Dynatrace Web Synthetic Monitoring

APMaaS Reseller Dashboard - ARD

Please direct questions about APMaaS Reseller Dashboard or comments on this document to:

zvrk_crv-dynaTrace@yahoo.com

Contents

Preface

The APMaaS Reseller Dashboard (ARD) monitors Dynatrace APMaaS highlighting:

- Daily, APMaaS configuration changes
- Hourly, test faults
- Hourly, application
    - Availability issues
    - Performance threshold breaches
- Half hourly PLM Agent status

APMaaS Reseller Dashboard is auto configurable.

Introduction to APMaaS Reseller Dashboard (ARD)

APMaaS Reseller Dashboard consists of various tables glued together into one expandable harmonium, where first two tables expand by default:

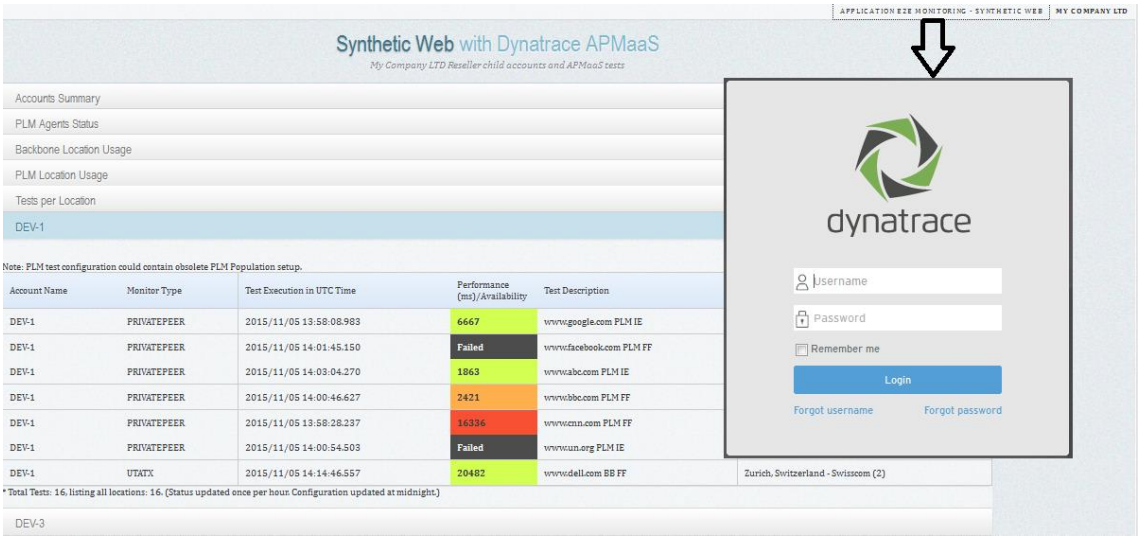
1. Accounts Summary
2. PLM Agents Status

The rest of the tables are imploded with visible table title only:

1. Backbone Location Usage
2. PLM Location Usage
3. Tests per Location
4. Child Account Details 1
5. Child Account Details 2
6. …

APPLICATION E2E MONITORING - SYNTHETIC WEB

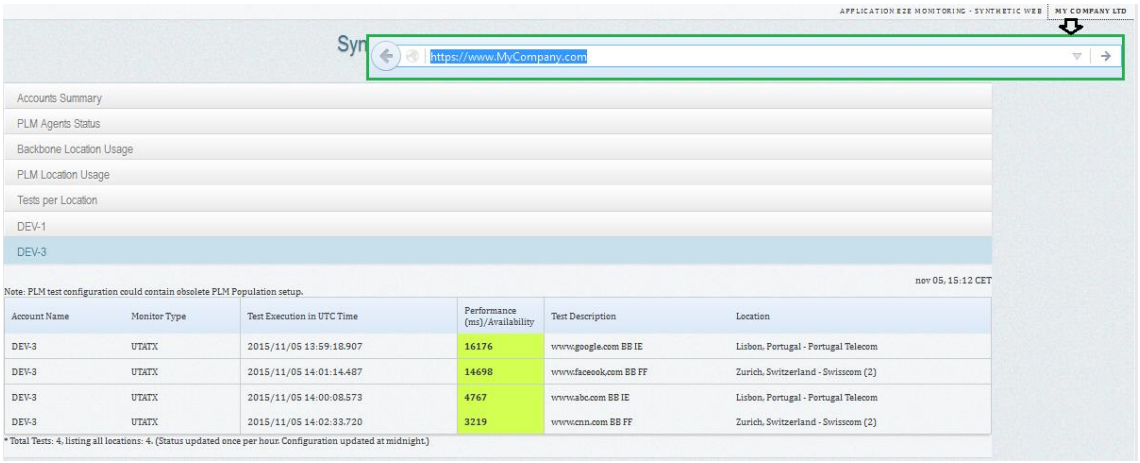
Clicking on the link "APPLICATION E2E MONITORING – SYNTHETIC WEB" opens portal.dynatrace.com



