

Docker

Run a new container

tensorflow/serving:latest

Container name

A random name is generated if you do not provide one.

Ports

Enter "0" to assign randomly generated host ports.

Host port :8500 :8500/tcp

Host port :8501 :8501/tcp

Volumes

Host path /Users/hectorwilliams/Dev/n ... Container path /models/lunar_lander_model +

Environment variables

Variable MODEL_NAME Value lunar_lander_model +

Cancel Run

Google Cloud Service

Prediction Service

IAM Roles (Legacy Basic Roles)

| | |
|---------|--|
| Browser | Read access to browse hierarchy for project (folder, org, allow policies). No access to resources in project |
| Owner | Handles Billing Manages roles and permissions for project(s) Managing tag binding for Compute Engine |
| Editor | Modify data state for most Google Cloud services |
| Viewer | Read-Only, not affecting state of data |

IAM Roles

| | |
|--------|--|
| Admin | Handles Billing Manages roles and permissions for project(s) Managing tag binding for Compute Engine |
| Writer | Modify data state for most Google Cloud services |
| Reader | Read-Only, not affecting state of data |

Import Model

Prediction Service (deployment)

Welcome, Hectron

You're in Free Trial



0 out of \$300 credits used

Expires July 17, 2025

[What happens when trial ends?](#)

[Activate full account](#)

You're working on project [Test](#) ⓘ

Number: 869083780811 ID: flash-bazaar-233821



[Add people to your project](#)

[Set up budget alerts](#)

[Review product spend](#)

lunar_lander_model_bucket

| Location | Storage class | Public access | Protection |
|--|---------------|---------------|-------------|
| us (multiple regions in United States) | Standard | Not public | Soft Delete |

< Objects Configuration Permissions Protection Lifecycle Observability Inventory >

Overview

| | |
|--------------------------|---|
| Created | April 17, 2025 at 2:06:23 PM GMT-4 |
| Updated | April 17, 2025 at 2:06:23 PM GMT-4 |
| Hierarchical namespace | Not enabled |
| Location type | Multi-region |
| Location | us (multiple regions in United States) |
| Replication | Default |
| Cross-bucket replication | Not enabled |
| Default storage class | Standard |
| Requester Pays | <input checked="" type="radio"/> Off |
| Tags | None |
| Labels | None |
| Cloud Console URL | https://console.cloud.google.com/storage/browser/lunar_lander_model_bucket |
| gsutil URI | gs://lunar_lander_model_bucket |

Permissions

| | |
|--------------------------|----------------------------|
| Access control | Uniform |
| Public access prevention | Enabled via bucket setting |
| Public access status | Not public |

Import model

Name and region

Model settings

Import **Cancel**

You can import model artifacts that have been trained outside of Google Cloud. Once your model has been imported, you can serve it for online or batch predictions and compare it against your other Cloud AI models. [More info](#)

Import as new model
Creates a new model group and assigns the imported model as version 1

Import as new version
Imports the model as a version of an existing model

Name *

Description

Region ▼ ?

Encryption

Google-managed encryption key
Keys owned by Google

Cloud KMS key
Keys owned by customers

[▲ Show less](#)

Continue

Import model

Name and region

2 Model settings

Import Cancel

- Import model artifacts into a new pre-built container
View the list of [supported runtimes](#) including TensorFlow, scikit-learn and XGBoost versions
- Import an existing custom container
Build a custom Docker container. Must be stored in [Artifact Registry](#)

Pre-built container settings

Model framework *

TensorFlow

Model framework version *

gs:// Model artifact location (Cloud storage path) *

Browse

Path to the Cloud Storage directory where the exported model file is stored (not the path to the model file itself). The model name must be one of: saved_model.pb or saved_model.pbtxt

Use optimized TensorFlow runtime

Automatically optimize models for faster and cheaper inference. [Learn more](#)

Optimization flags

Precompile models

Pre-compiles the model graph for better performance. Works best for requests with large batch sizes. Latency in the first prediction request may be higher than expected. [Learn more](#)

Model compression

Faster inference with slight impact on model precision in some cases. [Learn more](#)

TFRT for CPU models

Uses the new TensorFlow runtime (TFRT) for CPU models, which efficiently uses multithreaded host CPUs and is optimized for low-level efficiency. [Learn more](#)

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[Import](#) [Cancel](#)

lunar_lander_model_bucket

| Location | Storage class | Public access | Protection |
|--|--|-----------------------------|----------------------------|
| us (multiple regions in United States) | Standard | Not public | Soft Delete |
| Objects | Configuration | Permissions | Protection |
| Lifecycle | Observability | Inventory | Report |
| Overview | | | |
| Created | April 17, 2025 at 2:06:23 PM GMT-4 | | |
| Updated | April 17, 2025 at 2:06:23 PM GMT-4 | | |
| Hierarchical namespace | Not enabled | | |
| Location type | Multi-region | | |
| Location | us (multiple regions in United States) | | |
| Replication | Default Edit | | |
| Cross-bucket replication | Not enabled Edit | | |
| Default storage class | Standard Edit | | |
| Requester Pays | <input checked="" type="radio"/> Off | | |
| Tags | None Edit | | |
| Labels | None Edit | | |
| Cloud Console URL | https://console.cloud.google.com/storage/browser/lunar_lander_model_bucket Edit | | |
| gsutil URI | gs://lunar_lander_model_bucket Edit | | |
| Permissions | | | |
| Access control | Uniform Edit | | |
| Public access prevention ? | Enabled via bucket setting | | |
| Public access status ? | Not public | | |

Import model

Name and region

2 Model settings

Import Cancel

Pre-built container settings

Model framework * TensorFlow

Model framework version *

! Model framework version is required

Model artifact location (Cloud storage path) * **Browse** 

Path to the Cloud Storage directory where the exported model file is stored (not the path to the model file itself). The model name must be one of: saved_model.pb or saved_model.pbtxt

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| lunar_lander_model_bucket | | | | |
|--|--|--|----------------------------|---------------------------|
| Location | Storage class | Public access | Protection | |
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| Objects | Configuration | Permissions | Protection | Lifecycle |
| Overview | Created | April 17, 2025 at 2:06:23 PM GMT-4 | | |
| | Updated | April 17, 2025 at 2:06:23 PM GMT-4 | | |
| | Hierarchical namespace | Not enabled | | |
| | Location type | Multi-region | | |
| | Location | us (multiple regions in United States) | | |
| | Replication | Default  | | |
| | Cross-bucket replication | Not enabled  | | |
| | Default storage class | Standard  | | |
| | Requester Pays | Off  | | |
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| | Labels | None  | | |
| | Cloud Console URL | https://console.cloud.google.com/storage/browser/lunar_lander_model_bucket  | | |
| | gsutil URI | gs://lunar_lander_model_bucket  | | |
| Permissions | Access control | Uniform  | | |
| | Public access prevention | Enabled via bucket setting | | |
| | Public access status | Not public | | |

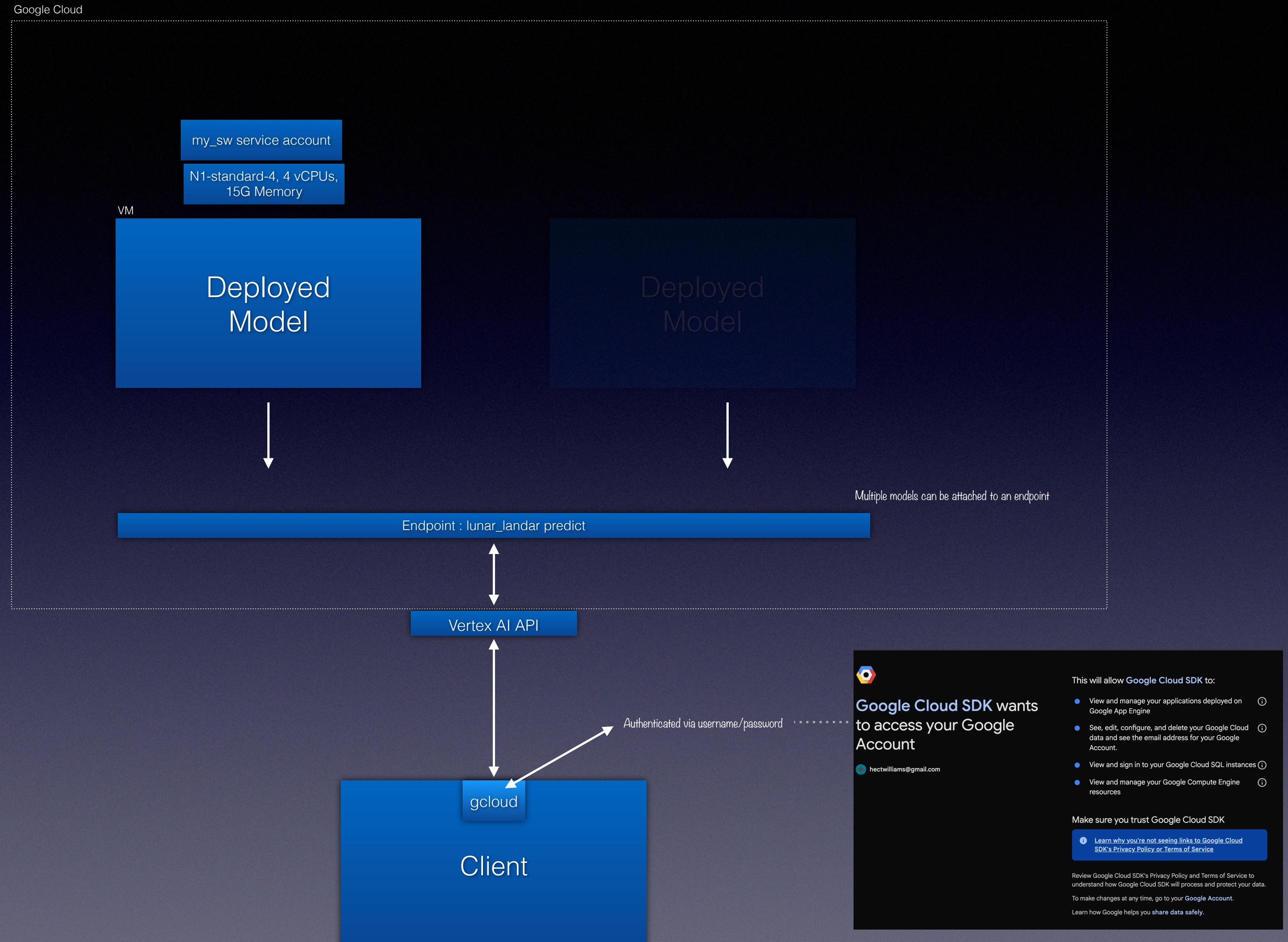
Pip install

```
google-cloud-storage
```

```
google-cloud-aiplatform
```

```
Install gcloud
```

```
tar -vxf Downloads/google-cloud-cli-darwin-x86_64.tar.gz --directory ./
```



Google CLI

Request

```
hectorwilliams@Hectors-Air ~ % ./google-cloud-sdk/bin/gcloud ai endpoints predict 1941215266629222400 --region=us-central1 --json-request=request.json
```

Using endpoint [https://us-central1-prediction-aiplatform.googleapis.com/]

Response

```
[[0.312848389, 0.236094132, 0.21771571, 0.233341753]]
```

CURL

Request

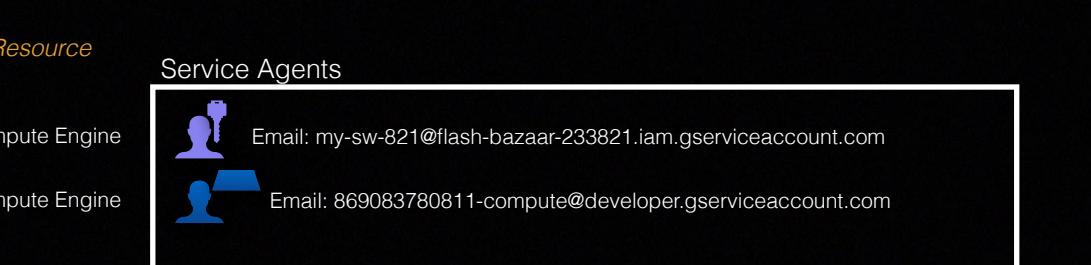
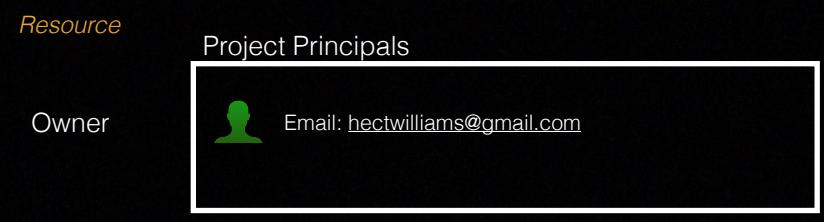
```
% curl \  
-X POST \  
-H "Authorization: Bearer $(./google-cloud-sdk/bin/gcloud auth print-access-token)" \  
-H "Content-Type: application/json" \  
"https://us-central1-aiplatform.googleapis.com/v1/projects/${PROJECT_ID}/locations/us-central1/endpoints/${ENDPOINT_ID}:predict" \  
-d "@${INPUT_DATA_FILE}"
```

Response

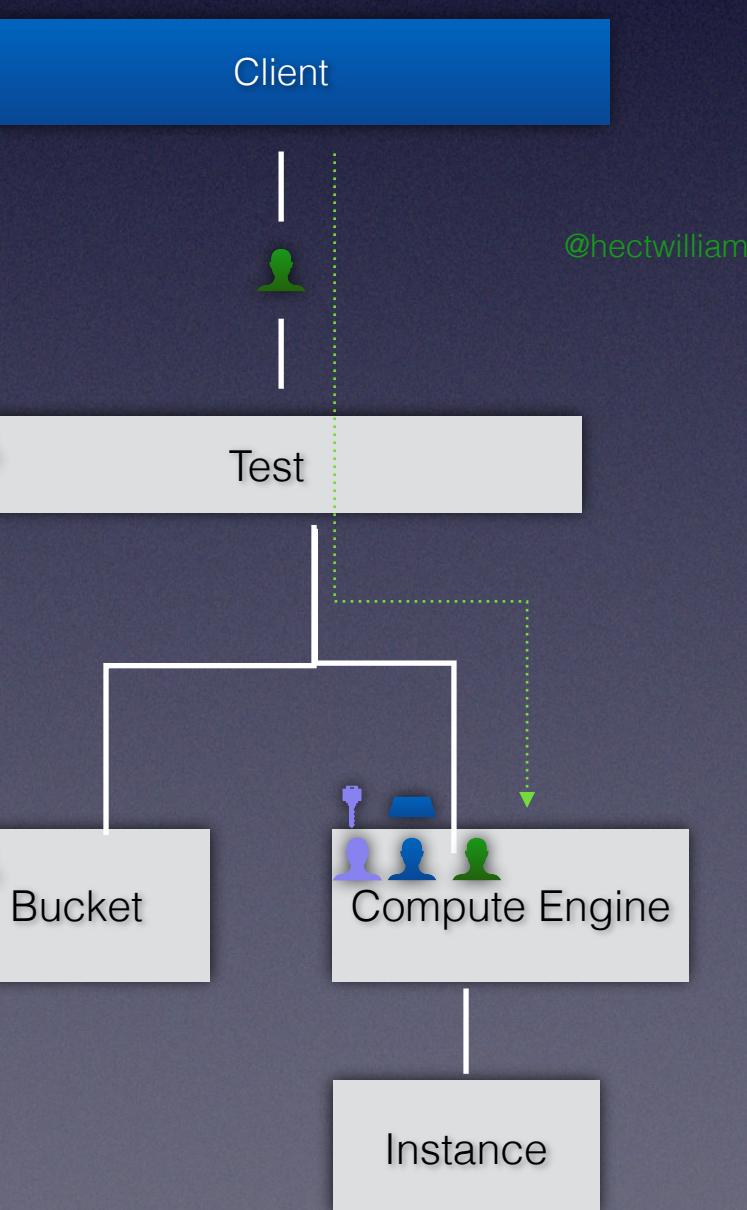
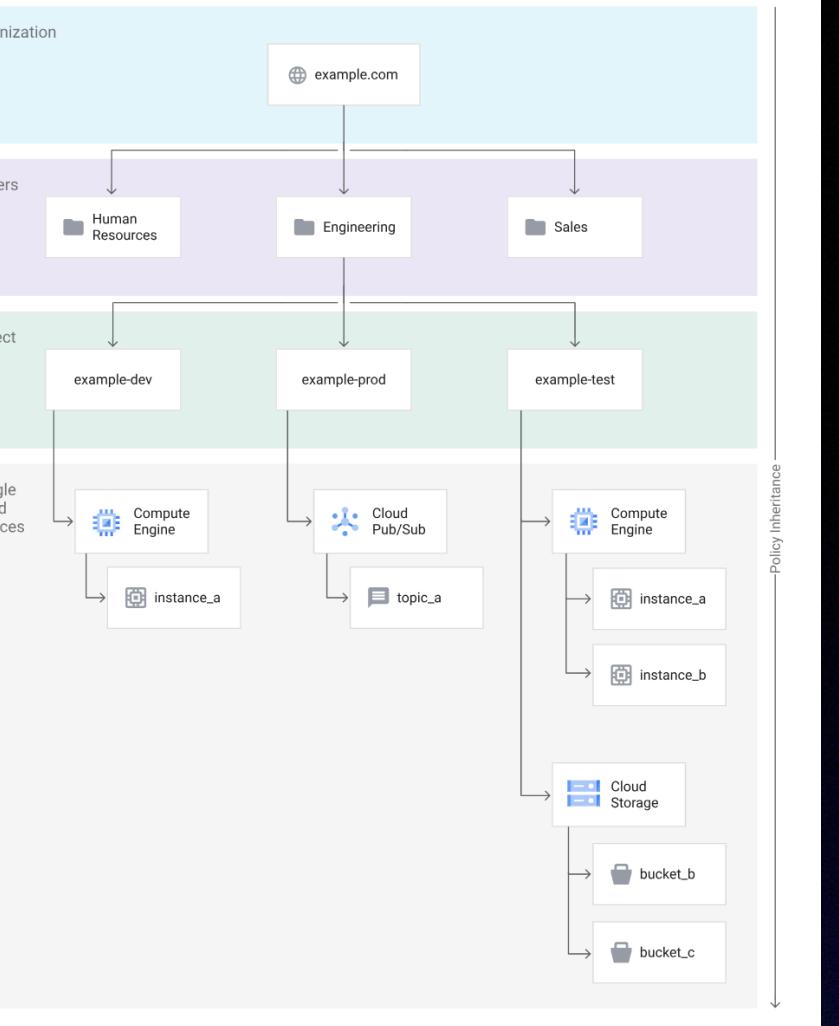
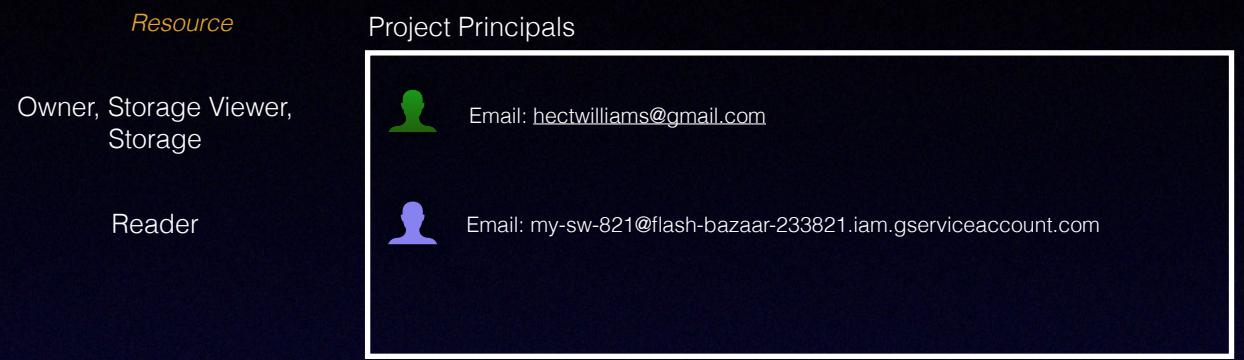
```
{  
  "predictions": [  
    [  
      0.312848389,  
      0.236094132,  
      0.21771571,  
      0.233341753  
    ]  
  ],  
  "deployedModelId": "8489429333616623616",  
  "model": "projects/869083780811/locations/us-central1/models/814655652809932800",  
  "modelDisplayName": "lunar_lander_model",  
  "modelVersionId": "1"  
}
```

request.json

```
{ "instances": [[ 0.30, 0.20, 0.20, 0.10, 0.20, 0.10, 0.20, 0.110]] }
```



