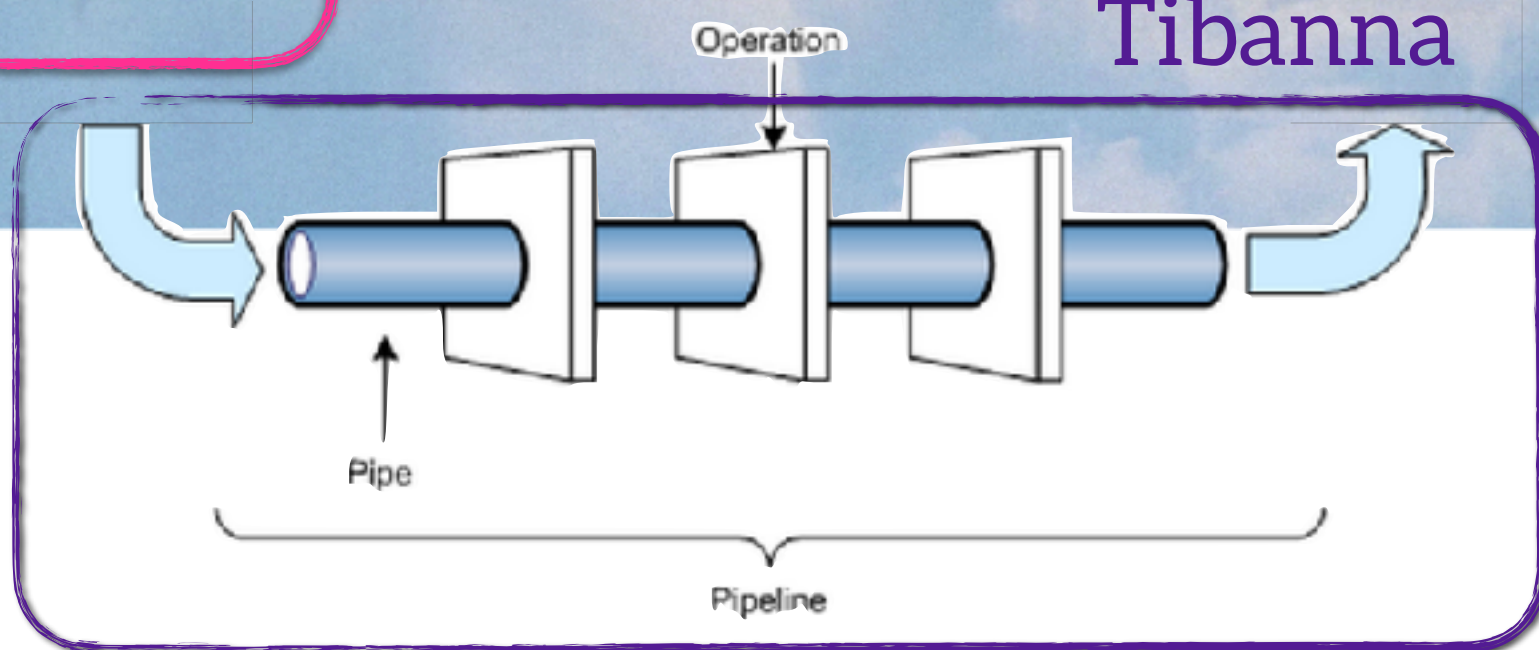
Output Anywhere

Input from  
Anywhere



Run on EC2  
+ run on  
orchestra

Tibanna





<https://github.com/hms-dbmi/tibanna>

# We need you

- Convert bash scripts to python running on lambda
- Get Data plus pipelines to run
- Convert pipelines / software installs to docker / CWL
- Test running stuff on pipelines
- Reporting Integrations? (Slack / phone notifications /etc..)
- Anything else to make it more awesome