Text "APPLICATION E2E MONITORING – SYNTHETIC WEB " is set in file "ZAPMaaS_param_local.sh", variable: "HTML_HEADER_TITLE" and URL link to open portal.dynatrace.com is set in variable: "HTML_HEADER_TITLE_URL".

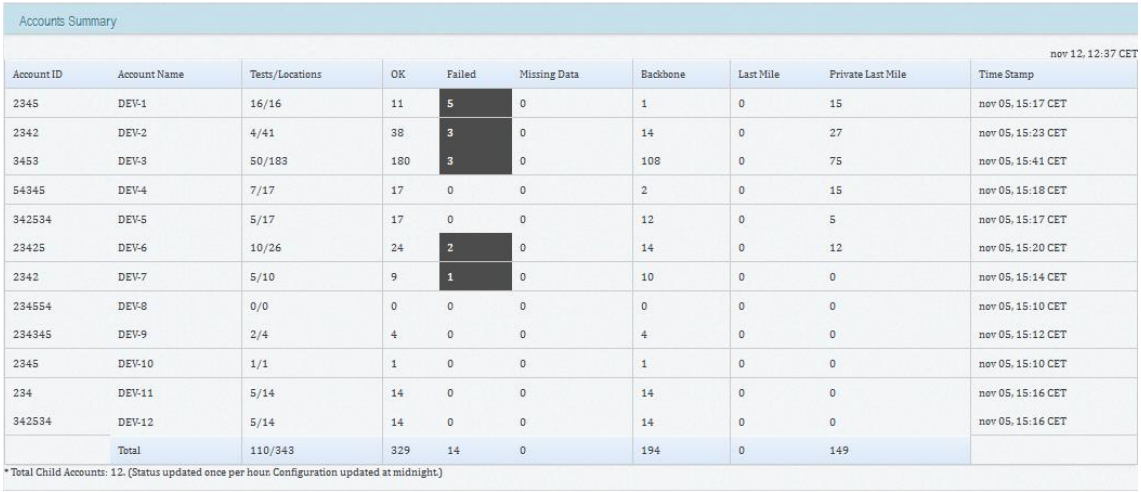
MY COMPANY LTD

Clicking on the link "MY COMPANY LTD", opens MyCompany's URL



Text "MY COMPANY LTD" is set in "ZAPMaaS_param_local.sh", variable: "HTML_HEADER_COMPANY" and URL link is set in variable: "HTML_HEADER_COMPANY_URL".