Keys
Processes - (Resource Performs hidden processes)



```
from google.cloud import aiplatform
import os

PROJECT_ID = '869083780811'
ENDPOINT_ID = '1941215266629222400'
LOCATION_ID = 'us-central1'

os.environ['GOOGLE_APPLICATION_CREDENTIALS'] = os.path.join(os.getcwd(), 'cred.json')

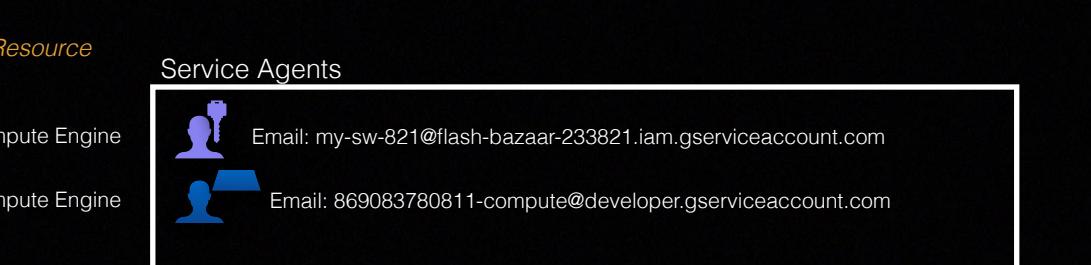
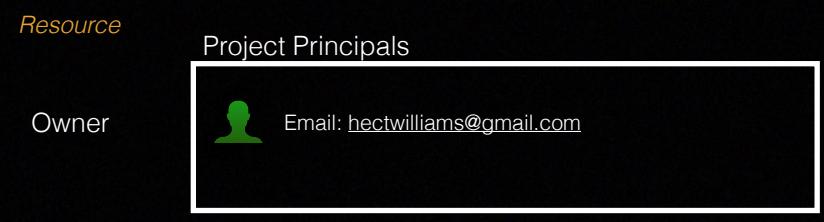
def endpoint_predict_sample( project: str, location: str, instances: list, endpoint: str):
    aiplatform.init(project=project, location=location, staging_bucket='gs://my_staging_bucket')
    endpoint = aiplatform.Endpoint(endpoint)

    prediction = endpoint.predict(instances=instances)
    print(prediction)
    return prediction

Request
instances = [[ 0.30, 0.20, 0.20, 0.10, 0.20, 0.10, 0.20, 0.110], [0.30, 0.20, 0.20, 0.10, 0.20, 0.10, 0.20, 0.110]]

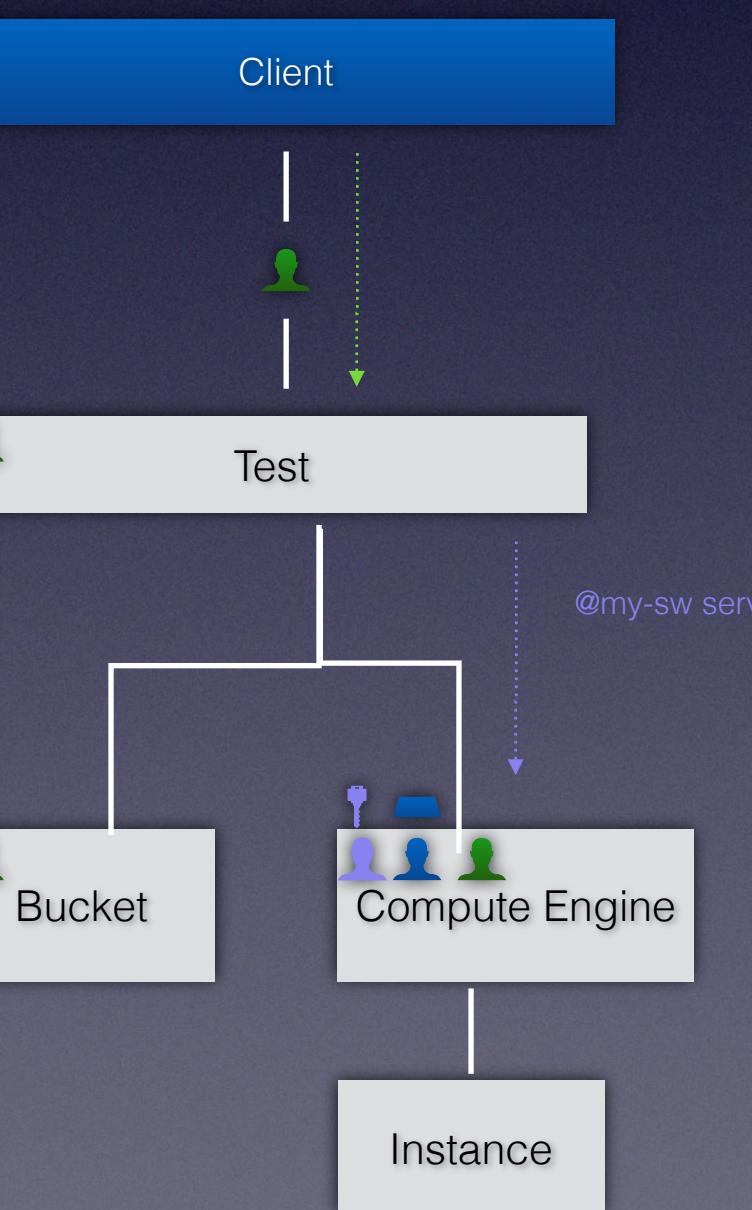
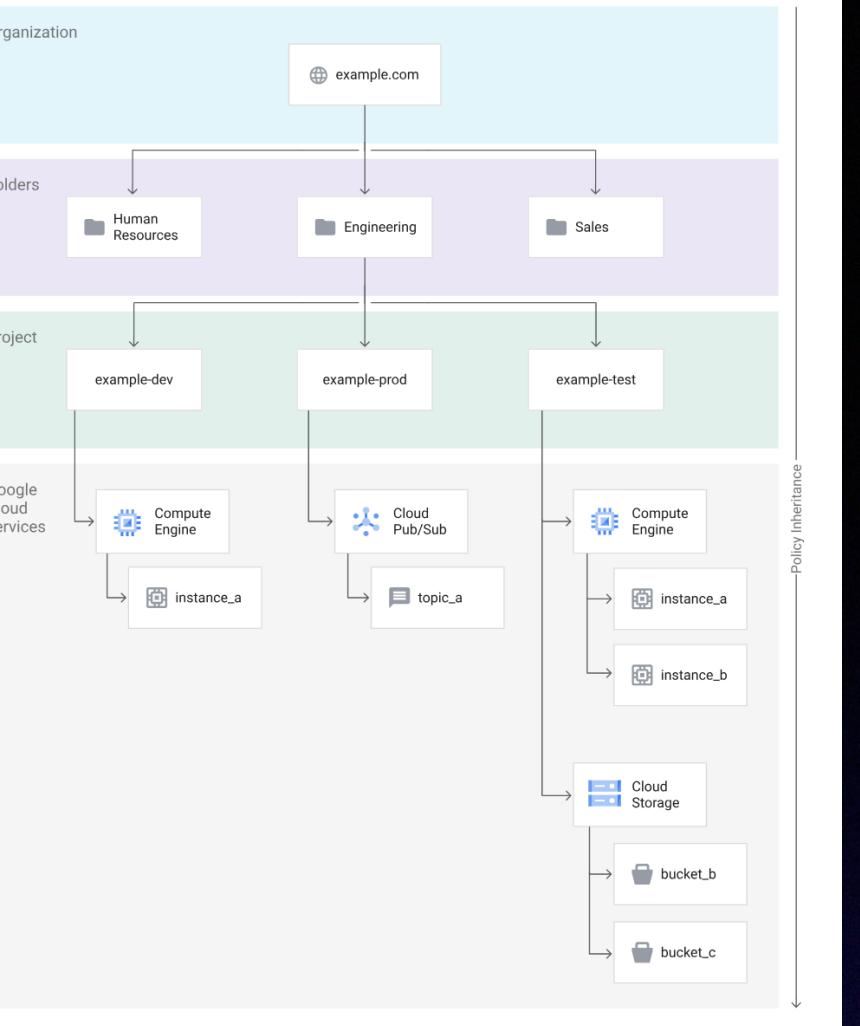
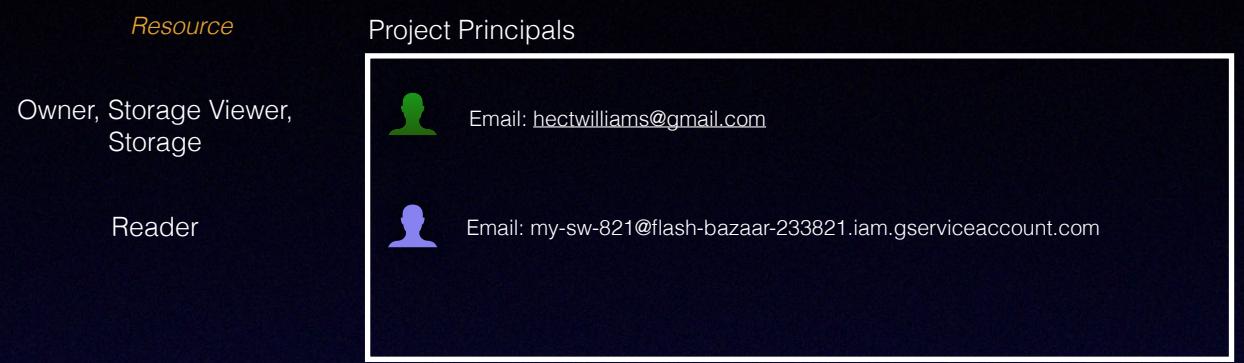
if __name__ == "__main__":
    ret = endpoint_predict_sample(project=PROJECT_ID, location= LOCATION_ID, instances=instances, endpoint=ENDPOINT_ID)
    print(ret)

Response
Prediction(predictions=[[0.312848389, 0.236094147, 0.21771571, 0.233341753], [0.312848389, 0.236094147, 0.21771571, 0.233341753]], deployed_model_id='8489429333616623616', metadata=None, model_version_id='1', model_resource_name='projects/869083780811/locations/us-central1/models/814655652809932800', explanations=None)
Prediction(predictions=[[0.312848389, 0.236094147, 0.21771571, 0.233341753], [0.312848389, 0.236094147, 0.21771571, 0.233341753]], deployed_model_id='8489429333616623616', metadata=None, model_version_id='1', model_resource_name='projects/869083780811/locations/us-central1/models/814655652809932800', explanations=None)
```



Keys

Processes - (Resource Performs hidden processes)



Resource

Bucket Principals

Owner
Email: hectwilliams@gmail.com

Compute Engine Service Agent
Email: service-869083780811@compute-system.iam.gserviceaccount.com

AI Platform Custom Code Service Agent
Email: service-869083780811@gcp-sa-aiplatform-cc.iam.gserviceaccount.com

AI Platform Service Agent
Email: service-869083780811@gcp-sa-aiplatform.iam.gserviceaccount.com

Service Agents

Email: service-869083780811@compute-system.iam.gserviceaccount.com

Email: service-869083780811@gcp-sa-aiplatform-cc.iam.gserviceaccount.com

Email: service-869083780811@gcp-sa-aiplatform.iam.gserviceaccount.com

Processes - (Resource Performs hidden processes)

GET Request

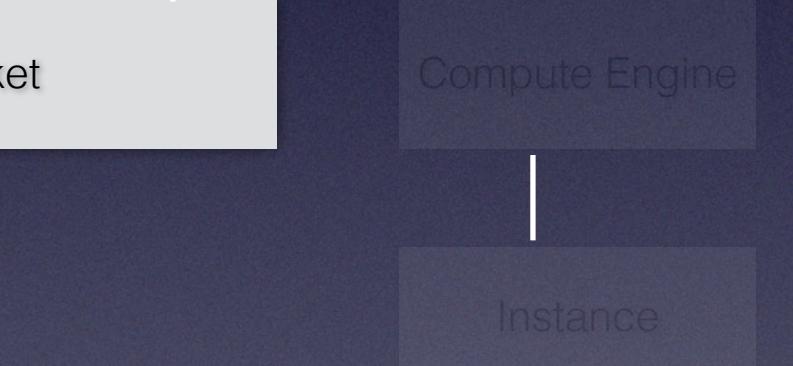
```
hectorwilliams@Hectors-Air ~ % curl \
-X GET \
-H "Authorization: Bearer $(./google-cloud-sdk/bin/gcloud auth print-access-token)" \
-H "Content-Type: application/json" \
"https://storage.googleapis.com/storage/v1/b/lunar_lander_model_bucket/iam"
```

Response

```
{
  "kind": "storage#policy",
  "resourceId": "projects/_/buckets/lunar_lander_model_bucket",
  "version": 1,
  "etag": "CAY=",
  "bindings": [
    {
      "role": "roles/storage.legacyBucketOwner",
      "members": [
        "projectEditor:flash-bazaar-233821",
        "projectOwner:flash-bazaar-233821"
      ]
    },
    {
      "role": "roles/storage.legacyBucketReader",
      "members": [
        "projectViewer:flash-bazaar-233821"
      ]
    },
    {
      "role": "roles/storage.legacyObjectOwner",
      "members": [
        "projectEditor:flash-bazaar-233821",
        "projectOwner:flash-bazaar-233821"
      ]
    },
    {
      "role": "roles/storage.legacyObjectReader",
      "members": [
        "projectViewer:flash-bazaar-233821"
      ]
    }
  ]
}
```

Client

Test



New endpoint

Define your endpoint

- Model settings
- Model monitoring

[Create](#) [Cancel](#)

Endpoint name * [?](#)

Location

Region [?](#)

Access

Determines how your endpoint can be accessed. By default, endpoints are available for prediction serving through a REST API. Endpoint access can't be changed after the endpoint is created.

Standard
Makes the endpoint available for prediction serving through a REST API. AutoML and custom-trained models can be added to standard endpoints.

Private
Create a private connection to this endpoint. Only custom-trained and AutoML tabular models can be added to private endpoints. [Learn more](#)

Network

A dedicated endpoint is a faster, more stable endpoint with support for larger payload sizes and longer request timeouts. [Learn more](#)

Enable dedicated DNS

New endpoint

Define your endpoint

- Model settings
- Model monitoring

Create Cancel

Once scaling settings are set, they can't be changed unless you redeploy the model. [Pricing guide](#)

Minimum number of compute nodes *

1

Default is 1. If set to 1 or more, then compute resources will continuously run even without traffic demand. This can increase cost but avoid dropped requests due to node initialization.

Maximum number of compute nodes (optional)

Enter a number equal to or greater than the minimum nodes. Can reduce costs but may cause reliability issues for high traffic.

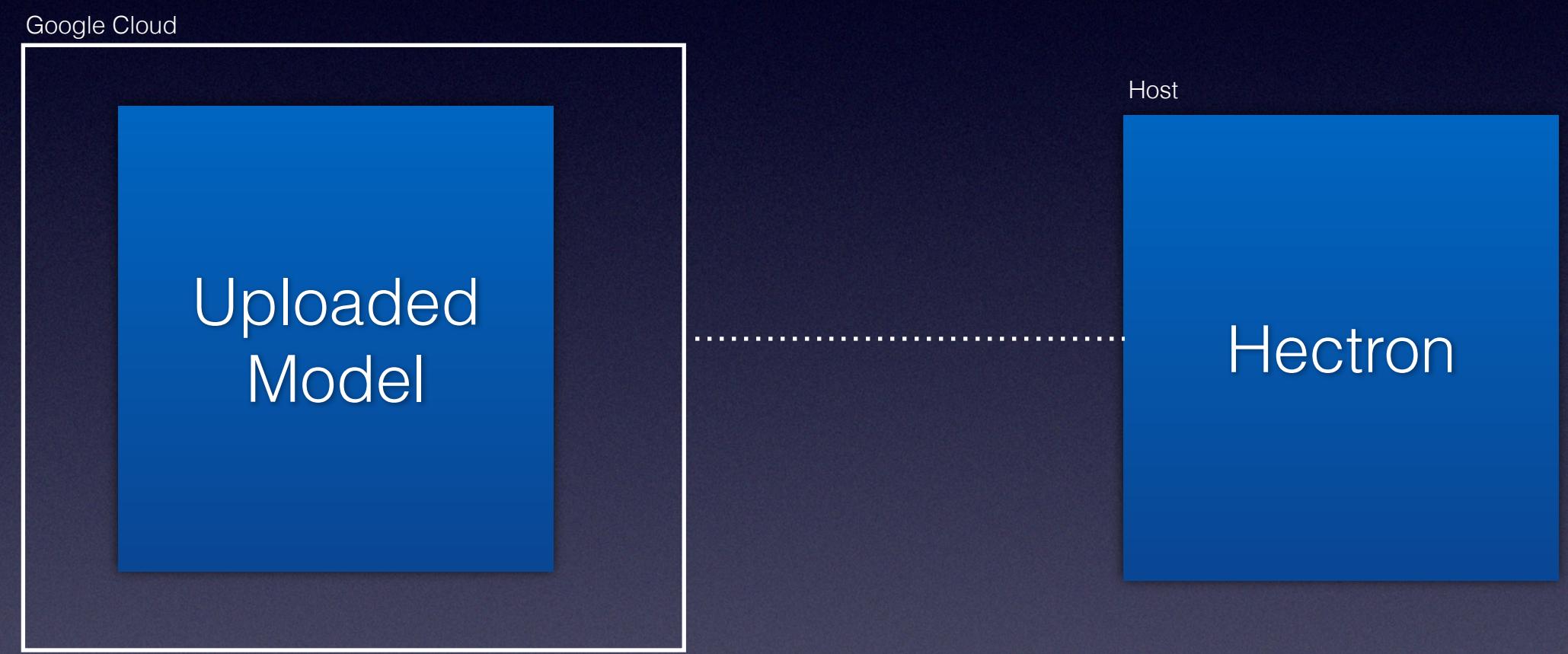
Advanced scaling options

Filter Type to filter

| Region | Type | Instance Type | Description |
|--------|-------------|----------------|-------------------------|
| R | Standard | n1-standard-2 | 2 vCPUs, 7.5 GiB memory |
| R | High-memory | n1-standard-4 | 4 vCPUs, 15 GiB memory |
| R | High-cpu | n1-standard-8 | 8 vCPUs, 30 GiB memory |
| A | High-gpu | n1-standard-16 | 16 vCPUs, 60 GiB memory |
| A | Mega-gpu | | |
| A | Ultra-gpu | | |

Clear selection

Query a prediction Model (Tensorflow model)



