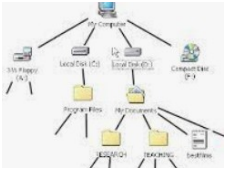
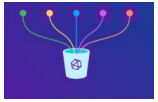
Data flow with Time Series DB

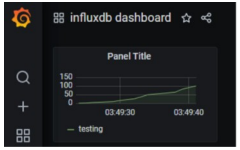
```
curl http://borg:8086/data.cgi
-F data=@data.txt
```



```
$influx->write(
  $point, database => $data);
```




```
http://influx:8086/write?db=data
-d 'swap,host=host 0.85
1656472338'
```

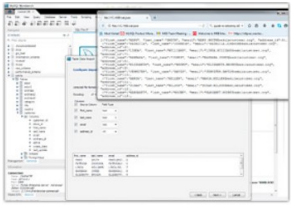


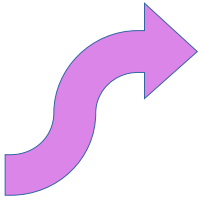

```
influxdb Source
http://influx:8086
```

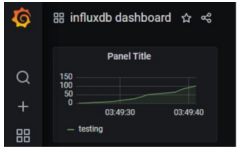
Data flow with classic DB

```
curl http://borg:8086/data.cgi
-F data=@data.txt
```

```
$DBI->prepare($query);
$DBI->execute
```

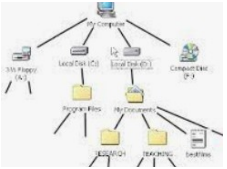




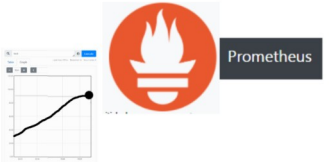



```
influxdb Source
http://influx:8086
```

Ephemeral Data Point flow with Prometheus

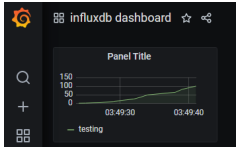


https:8443//pwp/prometheus/metrics

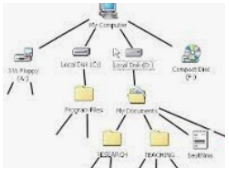



```
scrape_configs:
  - job_name:       'application'

    scrape_interval: 10s
    # metrics_path: /application/metrics
    # reload after change
    metrics_path: /metrics
    honor_labels: true

    static_configs:
      - targets: ['application:8080']
        labels:
          group: 'application'
```

prometheus Source
http://prometheus:9090



Data Backfill into InfluxDB or Regular DB



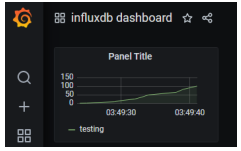
spring

```
connection.prepareStatement(
"insert into data values
(?,?,?)").addBatch()
```