Accounts Summary



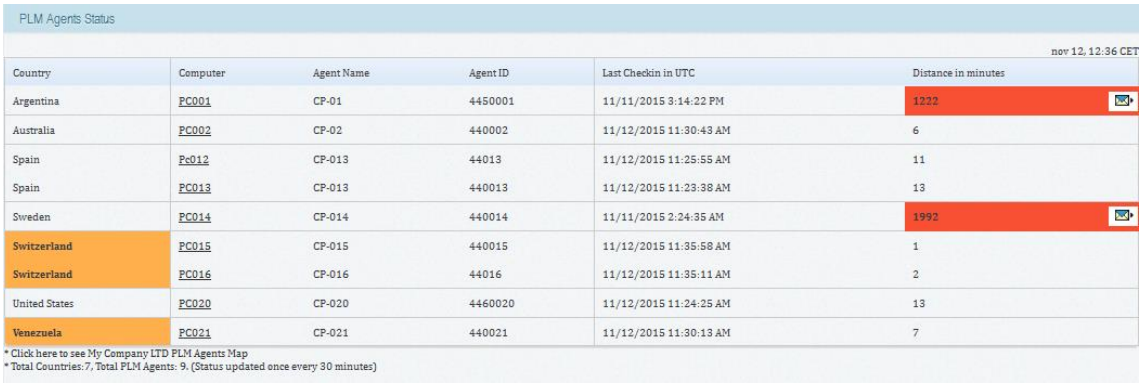
Account ID	Account Name	Tests/Locations	OK	Failed	Missing Data	Backbone	Last Mile	Private Last Mile	Time Stamp
2345	DEV-1	16/16	11	5	0	1	0	15	nov 05, 15:17 CET
2342	DEV-2	4/41	38	3	0	14	0	27	nov 05, 15:23 CET
3453	DEV-3	50/183	180	3	0	108	0	75	nov 05, 15:41 CET
54345	DEV-4	7/17	17	0	0	2	0	15	nov 05, 15:18 CET
342534	DEV-5	5/17	17	0	0	12	0	5	nov 05, 15:17 CET
23425	DEV-6	10/26	24	2	0	14	0	12	nov 05, 15:20 CET
2342	DEV-7	5/10	9	1	0	10	0	0	nov 05, 15:14 CET
234554	DEV-8	0/0	0	0	0	0	0	0	nov 05, 15:10 CET
234345	DEV-9	2/4	4	0	0	4	0	0	nov 05, 15:12 CET
2345	DEV-10	1/1	1	0	0	1	0	0	nov 05, 15:10 CET
234	DEV-11	5/14	14	0	0	14	0	0	nov 05, 15:16 CET
342534	DEV-12	5/14	14	0	0	14	0	0	nov 05, 15:16 CET
	Total	110/343	329	14	0	194	0	149	

* Total Child Accounts: 12. (Status updated once per hour. Configuration updated at midnight.)

All configured Reseller's child accounts are listed in this table, together with number of configured tests/locations per child account and the last known test execution status summary.

Tests which are not performed due to: test being inactivated, configured node gone inactive, etc, will be removed from the ARD configuration after three days (as set in variable: "DISTANCE_TEST_EXECUTED_FROM_SITE_TO_IGNORE").

Private Last Mile Agents Status



PLM Agents Status

nov 12, 12:36 CET

Country	Computer	Agent Name	Agent ID	Last Checkin in UTC	Distance in minutes
Argentina	PC001	CP-01	4450001	11/11/2015 3:14:22 PM	1222
Australia	PC002	CP-02	440002	11/12/2015 11:30:43 AM	6
Spain	Pc012	CP-013	44013	11/12/2015 11:25:55 AM	11
Spain	PC013	CP-013	440013	11/12/2015 11:23:38 AM	13
Sweden	PC014	CP-014	440014	11/11/2015 2:24:35 AM	1992
Switzerland	PC015	CP-015	440015	11/12/2015 11:35:58 AM	1
Switzerland	PC016	CP-016	44016	11/12/2015 11:35:11 AM	2
United States	PC020	CP-020	4460020	11/12/2015 11:24:25 AM	13
Venezuela	PC021	CP-021	440021	11/12/2015 11:30:13 AM	7

* Click here to see My Company LTD PLM Agents Map
* Total Countries: 7, Total PLM Agents: 9. (Status updated once every 30 minutes)

This table lists status of Private Last Mile agents installed within your company network. Column "Distance in minutes" shows how long from "now", Private Last Mile agent registered a heartbeat with Dynatrace server. If the PLM Agent has not produced a heartbeat within last sixty minutes, as defined in variable "HTML_PLM_CHECKIN_DISTANCE_TO_HIGHLIGHT", dashboard will:

1. Highlight in red column "Distance in minutes" and
2. Envelope Email link will become available for click

It is also possible to manually flag Countries for highlighting (in amber), as defined in pipe separated variable "HTML_PLM_COUNTRY_TO_HIGHLIGHT". This is useful as a reminder when a country action is pending.

Email local Private Last Mile Agent support

Para: local.support.uk@google.com
cc: monitoring@yahoo.com;alan.jack@mycomp.com
cco:
Asunto: PC003

Hello,

The reason for this email is to inform you that we cannot connect to the PLM client installed on computer "PC003".

It seems that this computer is not available since "11 nov 2015, 15:14:22 CET CET".