Query a prediction Model

```
#!/usr/bin/env python3

"""
Send an online prediction request to a shared public endpoint
"""

from google.cloud import aiplatform
import os

PROJECT_ID = '869083780811'
ENDPOINT_ID = '1941215266629222400'
ENDPOINT_ID2 = '8611890739695058944'
LOCATION_ID = 'us-central1'
os.environ['GOOGLE_APPLICATION_CREDENTIALS'] = os.path.join(os.getcwd(), 'cred.json')

def endpoint_predict_sample( project: str, location: str, instances: list, endpoint: str):
    aiplatform.init(project=project, location=location, staging_bucket='gs://my_staging_bucket')
    endpoint = aiplatform.Endpoint(endpoint)
    prediction = endpoint.predict(instances=instances)
    return prediction

instances = [
    [ 0.30, 0.20, 0.20, 0.10, 0.20, 0.10, 0.20, 0.110],
    [-1.371715 , 0.58048093, 0.14552322, 0.30510637, 1.4215977 ,0.57935536, -0.30329934, 1.4869808 ],
    [ 1.8956385 , -0.45161435, 0.46339658, -0.46701705, 0.24996527,-0.8164176 , 1.0037286 , 1.355299 ]
]

if __name__ == "__main__":
    ret = endpoint_predict_sample(project=PROJECT_ID, location= LOCATION_ID, instances=instances, endpoint=ENDPOINT_ID2)
    print(ret)

"""
Google Cloud Model

Model ID:
814655652809932800

Name:
lunar_lander_model

Version:
1

ENDPOINT_ID:
1941215266629222400

SDK Output:
Prediction(predictions=[[0.312848359, 0.236094132, 0.217715696, 0.233341739], [0.414523602, 0.112857334, 0.306751847, 0.16586718], [0.319322735, 0.398763537, 0.159842864, 0.122070901]], deployed_model_id='8489429333616623616', metadata=None, model_version_id='1', model_resource_name='projects/869083780811/locations/us-central1/models/814655652809932800', explanations=None)

"""

"""
Google Cloud Model

Model ID:
814655652809932800

Name:
lunar_lander_model

Version:
6

ENDPOINT_ID2:
8611890739695058944

SDK Output:
Prediction(predictions=[[0.262676597, 0.271419078, 0.255823731, 0.210080639], [0.269151241, 0.29415518, 0.262208253, 0.174485326], [0.26882872, 0.209912121, 0.406539112, 0.114720076]], deployed_model_id='21434649330047872', metadata=None, model_version_id='6', model_resource_name='projects/869083780811/locations/us-central1/models/814655652809932800', explanations=None)

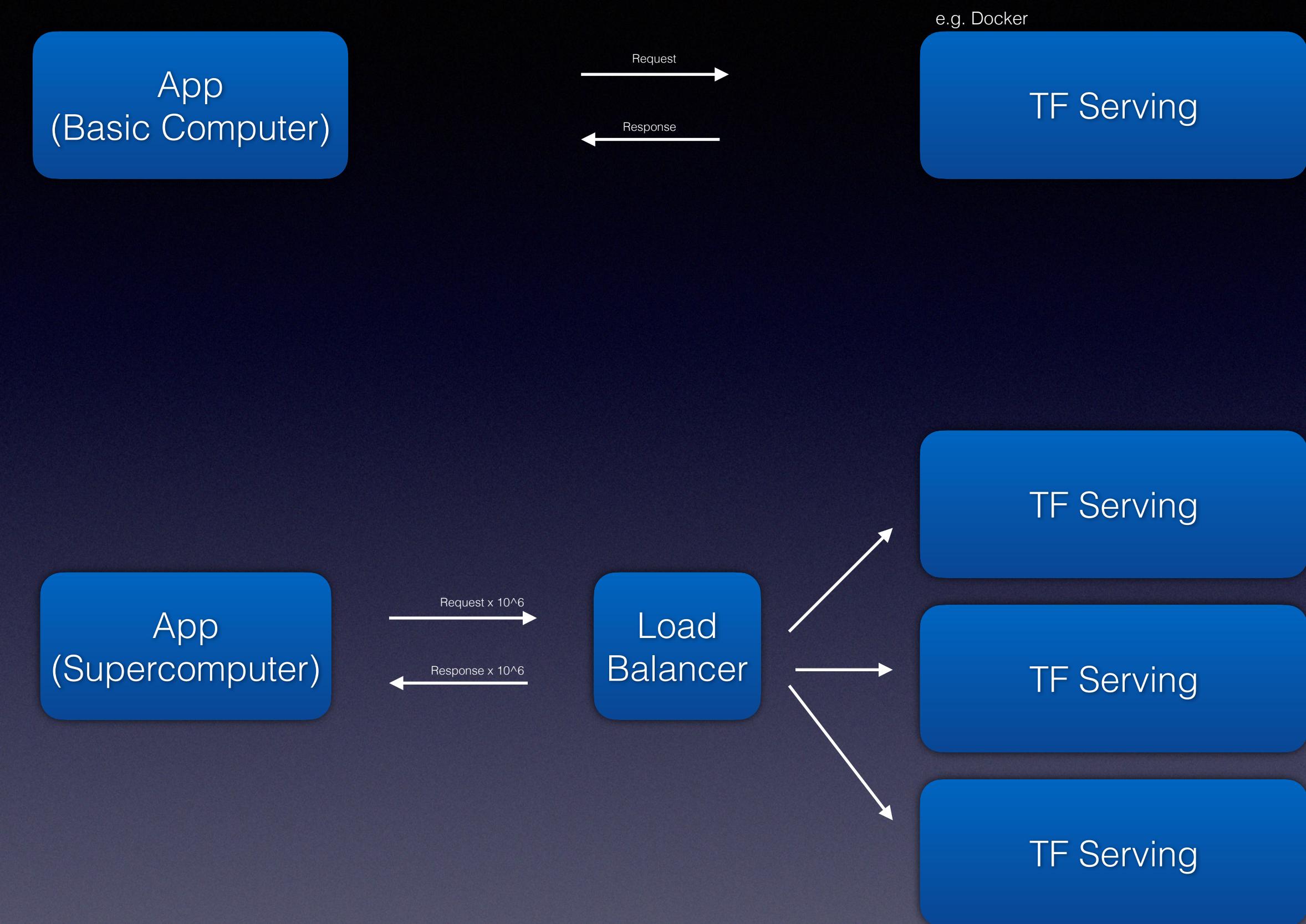
"""


```

Saved model exported using model.export(<path>), not tf.saved_model.save()

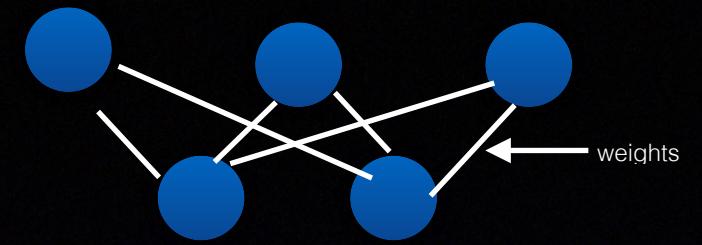
Deploying

TF Serving Containers

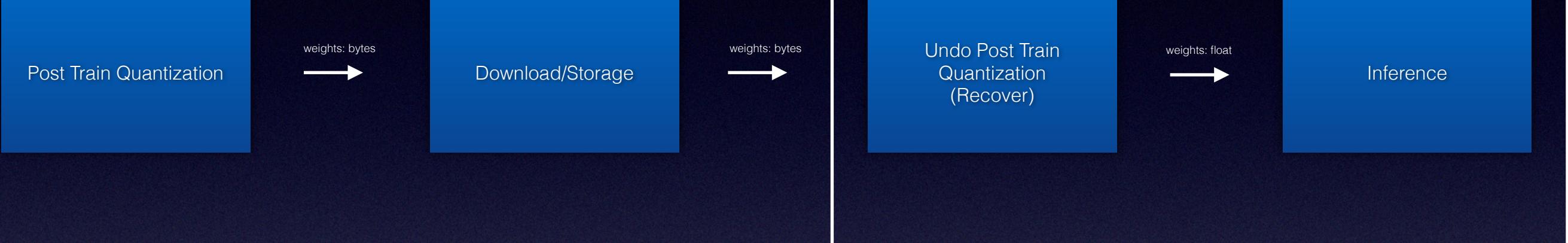


Load Balancer and multiple Servings distributed across machines are required to handle large request loads

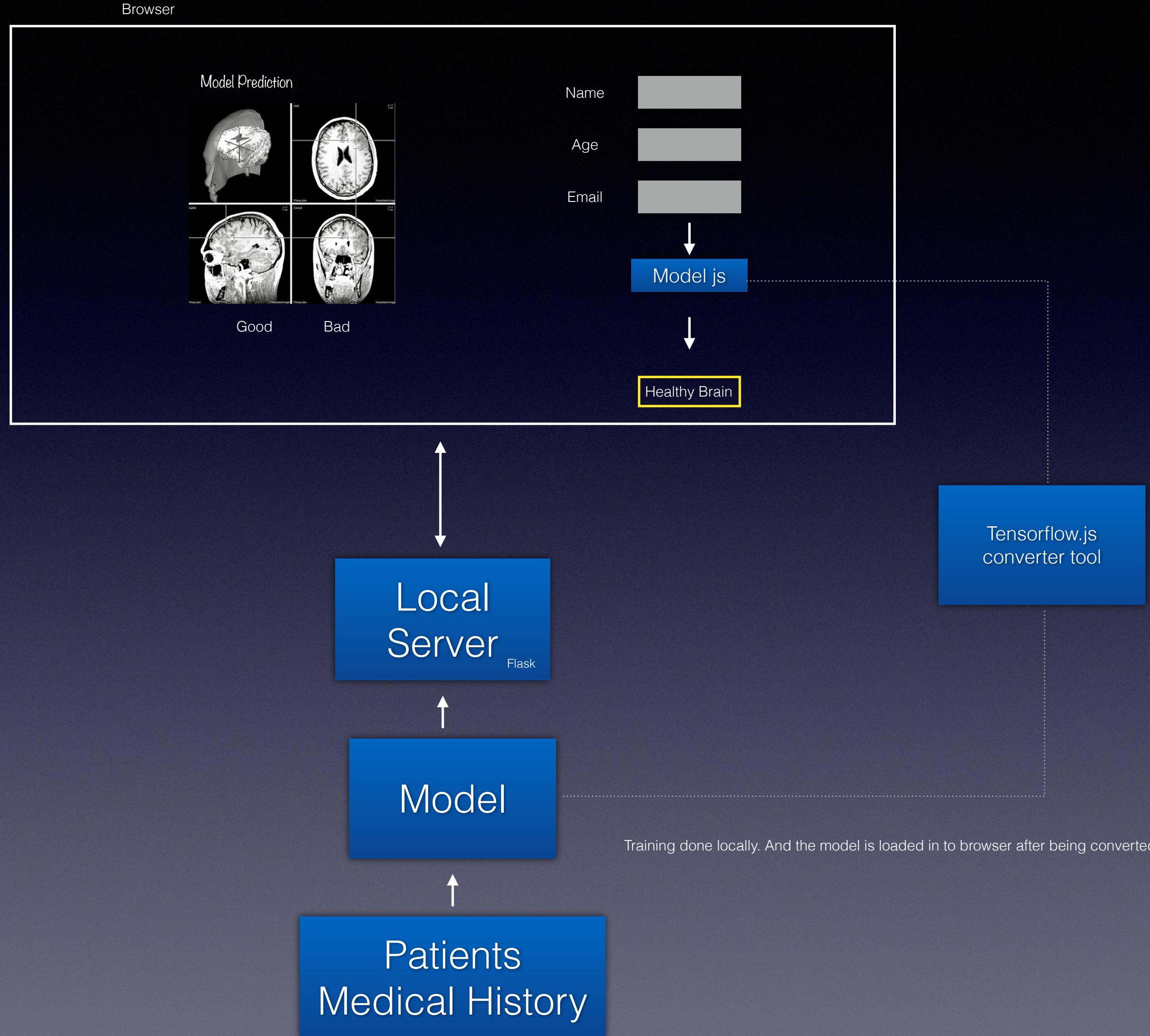
Post-Training Quantization



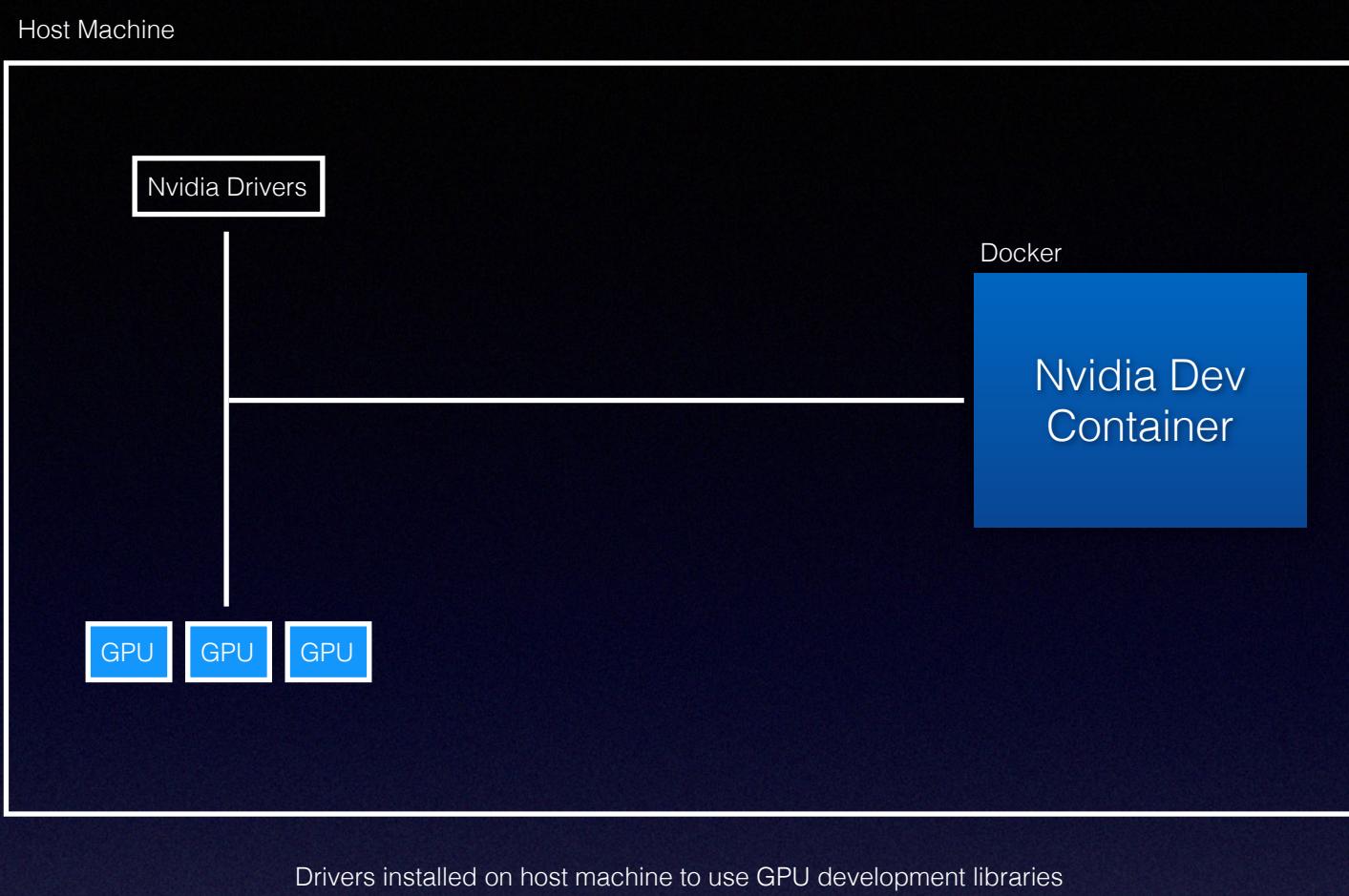
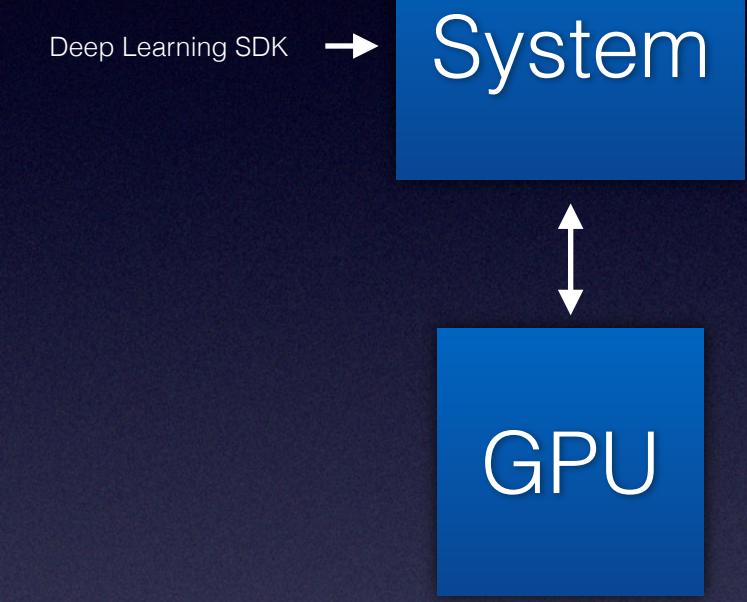
$$\begin{bmatrix} w_{11} & w_{12} & w_{13} \\ w_{21} & w_{22} & w_{23} \end{bmatrix}$$