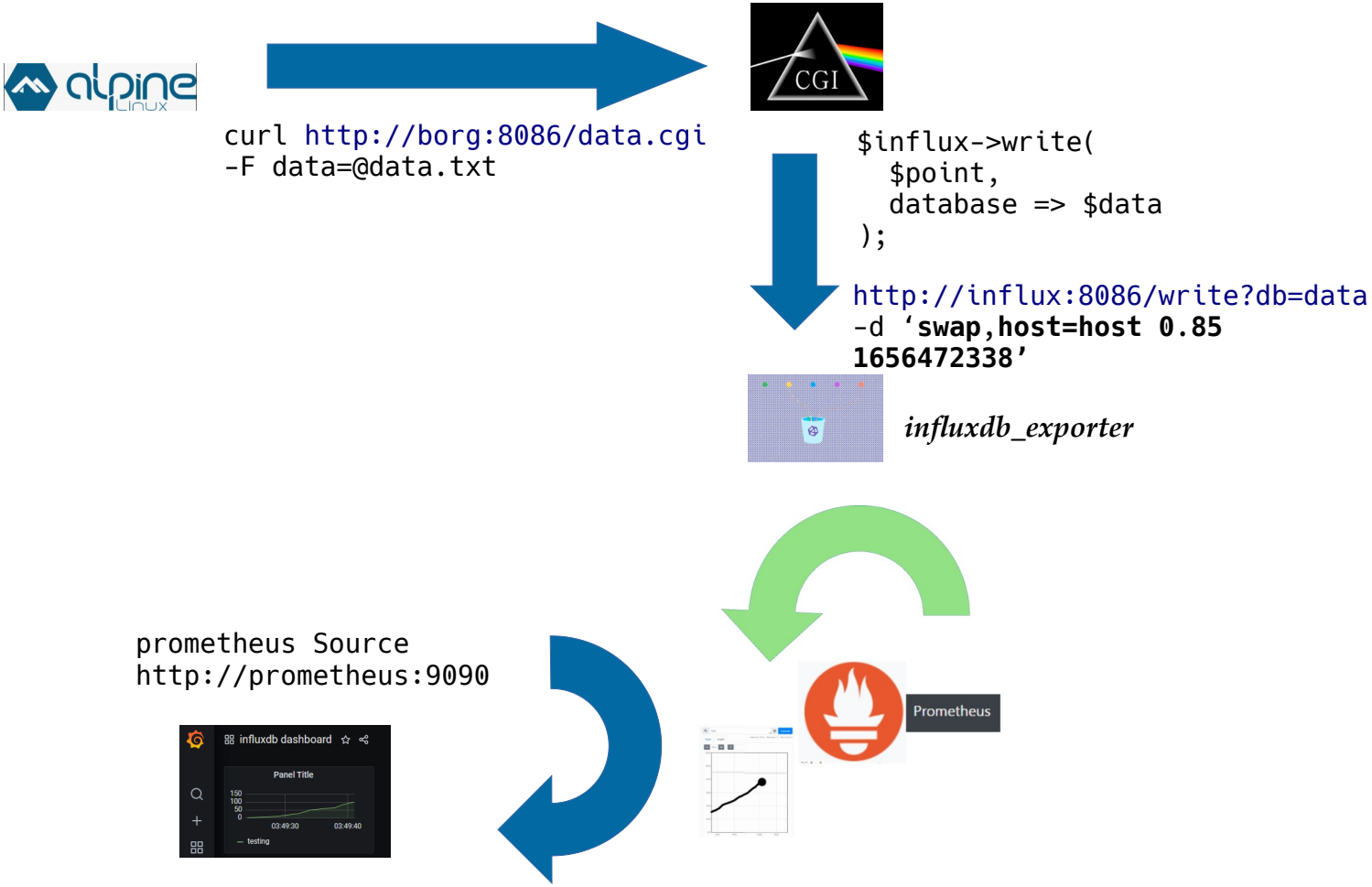
```
influxDB.write(
BatchPoints.builder().
points().build());
```

```
prometheus Source
http://prometheus:9090
```

MySQL



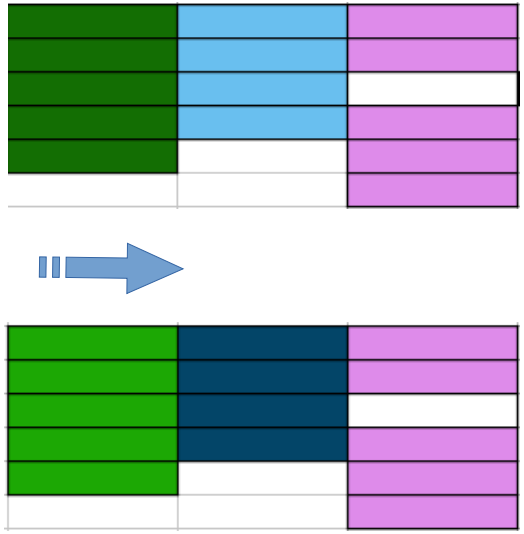
Data flow with Influx DB *and* Prometheus (exotic scenario – not to be used)



Historic Data Ingestion Scenarios

Snapshot scraping style

Timeseries backfill style



InfluxDB 1.x vs. 2.x

SQL Query style

```
db = InfluxDBFactory.connect host user, pass
point = Point.measurement seriesName
   .time System.currentTimeMillis()
   .tag "hostname", hostname
   .addField "idle", 40L
   .build()
db.writePoint point
BatchPoints.builder().points(points).build
db.write batchpoints
db.write "cpu,hostname=host value=60.0"
```

```
influxDB = InfluxDBFactory.connect
query = new Query queryString, databaseName
response = influxDB.query "select * from
testing"
results = response.getResults
while results.iterator.hasNext
```

NoSQL Style

```
client = InfluxDBClientFactory.create host, token, org
api = client.getWriteApiBlocking
api.writePoint
      Point.measurement "cpu"
       .addTag "hostname", "hostname"
      .addField "value", 55D
      .time Instant.now()

api.writeRecord
      "cpu,hostname=host value=60.0"

api.writeMeasurement new POJO
```

```
client = InfluxDBClientFactory.create host, token, org
api = client.getInfluxQLQueryApi
tables = queryApi.query
          from(bucket:testbucket)
           |> range(start: 0)
           |> filter(fn: (r) => r["_measurement"] == "cpu")
records = table.getRecords
record.getValueByKey
```