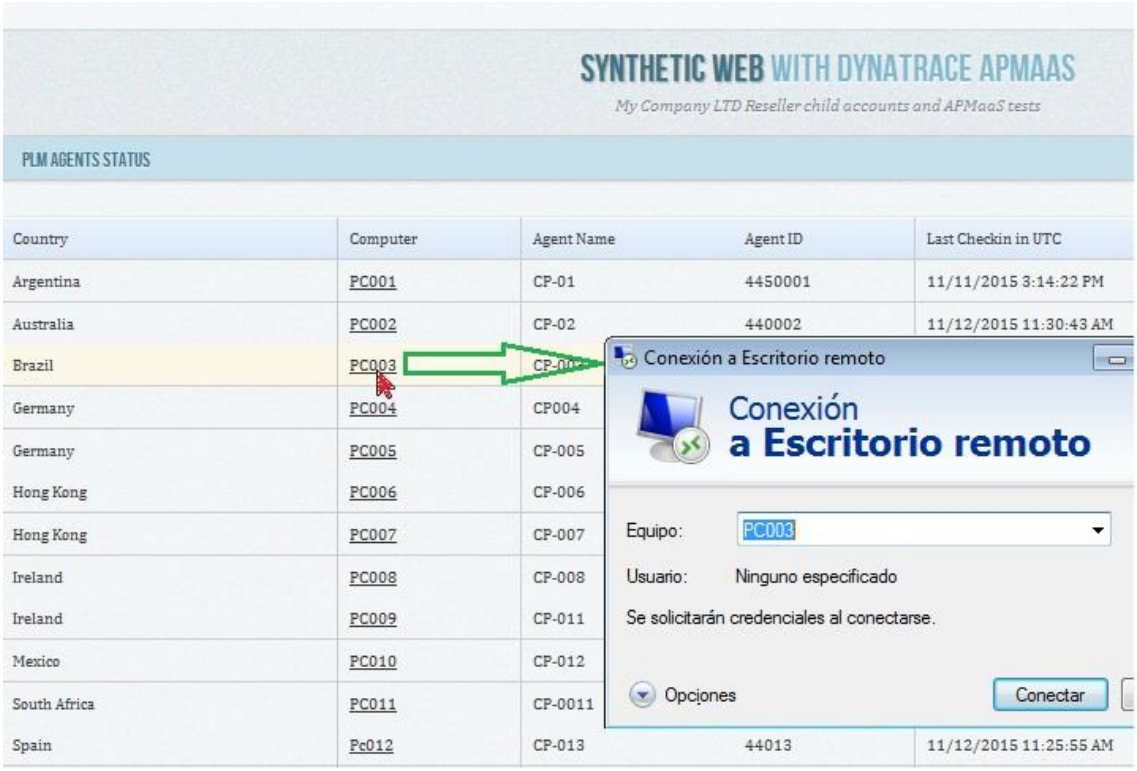
I'd appreciate if you could follow up on this note, and if necessary proceed to re-start it so that the PLM becomes operational again.

We are looking forward to hearing from you.

Regards,

Clicking on the envelope in "Distance in Minutes", an Email will open with standard text template as above, which is set in file: "ZAPMaaS_htmlFunctions.sh ", variable: "HTML_EMAIL".

Remote Desktop Connection



When remote desktop connect (rdp) file exists, clicking on the Computer name, Remote Desktop Connection Manager will open for that computer. Rdp files are located at: “http://www.myCompany.com/rdp/typeComputerNameHere.rdp”.

Rdp file

Each RDP file should be named as “ComputerName.rdp”, where ComputerName is the value you get when at the command prompt you type hostname, and then press Enter. Modify “typeMyIPHere” with real Computer IP.

```
$file = 'screen mode id:i:2
desktopwidth:i:1436
desktopheight:i:925
session bpp:i:16
auto connect:i:1
full address:s:typeMyIPHere
compression:i:1
keyboardhook:i:2
audiomode:i:2
redirectdrives:i:0
redirectprinters:i:0
redirectcomports:i:0
redirectsmartcards:i:0
displayconnectionbar:i:1
alternate shell:s:
shell working directory:s:
disable wallpaper:i:1
disable full window drag:i:1
disable menu anims:i:1
disable themes:i:1
bitmapcachepersistenable:i:1
winposstr:s:0,3,0,0,800,600
redirectclipboard:i:1
redirectposdevices:i:0
drivestoredirect:s:
autoreconnection enabled:i:1
authentication level:i:0
prompt for credentials:i:0
negotiate security layer:i:1
remoteapplicationmode:i:0
allow desktop composition:i:0
allow font smoothing:i:0
disable cursor setting:i:0
domain:s:EZCORP
username:s:W989136
gatewayhostname:s:
gatewayusagemethod:i:0
gatewaycredentialssource:i:4
gatewayprofileusagemethod:i:0';

header("Content-Disposition: attachment; filename=filename.rdp");
header("Content-Type: application/rdp");
print $file;
exit();
```