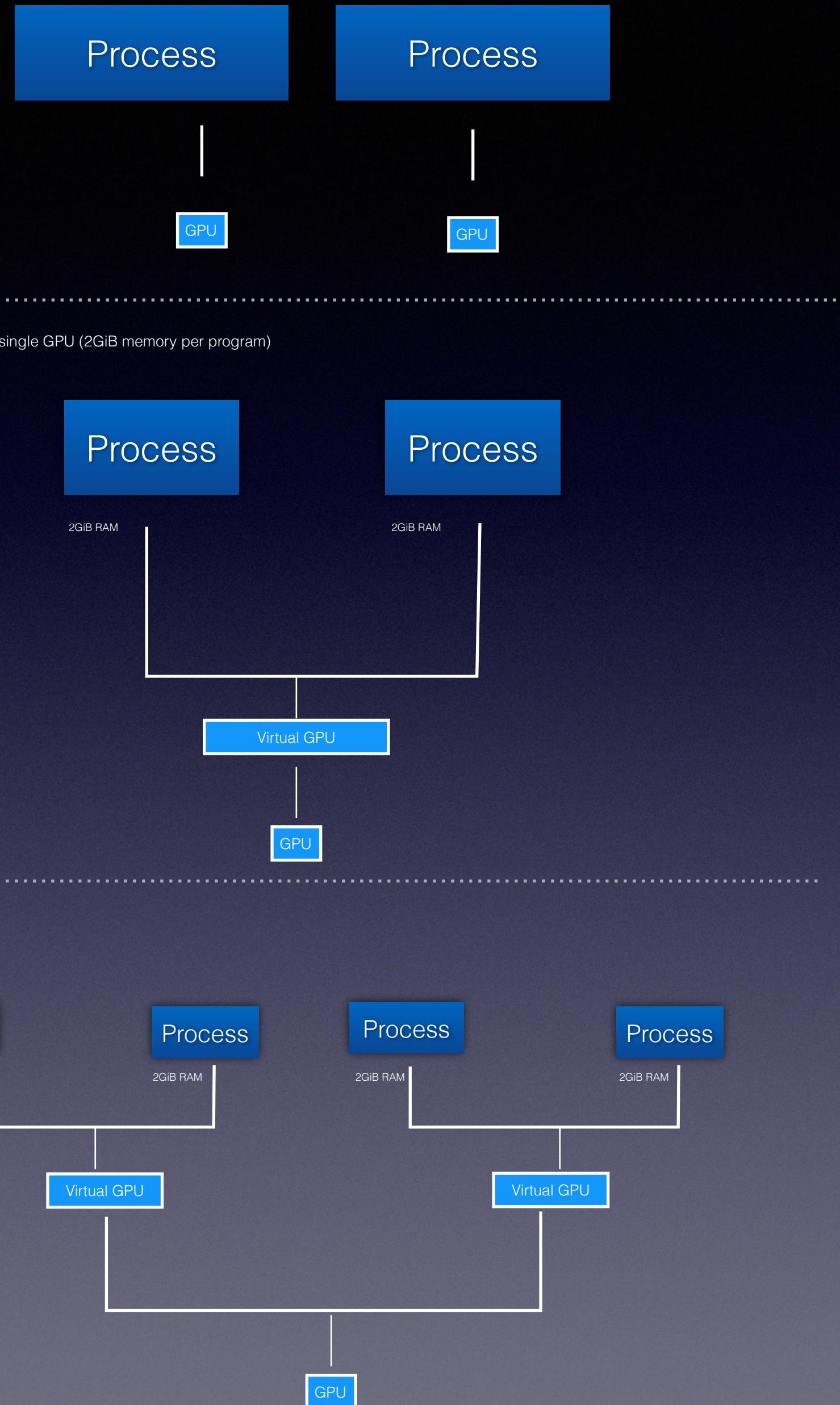
Browser Tensorflow



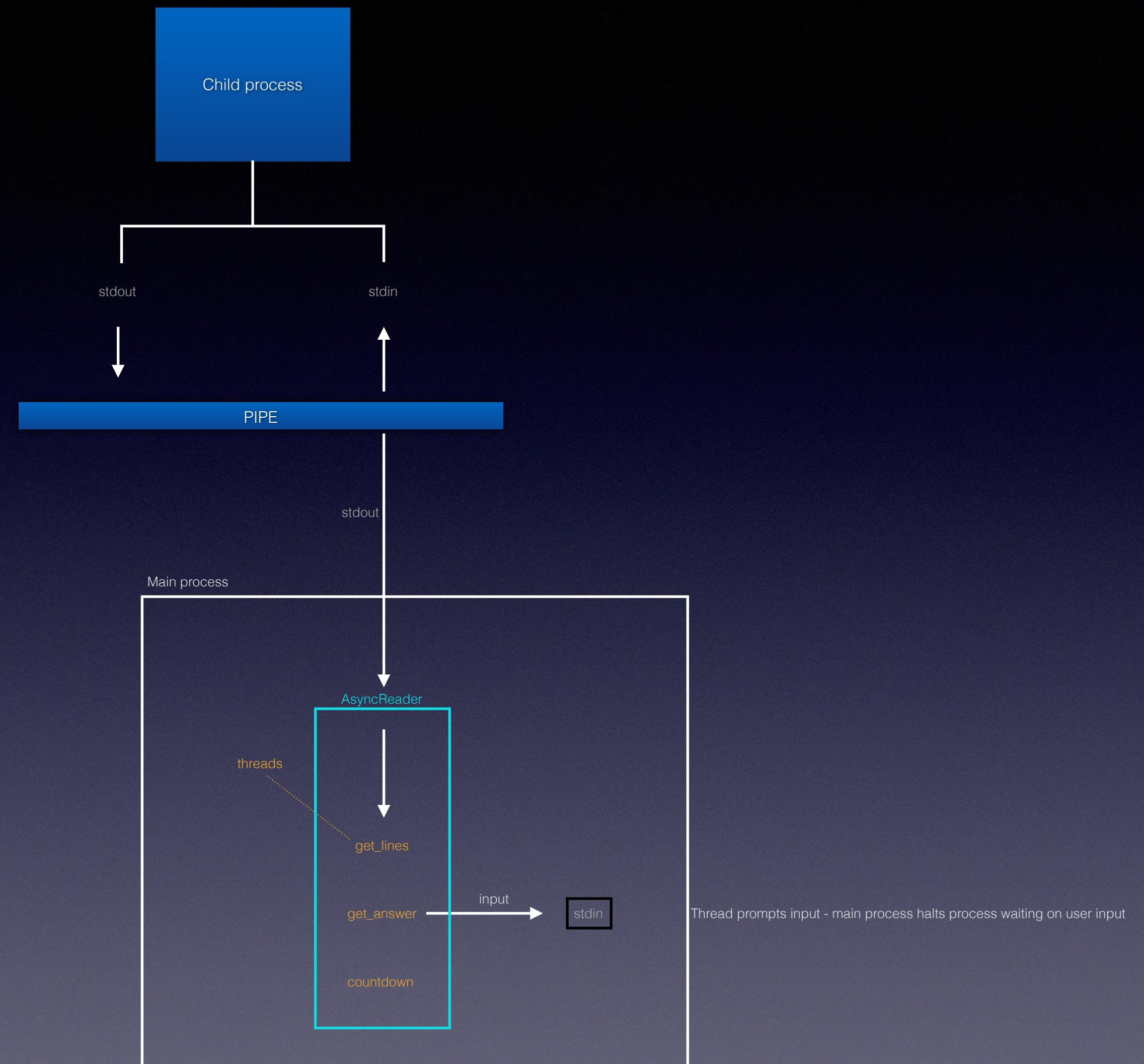
GPU



Tensorflow programs require independent GPUs

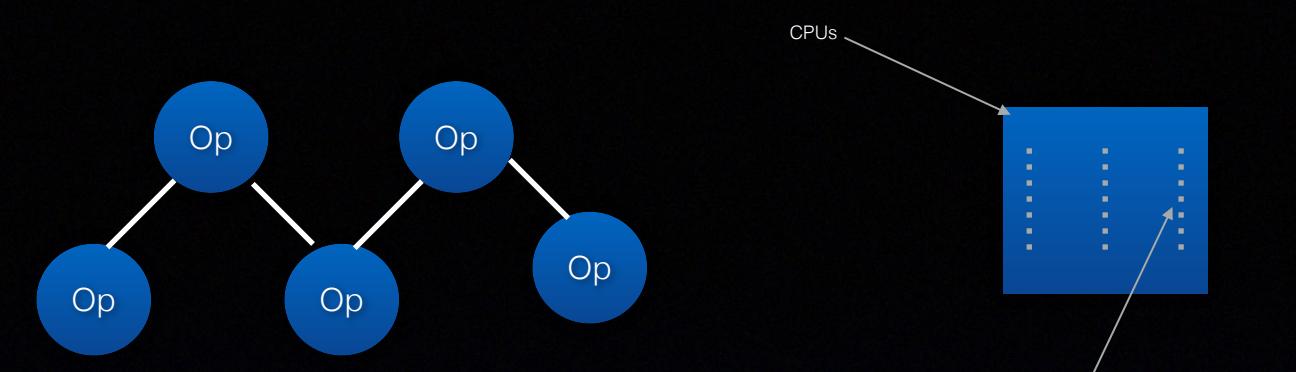


AsyncReader



Scrapped because input routine is required. Inputs halts process, which is not good for automation.

CPU



Multi-core operation (multithreaded is operations permit)

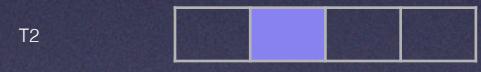


Single-core operation (multithreaded is operations permit)

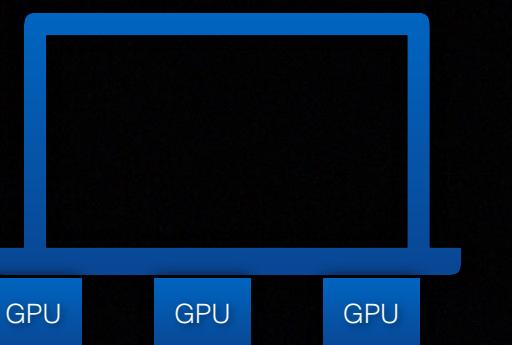
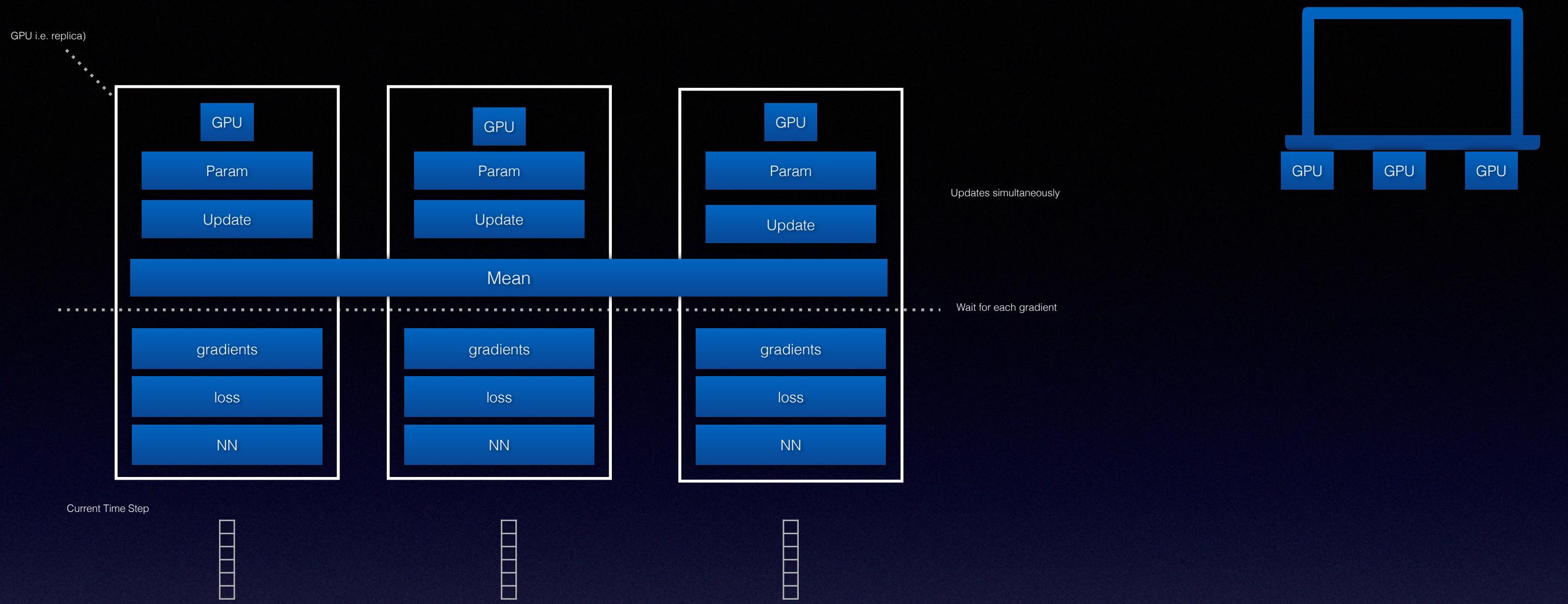


GPU

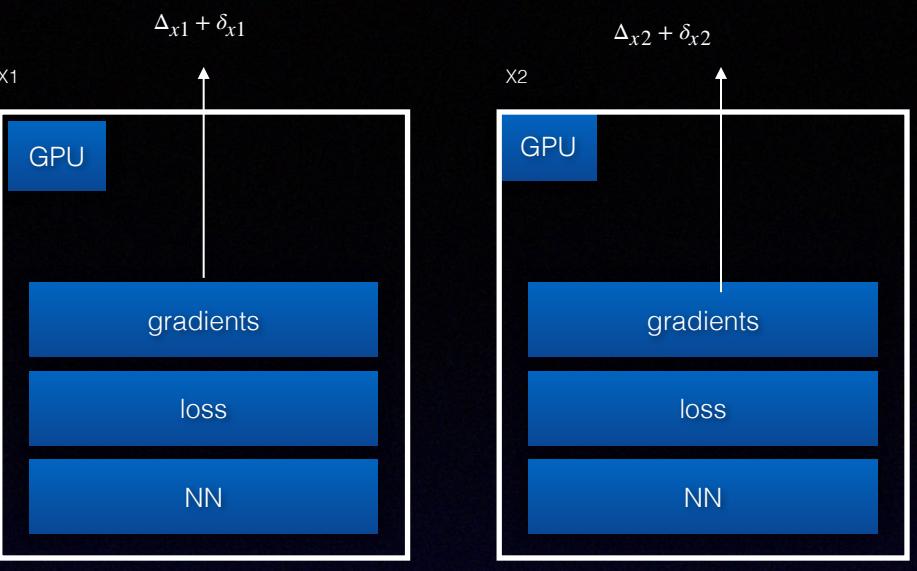
Sequential ops by GPU



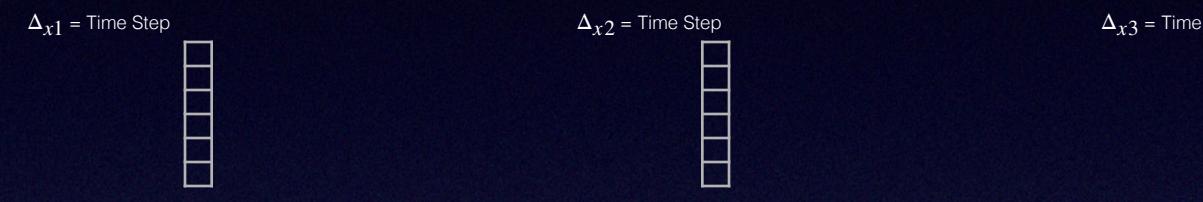
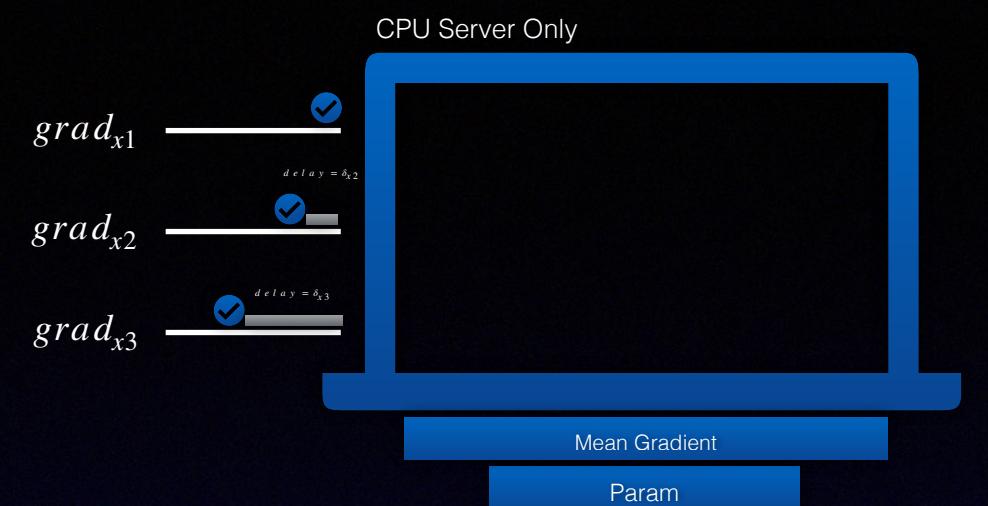
Data Parallelism (Synchronous)



Data Parallelism (Asynchronous)



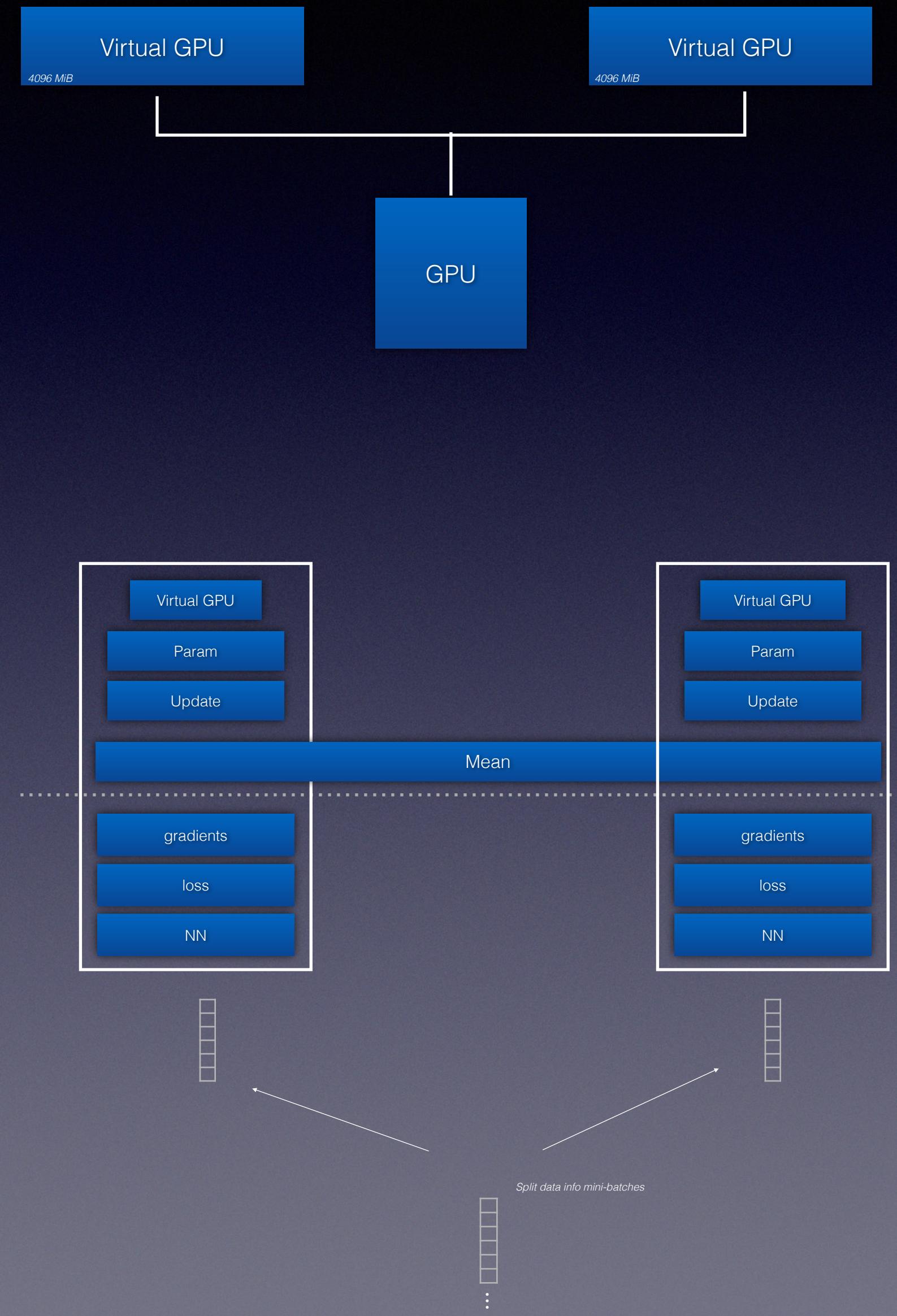
Gradients status received by parameter server.
These gradients are handled by event queue to update parameters



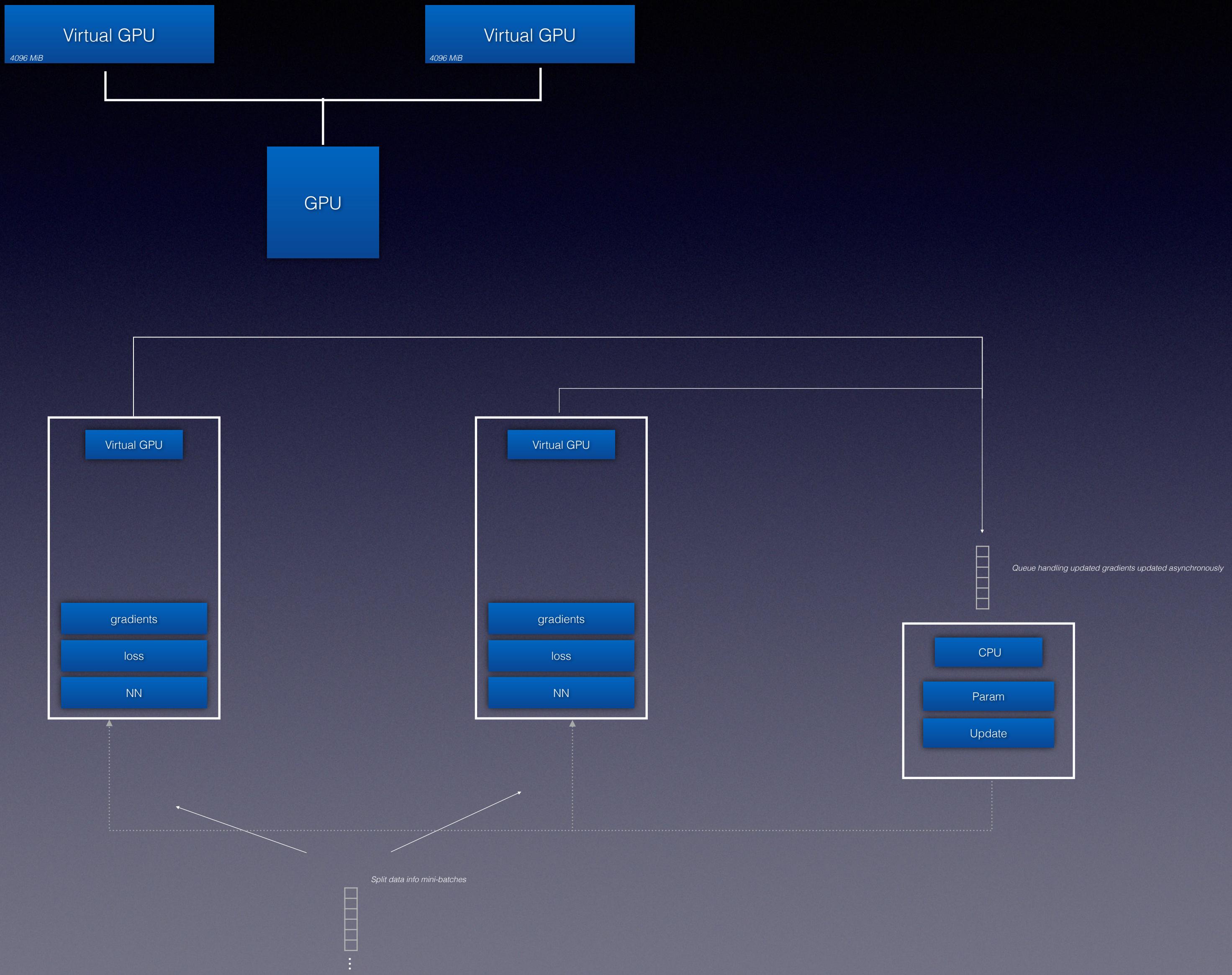
Recommended Design Path:

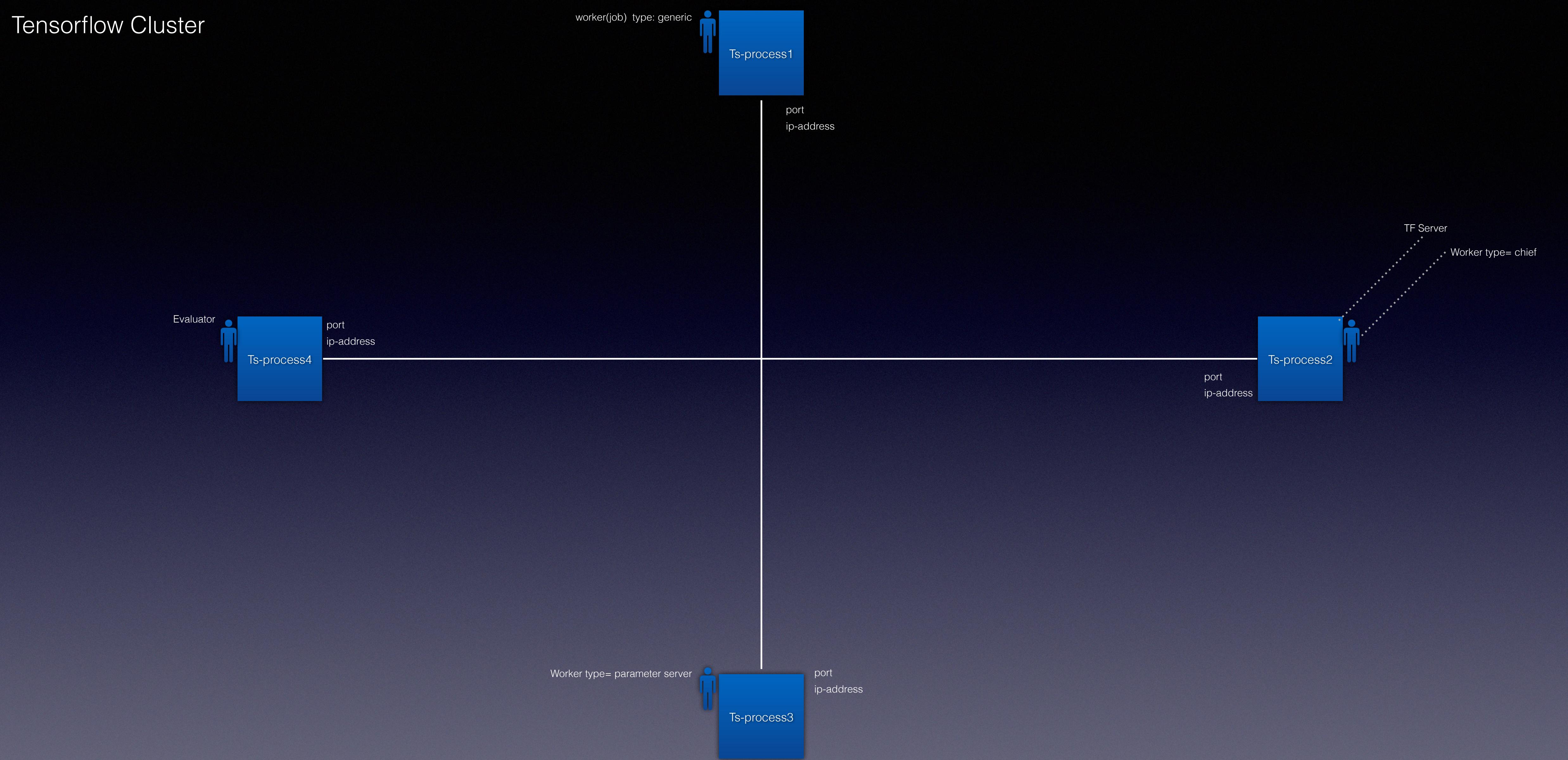


Data Parallelism (Mirrored Example)



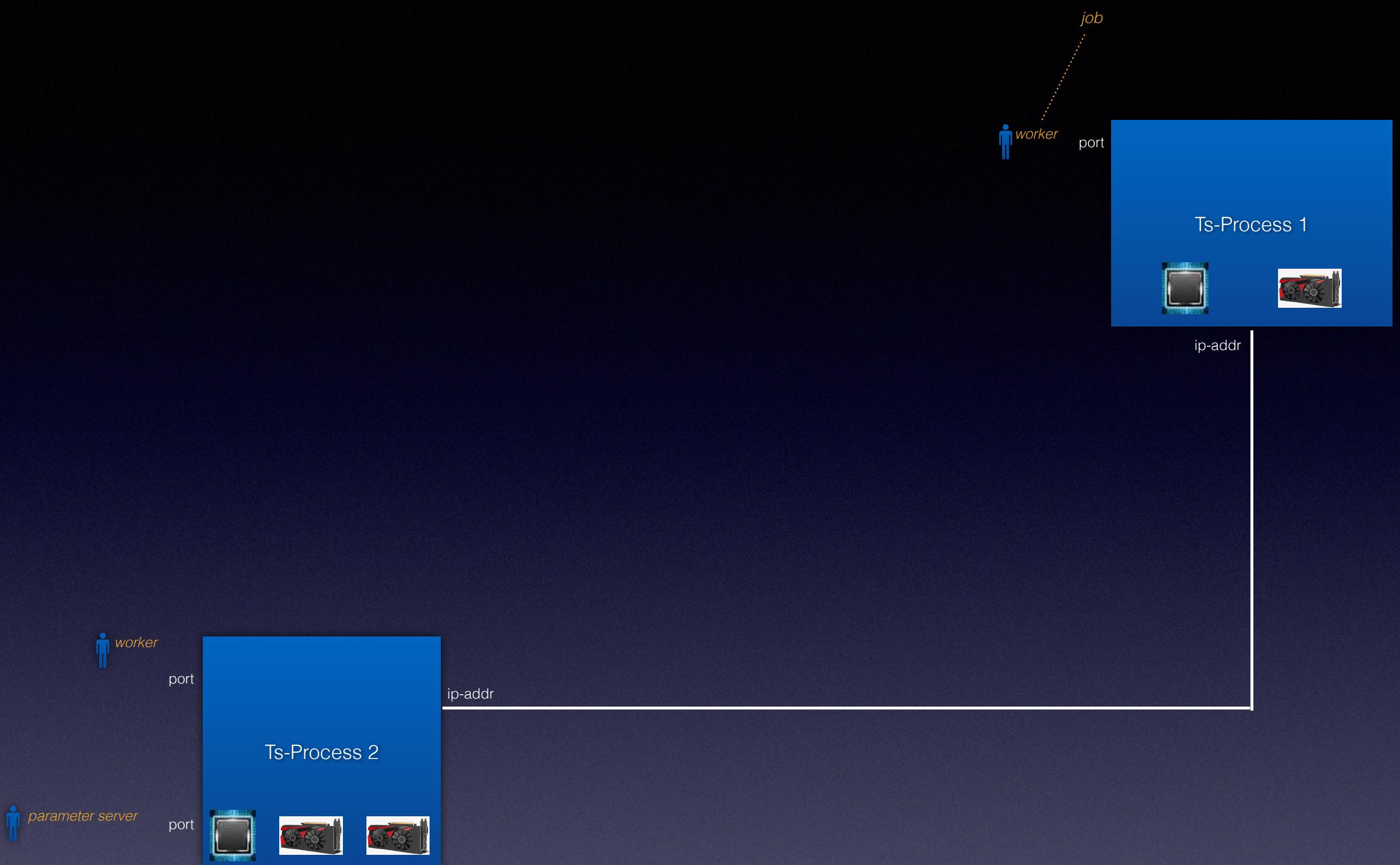
Data Parallelism (Centralized Example)





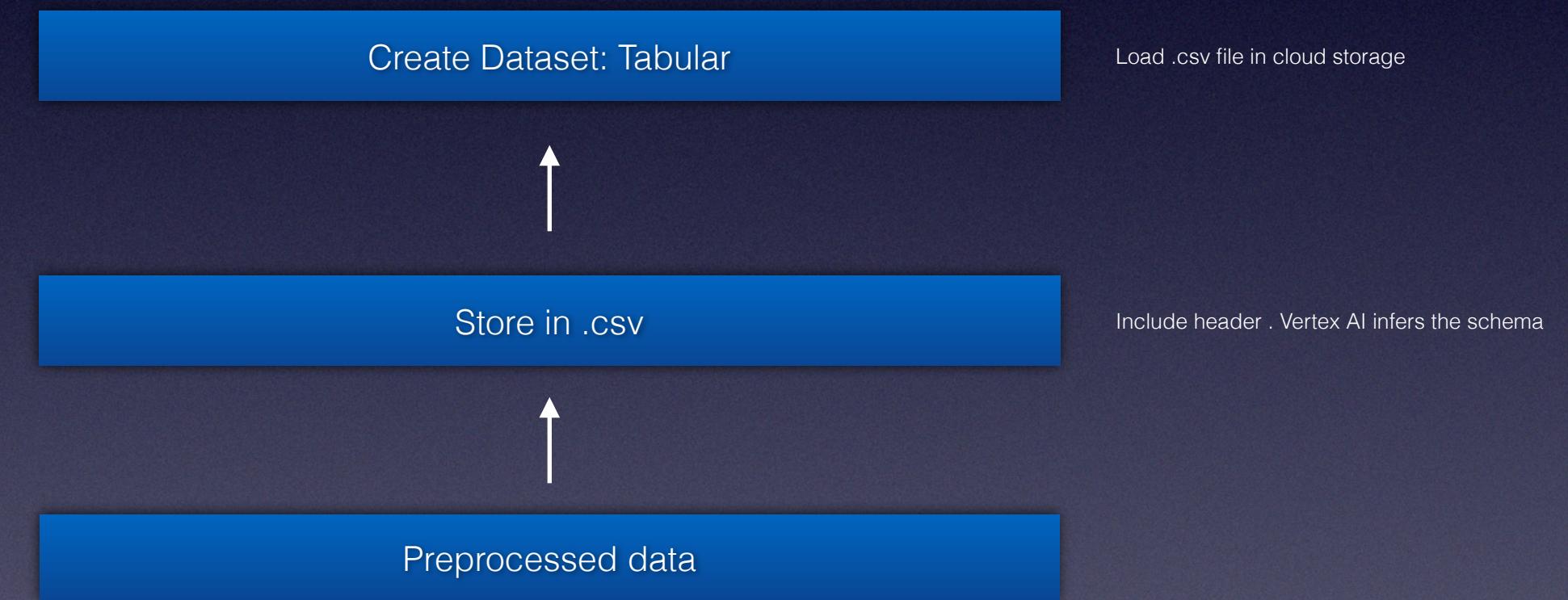
Working together to complete task: training or execute neural network

Tensorflow Cluster

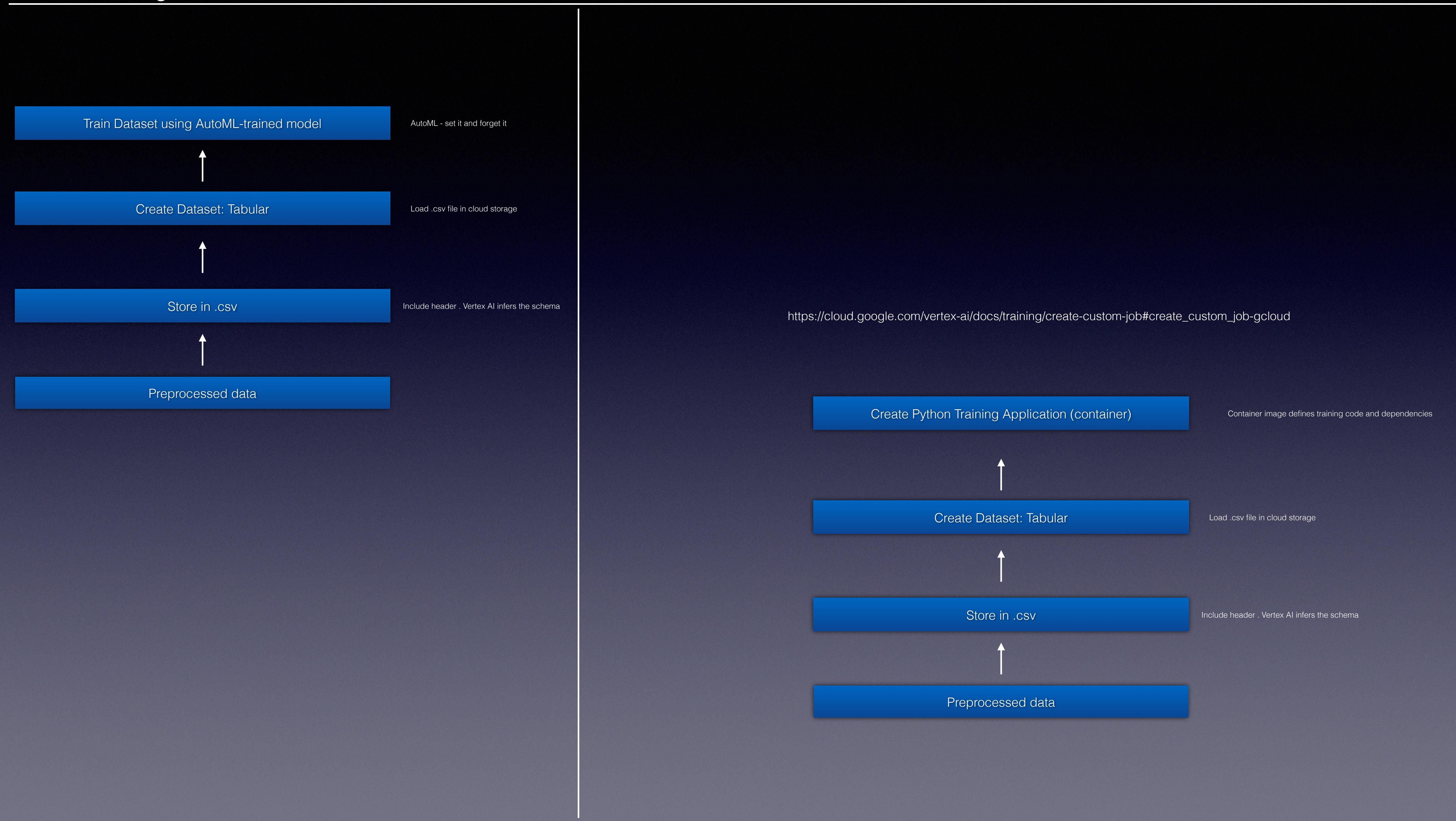


Working together to complete task: training or execute neural network

Data Parallelism (Mirror Example)



Train Job Google Cloud

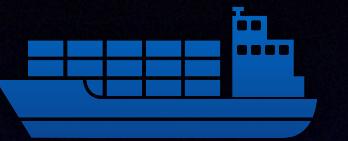


Python Packaging

Package Installer

Package Format

Wheel



Ships libraries with compiled artifacts (C, C++,etc

Package Format

sdist



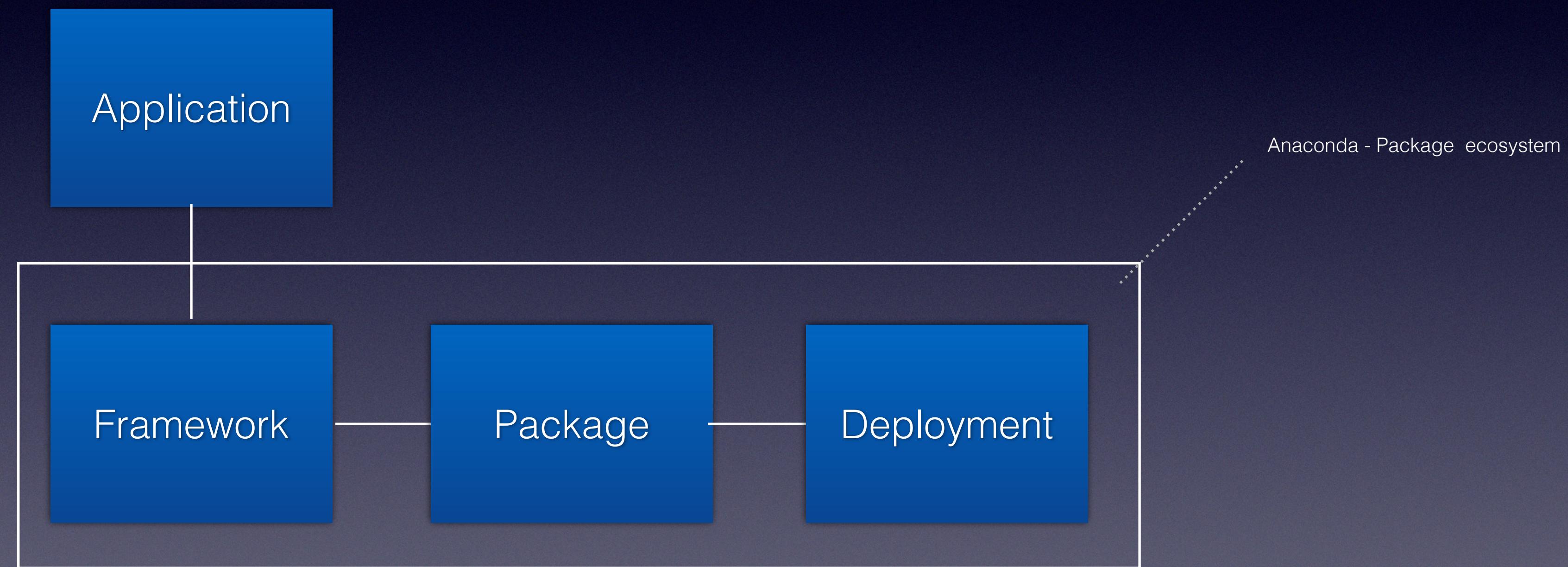
Users build binaries from source distributions

