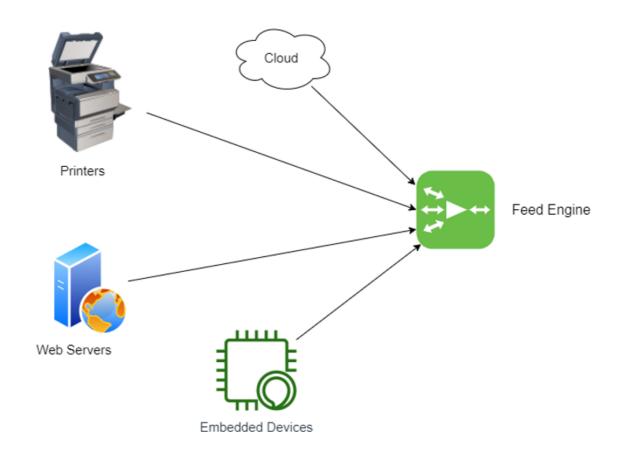
# Feed Engine v1.0

(Progress Update: 18-06-2020)



### **Description**

Used to parse the feeds from various sources (Printers, Network devices, Web servers and other connected devices). These feeds can be used in checking load balancing, health status, tracing.

### **Usage**

To streamline the process we are utilising the Protocol Buffers and gRPC framework.

The engine runs on 9000 port by default. All devices should submit the feeds in serialized format such that data transmission is fast and accurate across network.

We defined a Print service which has a RPC method called Feed. This method takes Content as input parameter and returns Data from the server.

The Content message definition specifies a field data and Data message definition specifies a field feed.

On successful data transmission you should see a message.

```
return service_pb2.Data(feed='Pushing feeds')
...
```

Here is how a sample feed information looks like.

```
{
    "version": "v1.0",
    "title": "Printer Feed",
    "home_page_url": "http://printer.laserinternal.htb/",
    "feed_url": "http://printer.laserinternal.htb/feeds.json",
    "items": [
        {
            "id": "2",
            "content_text": "Queue jobs"
        },
        {
            "id": "1",
            "content_text": "Failed items"
        }
   ]
}
```

### **QA with Clients**

Gabriel (Client): What optimisation measures you've taken?

Victor (Product Manager): This is main aspect where we completely relied on gRPC framework which has low latency, highly scalable and language independent.

John (Client): What measures you take while processing the serialized feeds?

Adam (Senior Developer): Well, we placed controls on what gets unpickled. We don't use builtins and any other modules.

#### **Release Info**

Currently we are working on v1.0 with basic feature which includes rendering feeds on dashboard.

#### **Bugs**

- 1. Error handling in \_InactiveRPCError
- 2. Connection timeout issues
- 3. Forking issues
- 4. Issue raised by clients in last update

# Todo

- 1. Fork support to increase efficiency for more clients
- 2. Data delivery in more formats
- 3. Dashboard design and some data analytics
- 4. Merge staging core to feed engine