Backbone Location Usage

BACKBONE LOCATION USAGE

nov 12, 12:37 CET

Location	Total Tests Execution Time in Minutes
London, UK - British Telecom	4.75
Zurich, Switzerland - Swisscom (2)	4.66
London, UK - Verizon	1.38
Los Angeles, CA - Level3	0.92
Kuala Lumpur, Malaysia - Telekom Malaysia	0.80
London, UK - Cable & Wireless	0.79
Chicago, IL - Level3 - IPV6	0.66
Hong Kong - PCCW	0.65

This table lists configured backbone nodes in use and its current total usage in minutes.

Private Last Mile Location Usage

PLM LOCATION USAGE

nov 12, 12:37 CET

Location	Total Tests Execution Time in Minutes
PLM_POPULATION_CH	8.02
PLM_POPULATION_AU	7.09
PLM_POPULATION_ES	4.44
PLM_POPULATION_AR	2.74
PLM_POPULATION_ZA	2.70

This table lists configured private last mile nodes in use and its current total usage in minutes.

Tests per Location

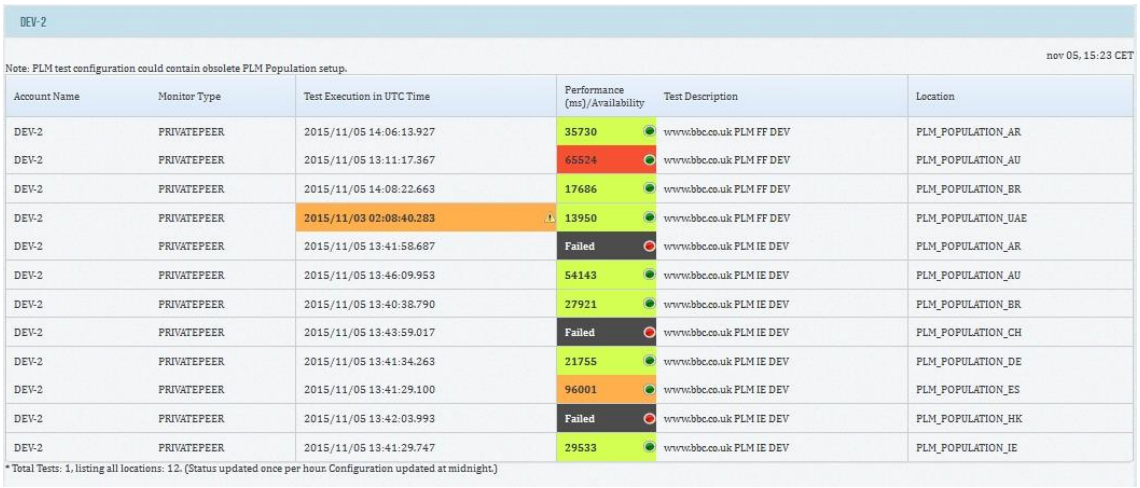
TESTS PER LOCATION

nov 12, 12:37 CET

Location	Account Name	Test
Berlin, Germany - Versatel	DEV-1	www.google.com - IE Agent
Brussels, Belgium - Verizon	DEV-1	www.google.com - FF Agent
Chicago, IL - CenturyLink	DEV-1	www.google.com - Chrome Agent
		www.yahoo.com - IE Agent
		www.facebook.com - FF Agent
		www.instagram.com - IE Agent
	DEV-2	www.google.com - IE Agent
		www.google.com - FF Agent
PLM_POPULATION_AR	DEV-3	www.google.com - IE Agent
		www.google.com - FF Agent
	DEV-1	www.google.com - IE Agent
		www.google.com - FF Agent
		www.facebook.com - IE Agent
		www.yahoo.com - FF Agent
		www.booking.com - FF Agent
	DEV-4	www.google.com - IE Agent
PLM_POPULATION_AU	DEV-5	www.google.com - IE Agent
		www.yahoo.com - IE Agent
	DEV-6	www.google.com - IE Agent
		www.yahoo.com - FF Agent
		www.tech.com - FF Agent
		www.moo.com - FF Agent
		www.look.com - FF Agent

This table lists configured tests in use per child account and nodes.