Package Format

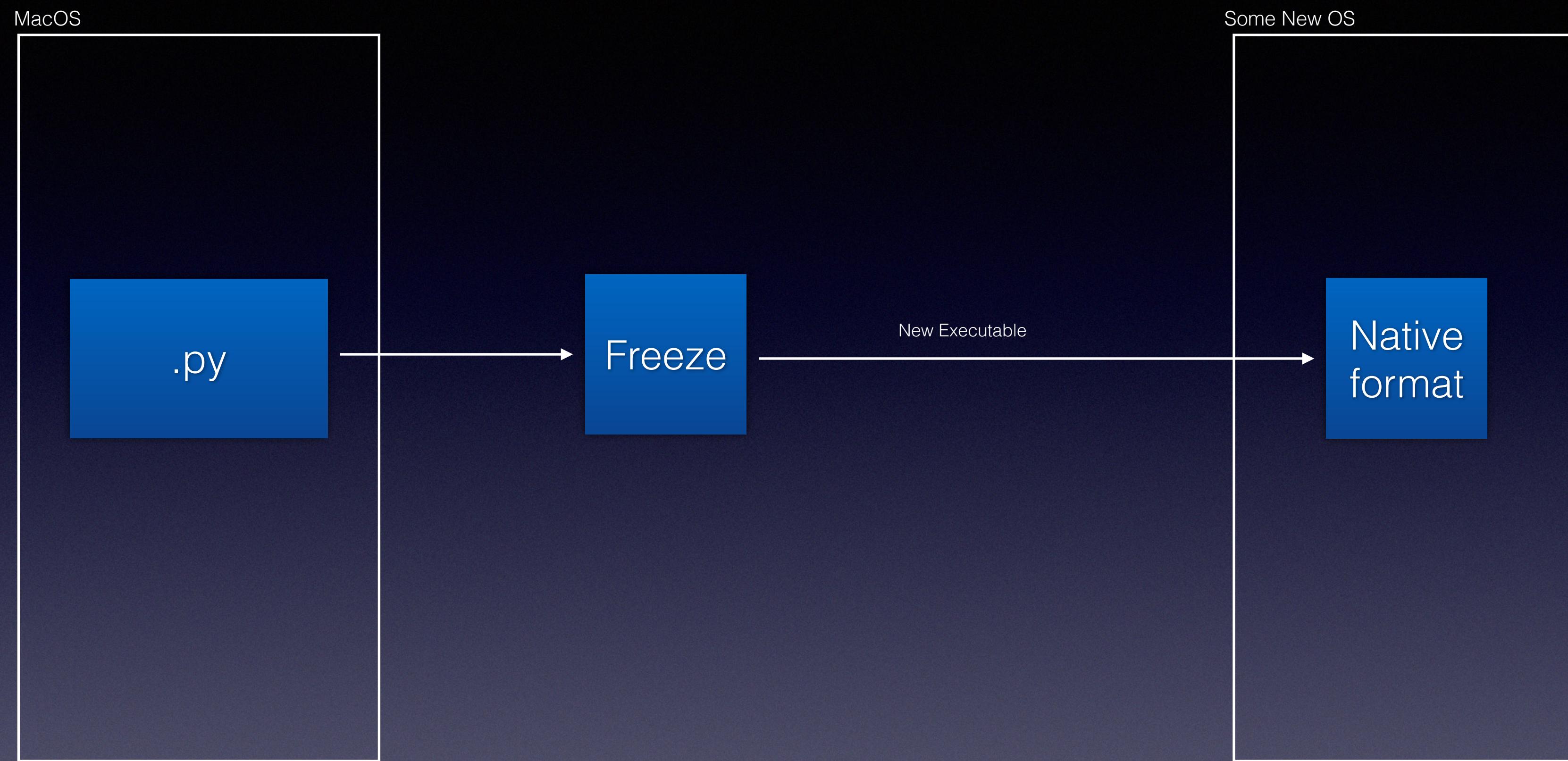
.py



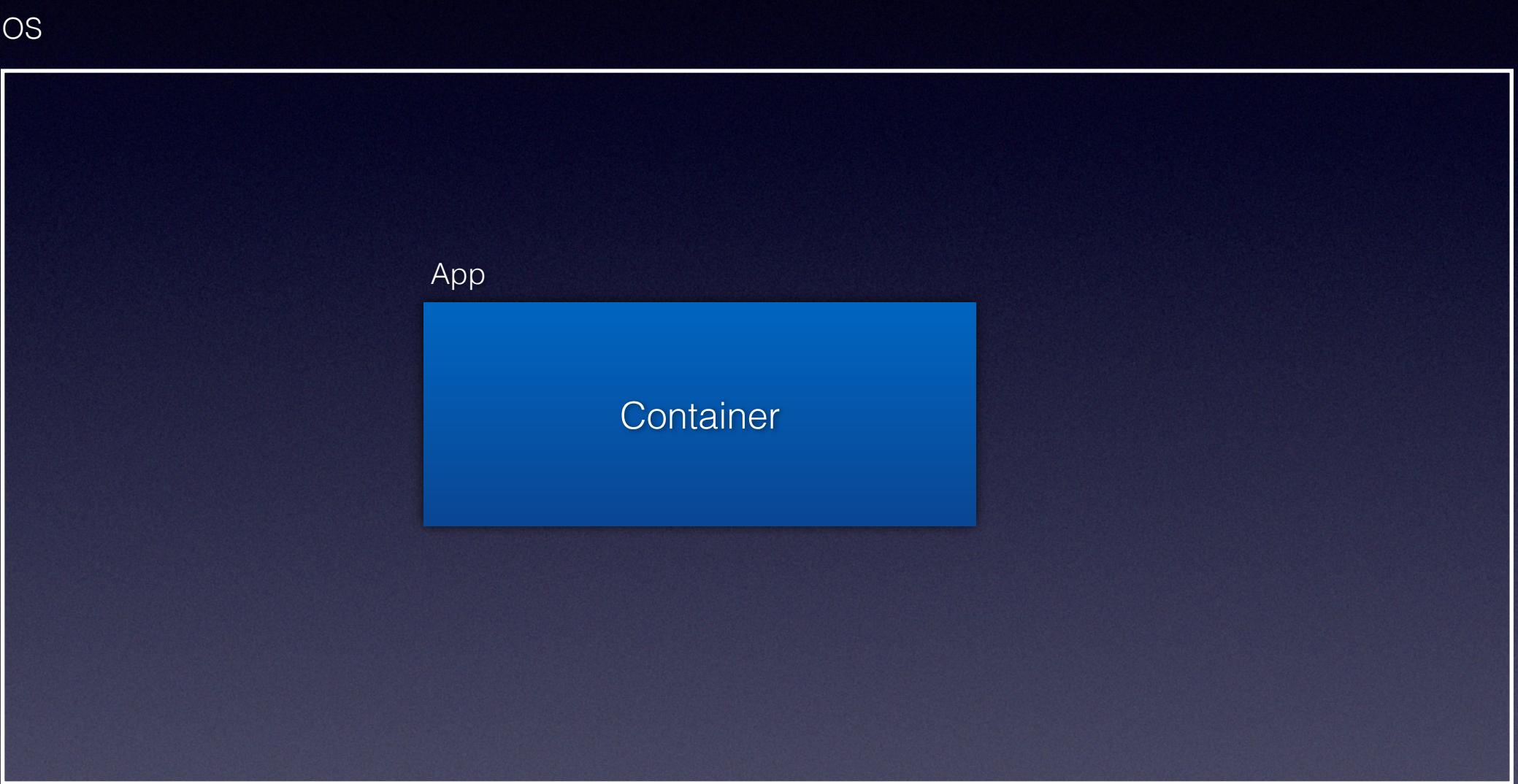
Standalone modules



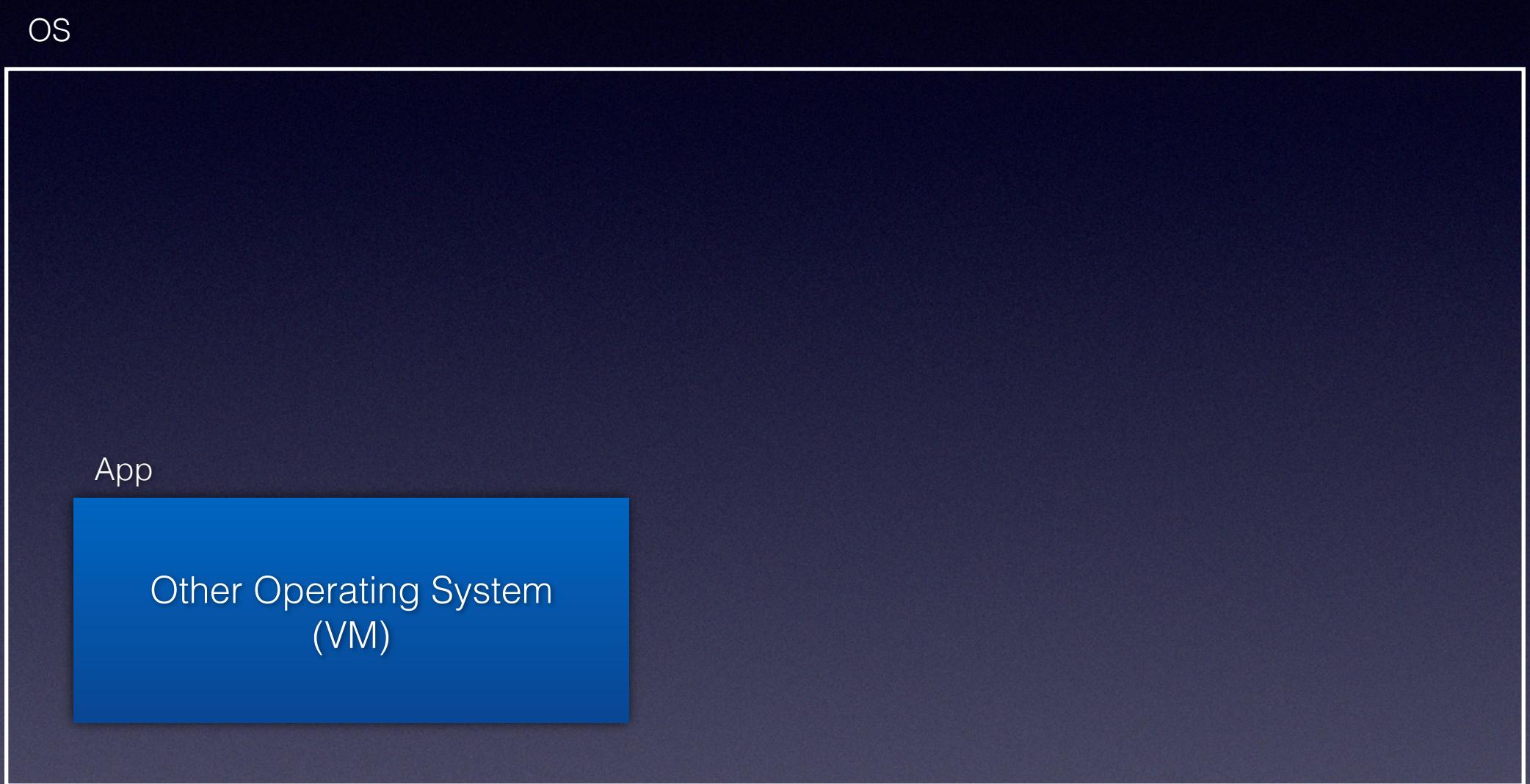
Python Executable to Native Format via Freezing



OS Level Virtualization



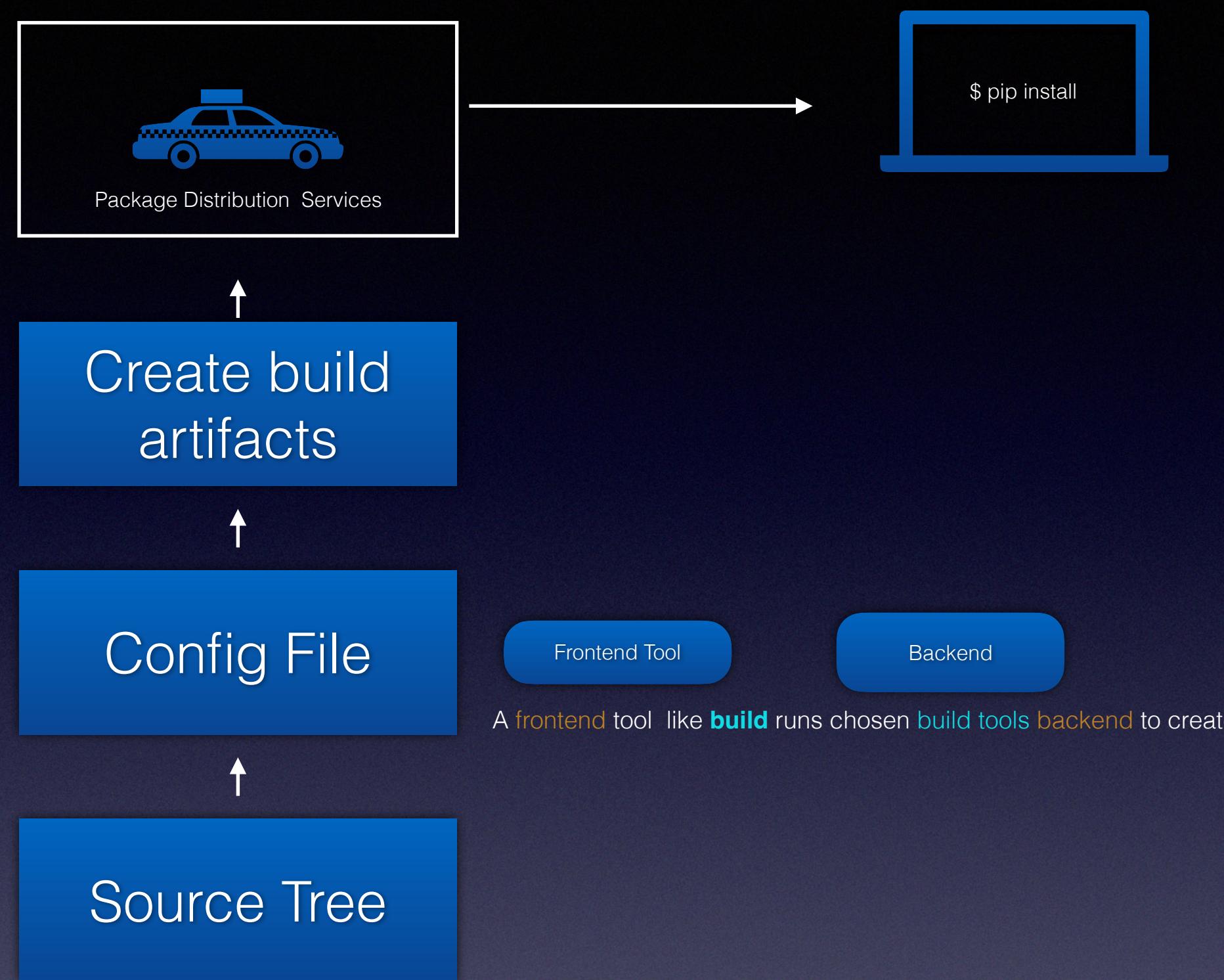
Classical Virtualization



Embed onto Mini Microcontrollers

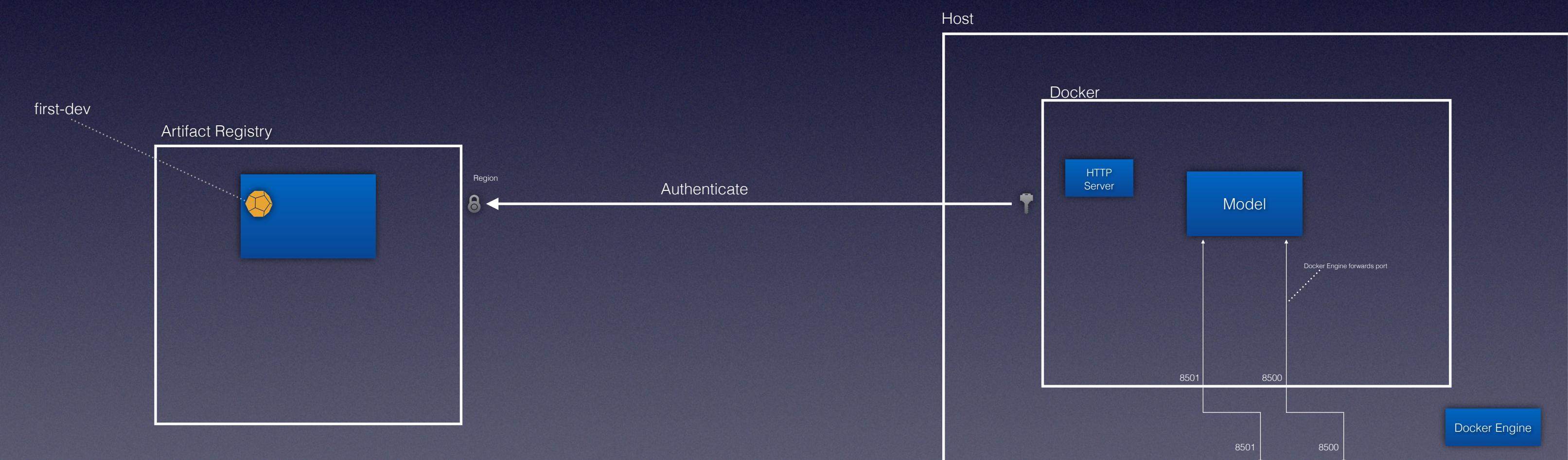
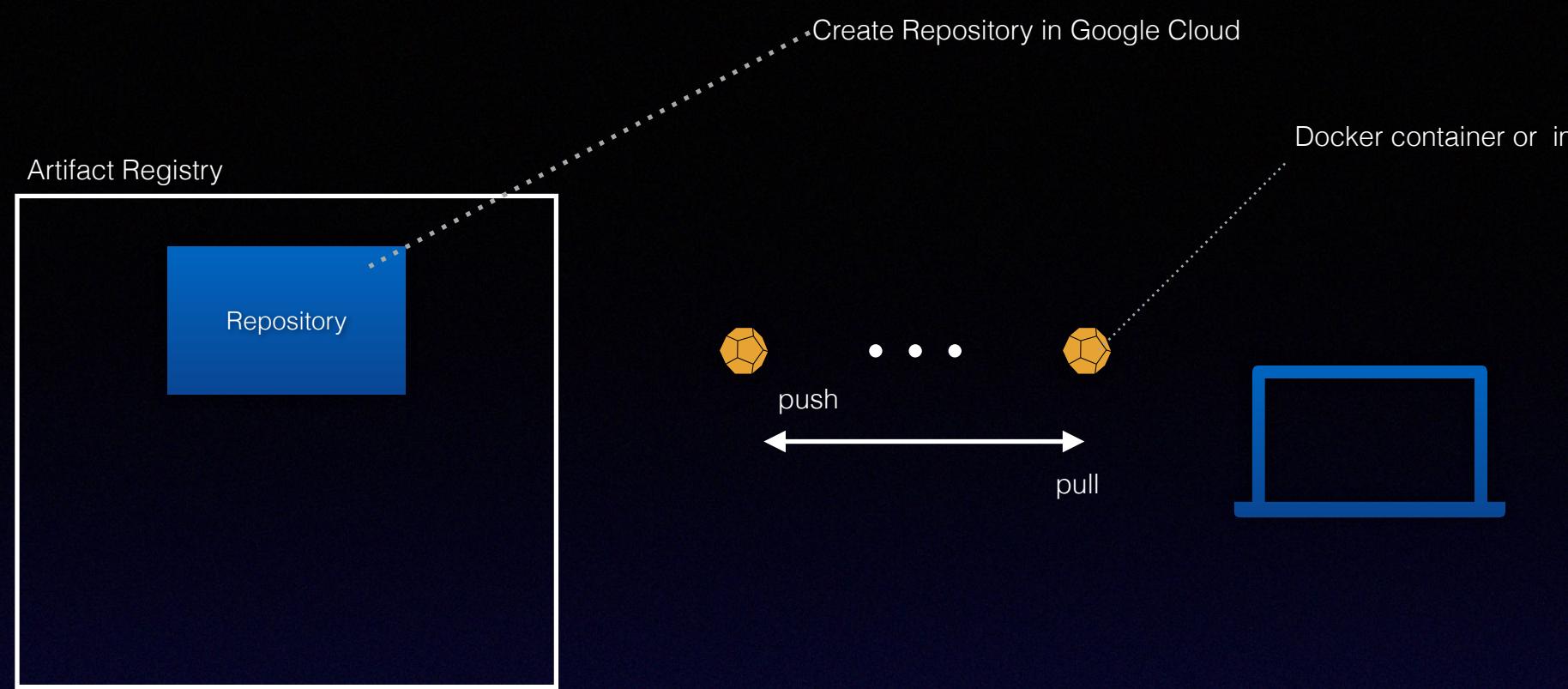


