# Adding short data load to Protect / Risk

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## Preparing the PingOne Protect Data Loader

The PingOne Protect Data Loader is available on GIT at: https://github.com/malewars/pingone-synthetic-risk-loader This is purely for demonstration purposes.

The source file includes a few hundred ip addresses, mail domains, fictitious user applications, and almost all the known Brower agents so we can load a reasonable amount of variety into the PingOne Protect Dash Board to look something like the following:



Step 1: Clone the GIT (https://github.com/malewars/pingone-synthetic-risk-loader)

Step 2: Update the variables file; the following values are needed from PingOne:

Worker Client Worker Client Secret Environment ID Risk Policy ID

Also, update the variables with how many samples to load and if Bad Actors should be included.

Example: myclient="CLIENTID-001" client secret="CLIENT-SECRET-0011-1111-1111"

RISKPOLICYID="RISKPOLICY-001-001" ENVID="ENVID-001-0001-001" BADACTORS="YES" RUNS=1 DEBUG="NO"

Step 3: Your local machine needs to have the following installed using Brew or with the OS Jot - a command to issue random numbers in a range

Python - a working Python 3 with base64, requests, sys (command: brew update; brew install python3)

Curl - a command to make HTTP requests; suggested to use the one with Brew as the default Mac OS X curl is limited (command: brew install curl)

Gawk - Installed via Brew (command: brew install gawk)

Step 4: Open a termina and run the script - Showing below a quiet run, see Appendix for a verbose run output.

Reference: How do I get brew?

Open a terminal window and run this command:

/bin/bash -c "\$(curl -fsSL

https://raw.githubusercontent.com/Homebrew/install/HEAD/install.sh)"

## Modifying PingOne Protect Policy To Override Decisions

Open PingOne

Two ways to override loading decisions to distribute load into charts.

- Modify the Weights to force medium and high decisions to be low, medium, or high.
   Open Risk Policies > Threat Protection > Risk Policies
  - open rusici olioles mical i roleolion rus
  - Click Pencil to edit the Default Risk Policy
  - Click Scores: If we need to force low change High to be 99 and Medium as 98 (be sure to restore values later)
- 2) Add a custom predictor to force decisions

Add new Custom Predictor > Click Threat > Predictor +

Name it Custom > InduceRisk Attribute: \${event.country}

Fallback: Low

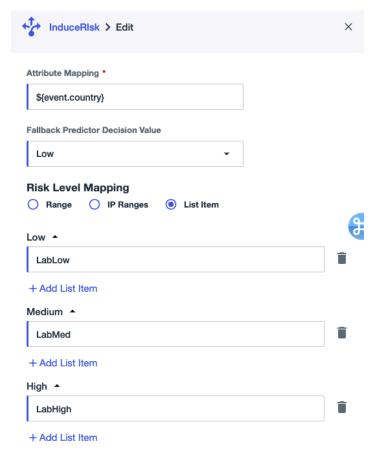
Risk Mapping: List Low: Add "LabLow" Medium: Add "LabMed" High: Add "LabHigh" and click save.

Screenshot:

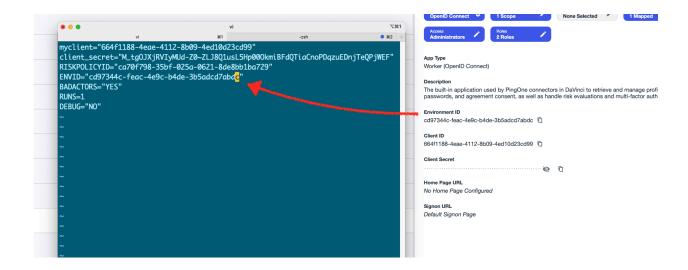
Open Risk Policies > Threat Protection > Risk Policies Click Pencil to edit the Default Risk Policy

#### Add Override Rule:

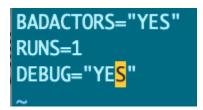
Click Induce Risk: Score High > Low; Medium > Low Run a short feed to see if results are now received as Low.



## Appendix 1: PingOne instance variables



# Appendix 2: Sample Verbose Run With Bad Actors Enabled



./sendrandom.sh

We are loading number 1

Name is Jamir Donovan and source app is Web App Two domain is web.de Emails is Jamir.Donovan@web.de and Client browser: Mozilla/5.0 (iPad; CPU OS 8\_1\_2 like Mac OS X) AppleWebKit/600.1.4 (KHTML, like Gecko) Version/8.0 Mobile/12B440 Safari/600.1.4 and their ip is 194.72.48.87

```
{
    "_links" : {
        "self" : {
            "href" :
```