Child Account Details



DEV-2

nov 05, 15:23 CET

Note: PLM test configuration could contain obsolete PLM Population setup.

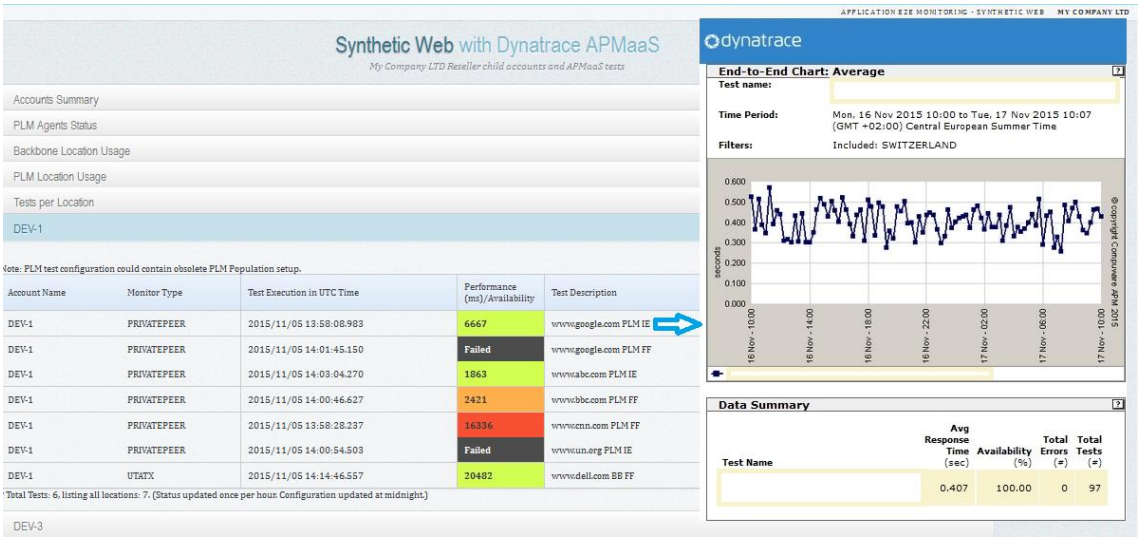
Account Name	Monitor Type	Test Execution in UTC Time	Performance (ms)/Availability	Test Description	Location
DEV-2	PRIVATEPEER	2015/11/05 14:06:13.927	35730	www.bbc.co.uk PLM FF DEV	PLM_POPULATION_AR
DEV-2	PRIVATEPEER	2015/11/05 13:11:17.367	65524	www.bbc.co.uk PLM FF DEV	PLM_POPULATION_AU
DEV-2	PRIVATEPEER	2015/11/05 14:08:22.663	17686	www.bbc.co.uk PLM FF DEV	PLM_POPULATION_BR
DEV-2	PRIVATEPEER	2015/11/03 02:08:40.283	13950	www.bbc.co.uk PLM FF DEV	PLM_POPULATION_UAE
DEV-2	PRIVATEPEER	2015/11/05 13:41:58.687	Failed	www.bbc.co.uk PLM IE DEV	PLM_POPULATION_AR
DEV-2	PRIVATEPEER	2015/11/05 13:46:09.953	54143	www.bbc.co.uk PLM IE DEV	PLM_POPULATION_AU
DEV-2	PRIVATEPEER	2015/11/05 13:40:38.790	27921	www.bbc.co.uk PLM IE DEV	PLM_POPULATION_BR
DEV-2	PRIVATEPEER	2015/11/05 13:43:59.017	Failed	www.bbc.co.uk PLM IE DEV	PLM_POPULATION_CH
DEV-2	PRIVATEPEER	2015/11/05 13:41:34.263	21755	www.bbc.co.uk PLM IE DEV	PLM_POPULATION_DE
DEV-2	PRIVATEPEER	2015/11/05 13:41:29.100	96001	www.bbc.co.uk PLM IE DEV	PLM_POPULATION_ES
DEV-2	PRIVATEPEER	2015/11/05 13:42:03.993	Failed	www.bbc.co.uk PLM IE DEV	PLM_POPULATION_HK
DEV-2	PRIVATEPEER	2015/11/05 13:41:29.747	29533	www.bbc.co.uk PLM IE DEV	PLM_POPULATION_IE

* Total Tests: 1, listing all locations: 12. (Status updated once per hour. Configuration updated at midnight.)