Packaging Flow

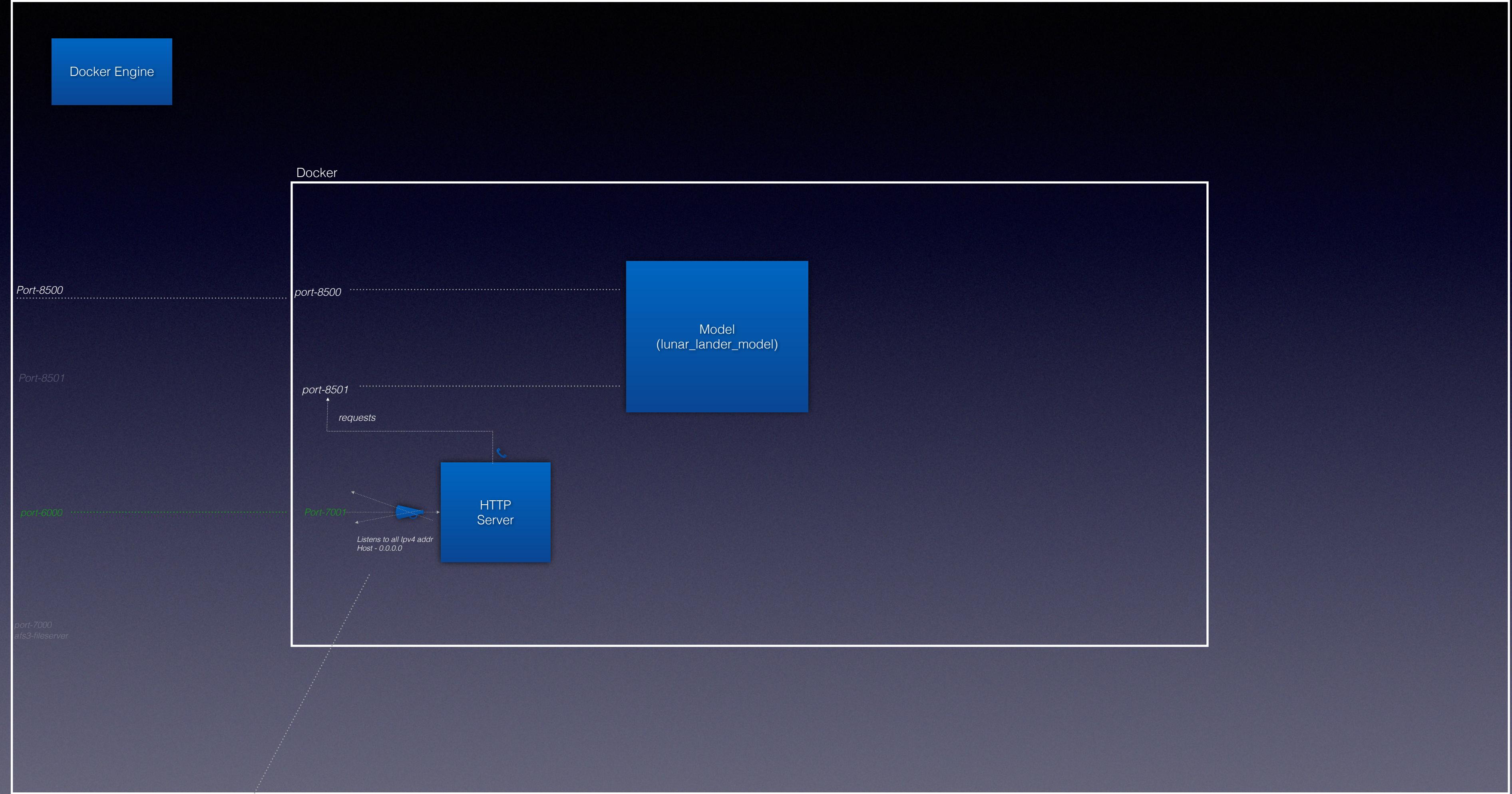


Create Python Training Application

<https://console.cloud.google.com/artifacts?project=flash-bazaar-233821>



Host



Host request to model POST http://localhost:8501/v1/models/lunar_lander_model:predict



All address can predict the server.
Set to a single address instead (i.e.
localhost)

Upgrade your account to avoid a break in service (\$58.81 credit and 85 day)

Google Cloud Test Search (/) for resources

Model Registry + Create Import

Models are built from your datasets or unmanaged data sources. There are different types of machine learning models available on Vertex AI, depending on your use case and level of experience with machine learning. [Learn more](#)

Region us-central1 (Iowa)

Filter Enter a property name

| <input type="checkbox"/> | Name | Default version | Deployment status |
|--------------------------|------------------------------------|-----------------|-------------------|
| <input type="checkbox"/> | lunar_lander_model | 6 | Deployed |
| <input type="checkbox"/> | lunar_lander_model | 1 | — |
| <input type="checkbox"/> | lunar_lander_model | 1 | — |

Import model

1 Name and region

2 Model settings

3 Explainability (optional)

Import Cancel

You can import model artifacts that have been trained outside of Google Cloud. Once your model has been imported, you can serve it for online or batch predictions and compare it against your other Cloud AI models. [More info](#)

Import as new model
Creates a new model group and assigns the imported model as version 1

Import as new version
Imports the model as a version of an existing model

Name *

Description

Region ▼ ?

Encryption

Google-managed encryption key
Keys owned by Google

Cloud KMS key
Keys owned by customers

[▲ Show less](#)

Continue

Import model

Name and region

Model settings

Explainability (optional)

Import **Cancel**

Import model artifacts into a new pre-built container
View the list of [supported runtimes](#) including TensorFlow, scikit-learn and XGBoost versions

Import an existing custom container
Build a custom Docker container. Must be stored in [Artifact Registry](#)

Custom container settings

Container image — `us-docker.pkg.dev/flash-bazaar-233821/secondrepo/mytest@sha256:4a3f...` [Browse](#)

The URI for the Docker image in Artifact Registry. You must have permission to access the image. [Learn more](#)

Command

Optional. Specifies the command that runs when the container starts. Overrides the container's ENTRYPOINT instructions.

gs:// Model artifact location (Cloud storage path) [Browse](#)

Path to the Cloud Storage directory where the exported model file is stored (not the path to the model file itself).

Arguments

Optional. Add arguments for the command that runs when the container starts. Overrides the container's CMD instruction. Enter one parameter and its argument per line.

```
--flag_a=xxxx  
-flag2  
flag3
```

Environment variables

Optional. Enter one variable per line, separating the key and value with an equal (=) sign.

Import model

Name and region

Model settings

Explainability (optional)

Import **Cancel**

Import model artifacts into a new pre-built container
View the list of [supported runtimes](#) including TensorFlow, scikit-learn and XGBoost versions

Import an existing custom container
Build a custom Docker container. Must be stored in [Artifact Registry](#)

Custom container settings

Container image
`us-docker.pkg.dev/flash-bazaar-233821/secondrepo/mytest@sh` [Browse](#)

The URI for the Docker image in Artifact Registry. You must have permission to access the image. [Learn more](#)

Command

Optional. Specifies the command that runs when the container starts. Overrides the container's ENTRYPOINT instructions.

Model artifact location (Cloud storage path)
 `gs:// custom_container_0` [Browse](#)

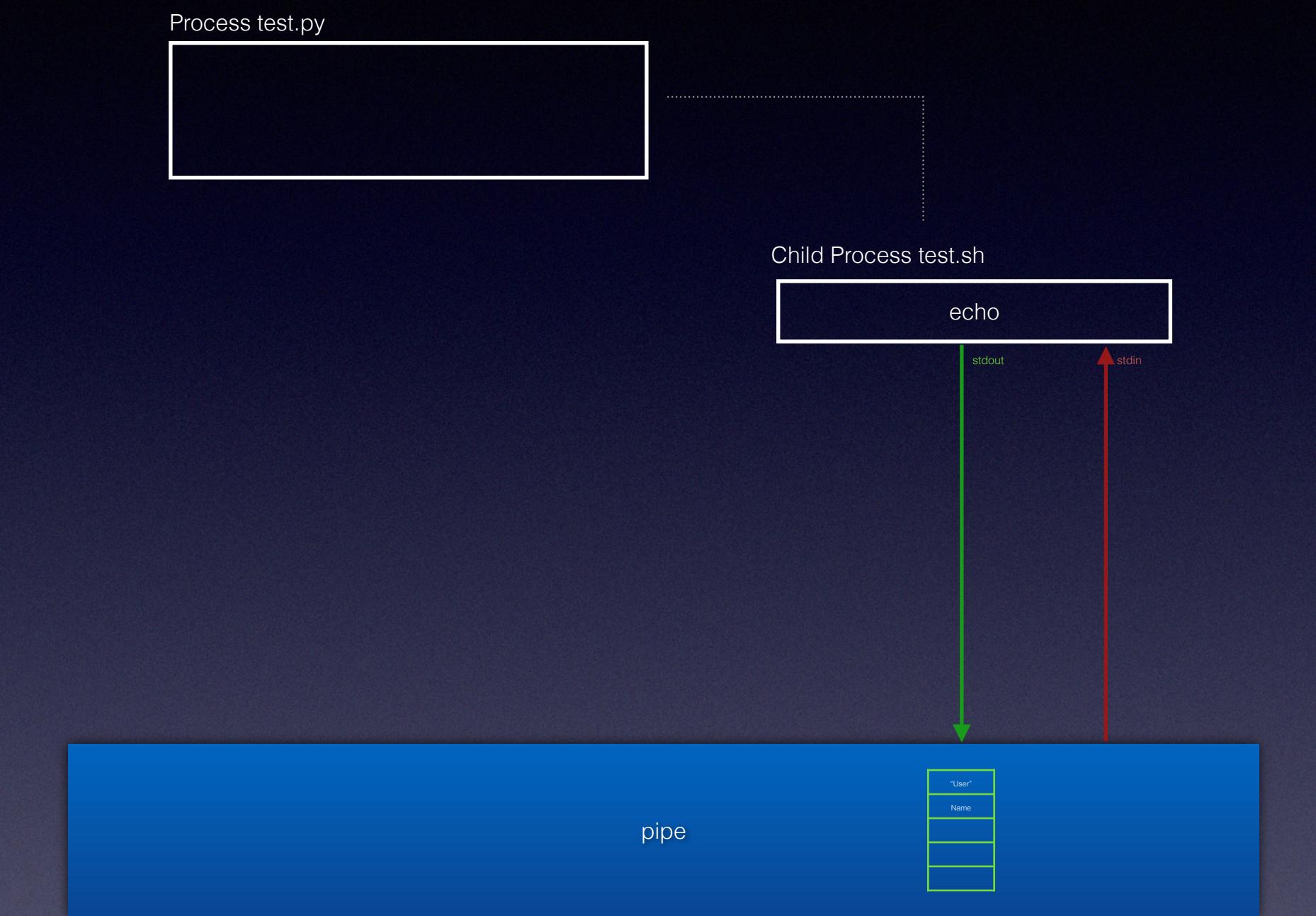
Path to the Cloud Storage directory where the exported model file is stored (not the path to the model file itself).

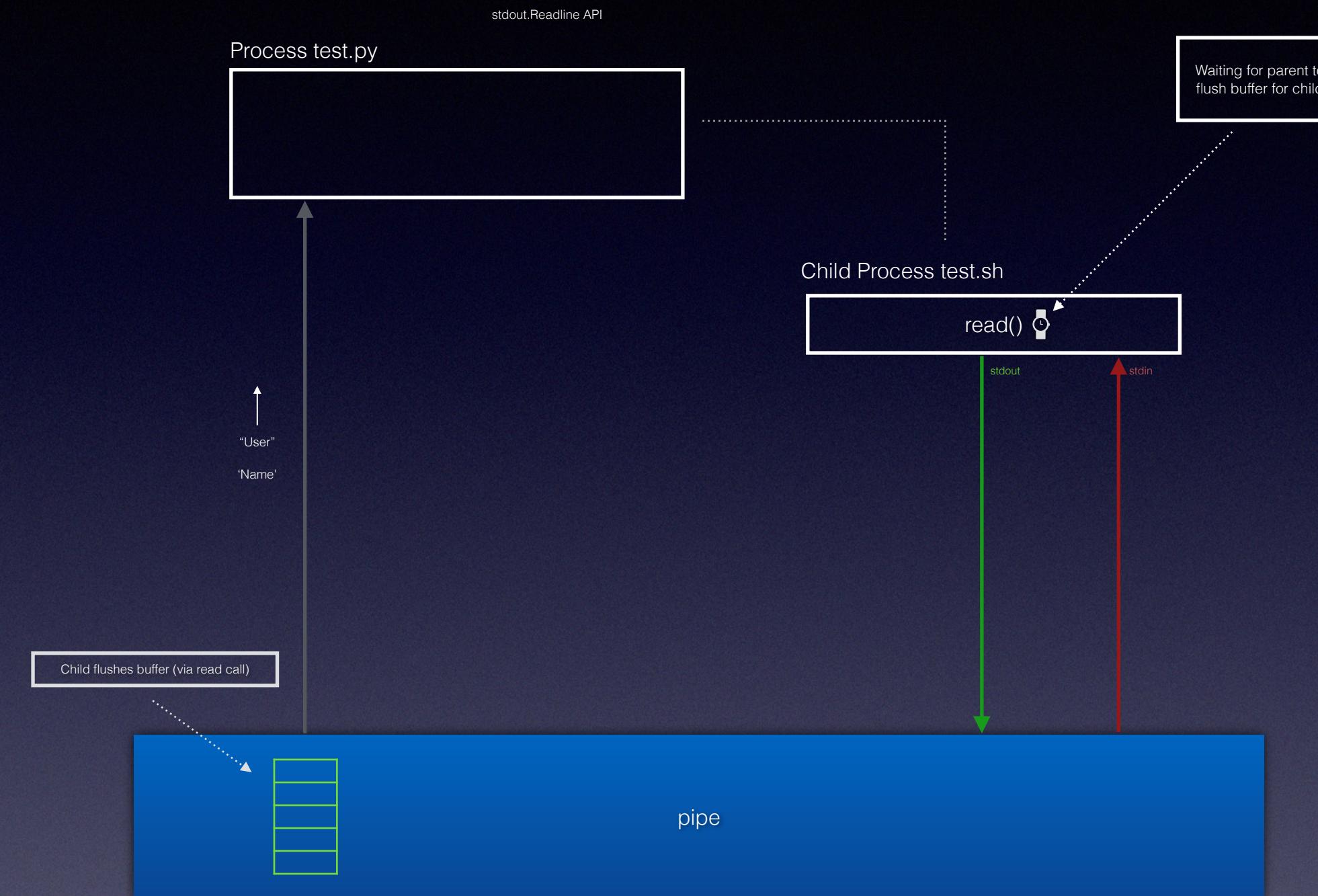
Arguments

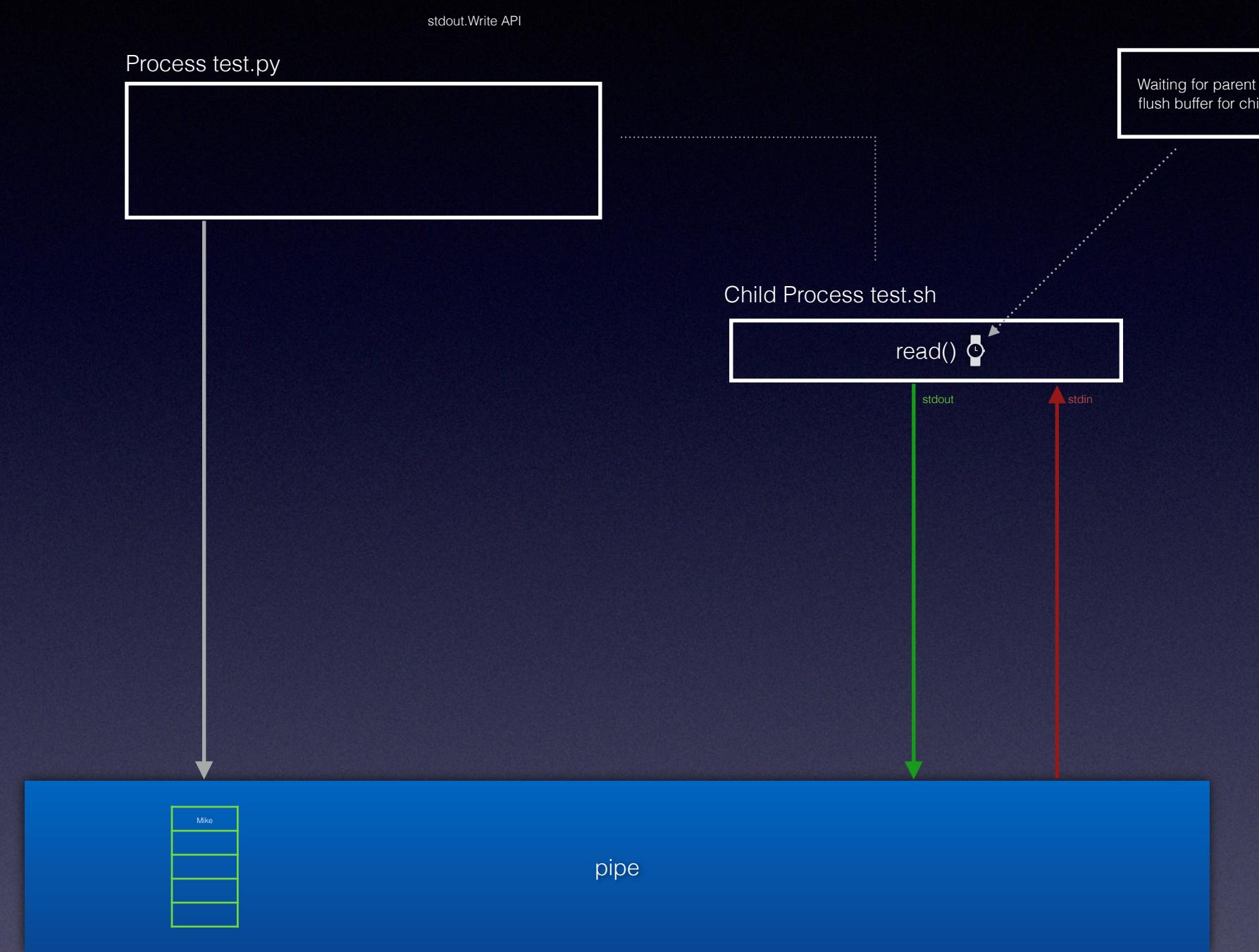
Optional. Add arguments for the command that runs when the container starts. Overrides the container's CMD instruction. Enter one parameter and its argument per line.