"https://api.pingone.com/v1/environments/cd97344c-feac-4e9c-b4de-3b5adcd7abdc/riskEvaluations/39d64390-11ff-405f-9fd9-0746b03eb275"

```
},
```

```
"environment" : {
   "href": "https://api.pingone.com/v1/environments/cd97344c-feac-4e9c-b4de-3b5adcd7abdc"
  },
  "event": {
   "href":
"https://api.pingone.com/v1/environments/cd97344c-feac-4e9c-b4de-3b5adcd7abdc/riskEvaluati
ons/39d64390-11ff-405f-9fd9-0746b03eb275/event"
  }
 },
 "id": "39d64390-11ff-405f-9fd9-0746b03eb275",
 "environment" : {
  "id": "cd97344c-feac-4e9c-b4de-3b5adcd7abdc"
 },
 "createdAt": "2024-02-14T14:54:10.610Z",
 "updatedAt": "2024-02-14T14:54:10.610Z",
 "event" : {
  "completionStatus": "IN_PROGRESS",
  "targetResource": {
   "id": "15fa85c0742a8be144a703f6b14b2888",
   "name": "RiskMFAScoring"
  },
  "ip": "194.72.48.87",
  "flow" : {
   "type": "AUTHENTICATION"
  },
  "session" : {
   "id": "002b1094-9676-42c3-9f4f-56ef112c6918"
  },
  "user" : {
   "id": "Jamir.Donovan@web.de",
   "name": "Jamir Donovan",
   "type": "EXTERNAL",
   "groups" : [ {
    "name" : "seasonal"
   }, {
    "name": "yellow"
   }]
  },
  "sharingType": "SHARED",
  "browser" : {
   "userAgent": "Mozilla/5.0 (iPad; CPU OS 8 1 2 like Mac OS X) AppleWebKit/600.1.4
(KHTML, like Gecko) Version/8.0 Mobile/12B440 Safari/600.1.4",
   "webglVendorAndRenderer": "Intel Inc.~Intel Iris Pro OpenGL Engine",
   "hasLiedLanguages": false,
```

```
"touchSupport": [ "0", "false", "false"],
  "timezone": "New York/US",
  "localStorage": true,
  "cpuClass": "not available",
  "hasLiedOs" : false,
  "language": "en",
  "indexedDb": true,
  "deviceMemory": 8,
  "hasLiedBrowser": false,
  "platform": "macOS Sierra",
  "hasLiedResolution": false,
  "hardwareConcurrency": 8,
  "addBehaviour": null,
  "availableScreenResolution": [877, 1380],
  "timezoneOffset": -5.0,
  "fonts": [ "Arial", "Comic Sans MS", "Courier", "Courier New", "Helvetica"],
  "sessionStorage": true,
  "colorDepth": 24,
  "audio": "124.04345808873768",
  "screenResolution" : [ 900, 1440 ],
  "openDatabase" : true,
  "adBlock" : false
 "origin": "Web App Two"
},
"riskPolicySet": {
 "id": "ca70f798-35bf-025a-0621-8de8bb1ba729",
 "name" : "Default Risk Policy"
},
"result" : {
 "level": "LOW",
 "score": 0.0,
 "source": "AGGREGATED_SCORES",
 "type": "VALUE"
},
"details" : {
 "ipAddressReputation" : {
  "score": 0,
  "domain" : {
   "asn": 2856,
   "sld": "bt",
   "tld": "net",
   "organization": "ftip003172872 malvern instruments ltd",
   "isp": "british telecommunications plc"
```

```
},
 "level": "LOW"
},
"anonymousNetworkDetected": false,
"country": "united kingdom",
"device" : {
 "os" : {
  "name" : "iOS"
 },
 "browser" : {
  "name" : "Mobile Safari"
 }
},
"state": "worcestershire",
"city": "malvern",
"impossibleTravel" : false,
"ipVelocityByUser" : {
 "level": "LOW",
 "threshold" : {
  "source": "MIN_NOT_REACHED"
 },
 "velocity" : {
  "distinctCount": 1,
  "during" : 3600
 },
 "type": "VELOCITY"
"userLocationAnomaly" : {
 "reason": "Not enough information to assess risk score",
 "status": "IN_TRAINING_PERIOD",
 "type": "USER_LOCATION_ANOMALY"
},
"userVelocityByIp" : {
 "level": "LOW",
 "threshold" : {
  "source": "MIN_NOT_REACHED"
 "velocity": {
  "distinctCount": 1,
  "during" : 3600
 "type": "VELOCITY"
"geoVelocity": {
```

```
"level": "LOW",
 "type": "GEO_VELOCITY"
},
"newDevice" : {
 "reason": "This device cannot be identified",
 "status": "MISSING_DEVICE_IDENTIFIER",
 "type": "DEVICE"
},
"ipRisk" : {
 "level": "LOW",
 "type": "IP_REPUTATION"
},
"userBasedRiskBehavior" : {
 "reason": "Not enough information to assess risk score",
 "status": "IN_TRAINING_PERIOD",
 "type": "USER_RISK_BEHAVIOR"
},
"anonymousNetwork" : {
 "level": "LOW",
 "type": "ANONYMOUS NETWORK"
}
```

}Name is Moses Li and source app is Risk Test App domain is mail.ru Emails is Moses.Li@mail.ru and Client browser: Mozilla/5.0 (Windows NT 6.1; WOW64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/42.0.2311.90 Safari/537.36 and their ip is 220.125.91.208