Each Child Account test details are listed in a separate table showing last test execution with color coded availability and performance data.

For data older than four hours, as set in variable "HTML_TEST_EXECUTION_DISTANCE_TO_HIGHLIGHT", column "Test Execution in UTC Time" is highlighted in amber.

Child Account Details Public Chart



Synthetic Web with Dynatrace APMaaS

My Company LTD Reseller child accounts and APMaaS tests

Accounts Summary
PLM Agents Status
Backbone Location Usage
PLM Location Usage
Tests per Location
DEV-1

Note: PLM test configuration could contain obsolete PLM Population setup.

Account Name	Monitor Type	Test Execution in UTC Time	Performance (ms)/Availability	Test Description
DEV-1	PRIVATEPEER	2015/11/05 13:58:08.983	6667	www.google.com PLM IE
DEV-1	PRIVATEPEER	2015/11/05 14:01:45.150	Failed	www.google.com PLM FF
DEV-1	PRIVATEPEER	2015/11/05 14:03:04.270	1863	www.abc.com PLM IE
DEV-1	PRIVATEPEER	2015/11/05 14:00:46.627	2421	www.bbc.com PLM FF
DEV-1	PRIVATEPEER	2015/11/05 13:58:28.237	16336	www.cnn.com PLM FF
DEV-1	PRIVATEPEER	2015/11/05 14:00:54.503	Failed	www.un.org PLM IE
DEV-1	UTATX	2015/11/05 14:14:46.557	20482	www.dell.com BB FF

Total Tests: 6, listing all locations: 7. (Status updated once per hour. Configuration updated at midnight.)

DEV-3

dynatrace

End-to-End Chart: Average

Test name:

Time Period: Mon, 16 Nov 2015 10:00 to Tue, 17 Nov 2015 10:07 (GMT +02:00) Central European Summer Time

Filters: Included: SWITZERLAND

Data Summary

Test Name	Avg Response Time (sec)	Availability (%)	Total Errors (#)	Total Tests (#)
	0.407	100.00	0	97

It is possible to prepare Dynatrace Standard Public Charts and store it's URLS in remote desktop connect files "...config\Charts\APMaaS.chart.cfg".

```
AccountID|AccountName|TestType|TestID|TestName|NodeID|NodeName|PublicChartURL
---------- -------------------- ---------- ---------- ---------- ---------- ---------- ----------
227|DEV-1|PRIVATEPEER|740|APP44 www.trufa.com PLM IE DEV-
1|283|PLMP_USA|http://www.gomeznetworks.com/LastMile/reloadPage.asp?crypt=%7F%B3%AC%B2%C8%96%86u
```

If GomeNetworks URL exists, clicking on the column "Test Description", Dynatrace Public Chart will open for the test.

Note: Previously, it is necessary to create a Dynatrace Public Chart for each test and node for the last 24h period.

Downloading and Installing the APMaaS Reseller Dashboard (ARD)

The APMaaS Reseller Dashboard is available in the Dynatrace Forums page of the Dynatrace Portal (https://answers.dynatrace.com/spaces/152/index.html), with direct links at:

- https://answers.dynatrace.com/questions/139897/dynatrace-web-synthetic-monitoring-apmaas-reseller.html
- https://github.com/pebla/ARD/tree/master/dynaTraceArd

ARD main goal is to produce and keep updated one dashboard http page showing current Dynatrace APMaaS installation for selected logins, and its status.

ARD consists of Linux Bash executables, configuration and other scripts.

It was developed and tested on Cygwin 64bit version 2.850.