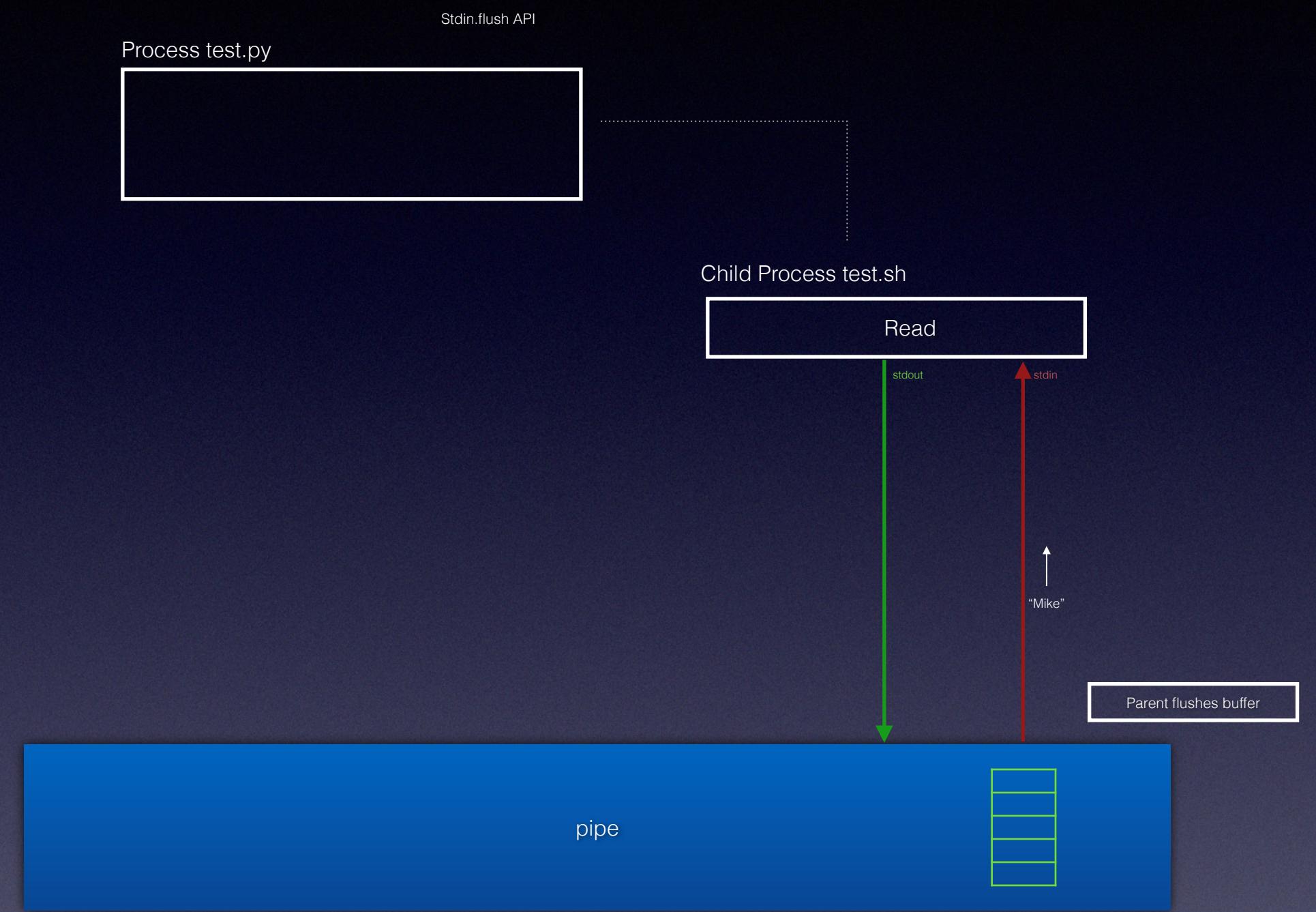
```
-flag_a=xxxx  
-flag2  
flag3
```

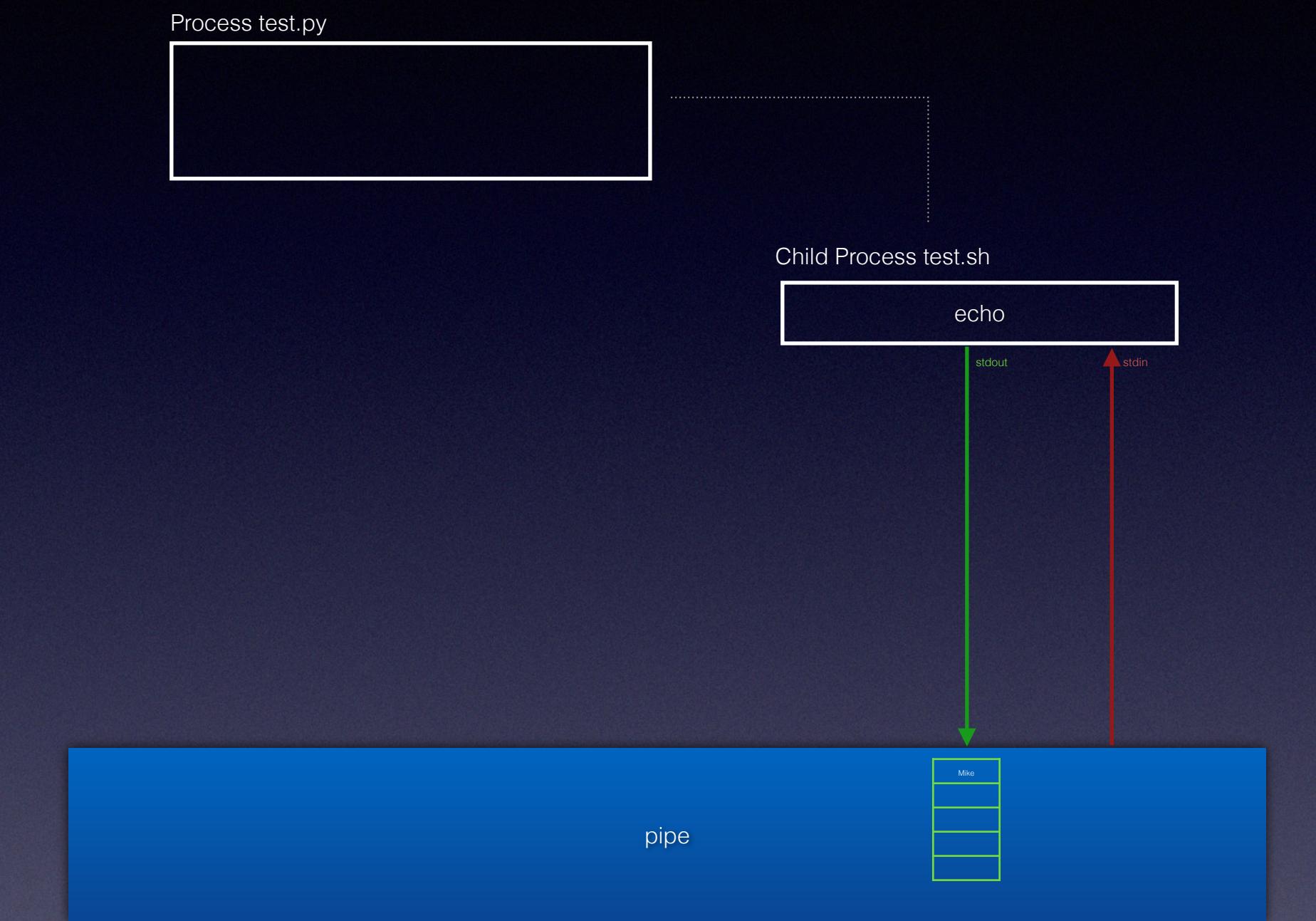
Async Reader

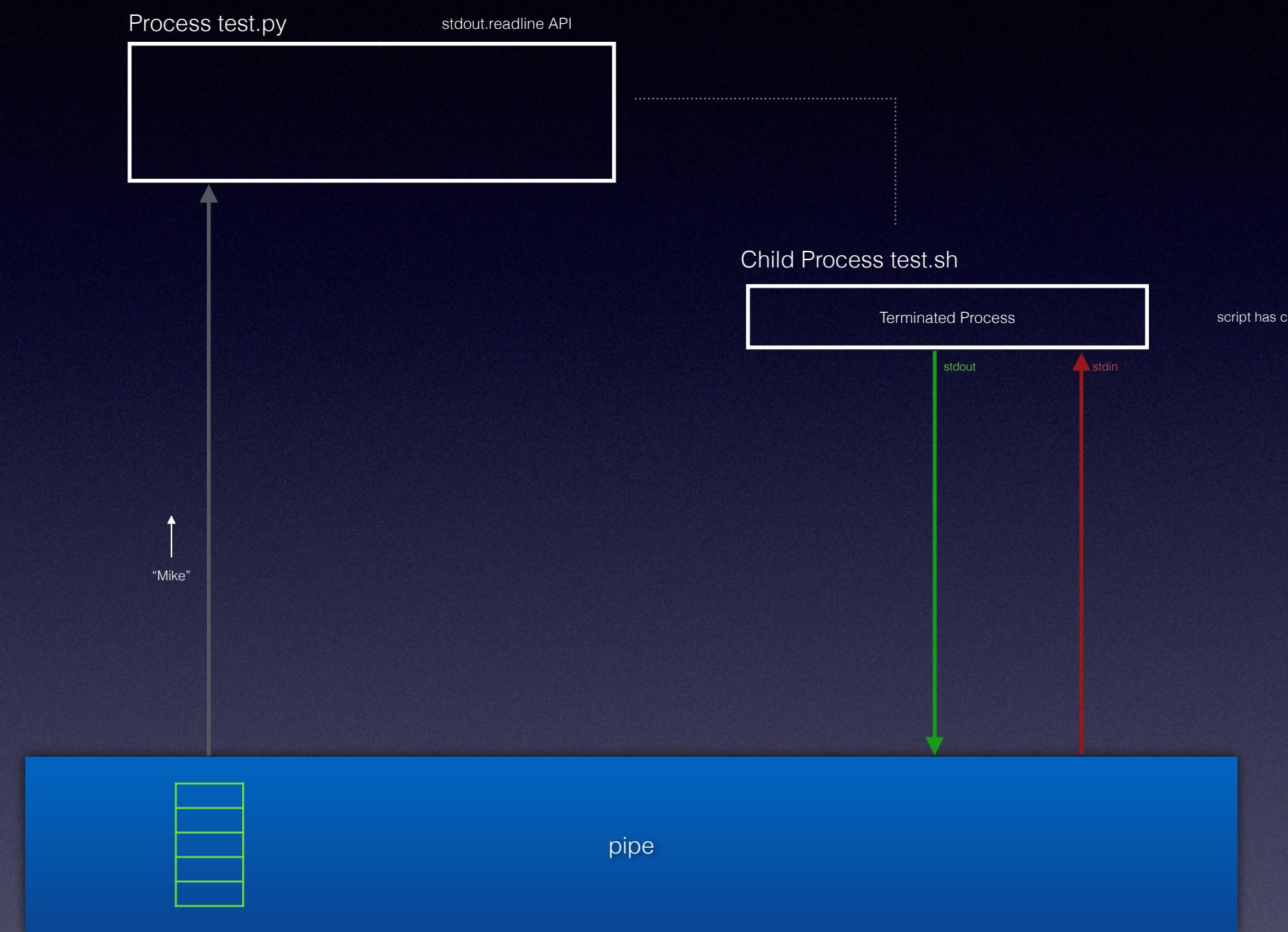


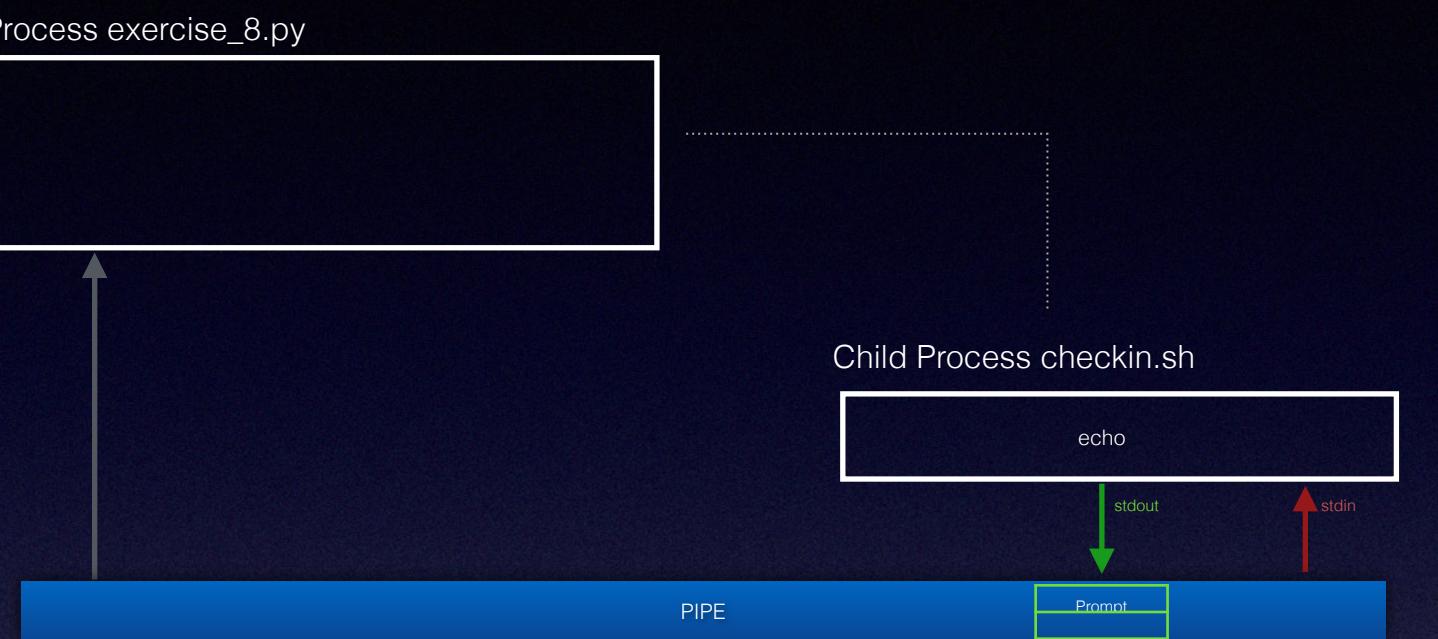


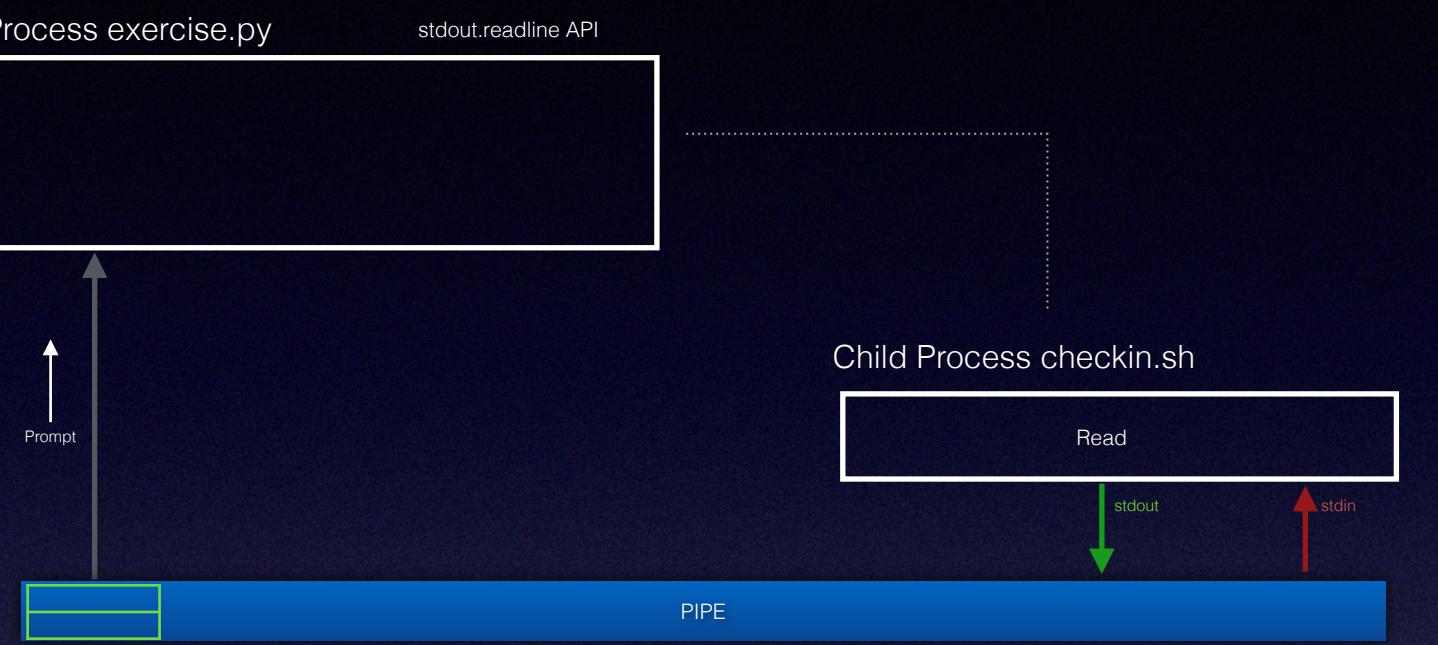


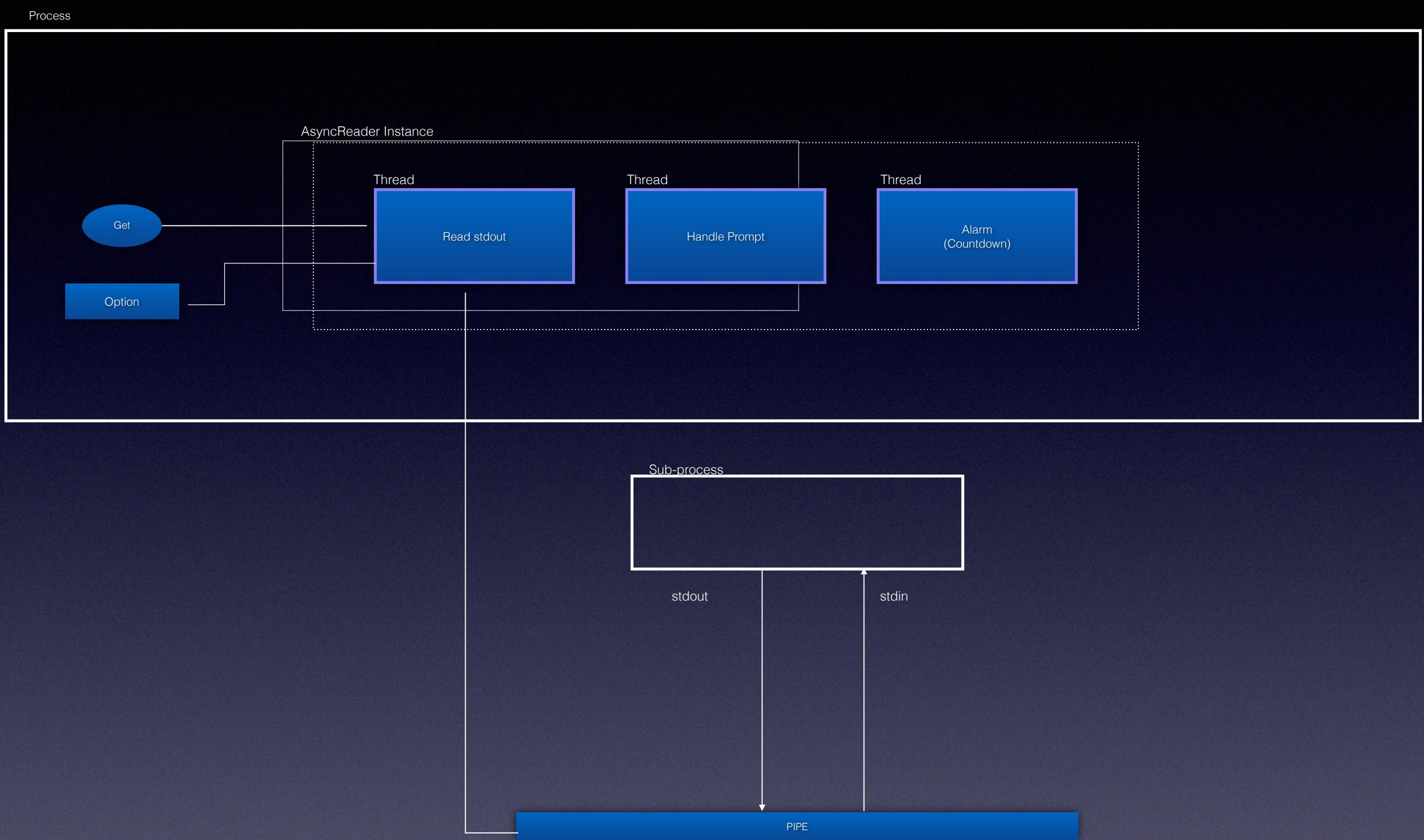












Package for Vertex API

Tree

```
/main_pkg  
/trainer  
/setup.py      ----- setup file  
moduleName=trainer.task .....  
task.py        ----- Training code entry point.  
__init__.py
```