For its proper functioning, requires:

1. Linux operating system (for example: Cygwin) with working:
    a. bash 4
    b. awk, basename, cat, curl, cut, date, echo, egrep, find, grep, head, kill, mkdir, mv, printf, read, rm, sed, sleep, sort, touch
2. Linux user
3. Local web server (for example: Apache)
4. Write access to the web server's htdocs directory for the Linux user
5. Task Scheduler (for example: Windows AT or cron)
6. Internet access (with or without proxy)

Prerequisites:

There are few things to get right before starting.

portal.dynatrace.com requisites

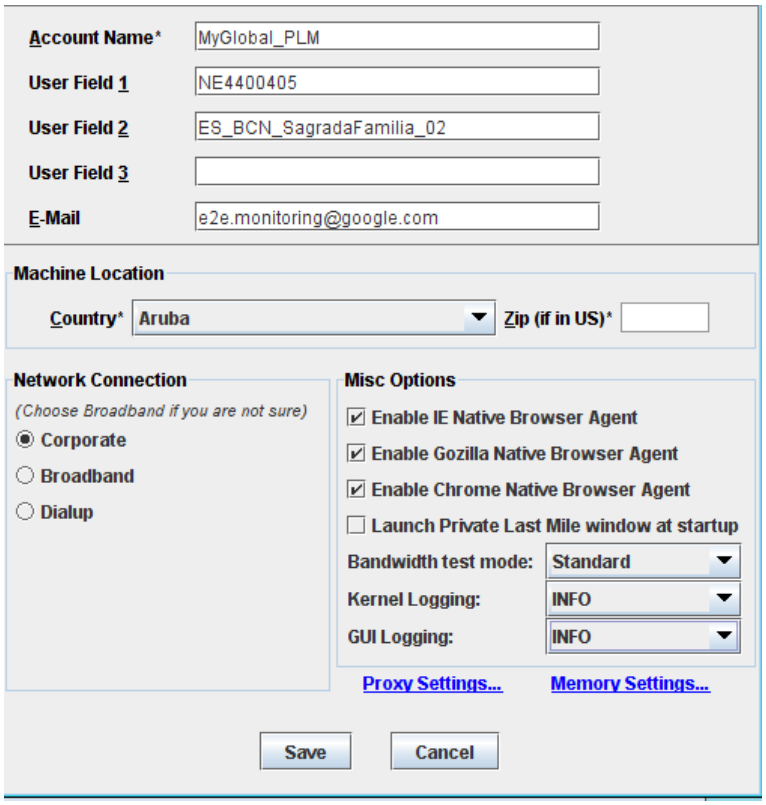
1. For Dynatrace Resellers: If you have multiple Dynatrace APMaaS child accounts and you wish to share your PLM Agents across all of your APMaaS child accounts you will have to:
    1.1. Not create APMaaS child account PLM Networks yourself
    1.2. Ask Dynatrace support to create one common **PLM Network** for your Reseller and share that **PLM Network** across all of your *APMaaS child accounts*. *This is one off task*
    1.3. Create a new *APMaaS child account*
    1.4. To add this new APMaaS child account to the existing Reseller's PLM network, ask Dynatrace support not to create a new PLM Network but to add your newly created APMaaS child account to your existing Reseller PLM Network,

created above in the item 1.2 *Repeat this every time when adding a new APMaaS child account*.

2. If you do not have a Dynatrace Reseller and have no multiple APMaaS child accounts, ask Dynatrace support to create one PLM Network for you.
3. In Dynatrace Portal, follow your login naming convention to create a read-only WebServices API login. For example if:
   3.1. APMaaS (child) account name is: "**FooMontgomery**"
   3.2. Read-only WebServices API login could be named as: "**Foo**.API"
4. Manually login with your API account at least once into the newly created APMaaS (child) account. There might be few steps to fill out on the first login attempt
5. Test WebServices API, for example adjust for your credentials and then copy, paste and execute following URL from your web browser:
   5.1. https://gpn.webservice.gomez.com/AccountManagementWS_20/AccountManagementWS.asmx/GetAccountConfigPackage?sUsername=**typeYourLoginWebServicesAPILoginHere**&sPassword=**typeYourPasswordHere**
   5.2. The above web request should **not** return "<eStatus>STATUS_FAILED</eStatus>", if it does you cannot proceed but must:
      5.2.1. Check your login/password is correct
      5.2.2. Manually login into http://portal.dynatrace.com with using the same WebServices API login credentials as in test 5.1
      5.2.3. Check with Dynatrace support and make sure your Dynatrace WebServices API is enabled for the newly created APMaaS (child) account

PLM Agent configuration

Private Last Mile agent has its own configuration, following is the best practice:



1. "User Field 1" in the PLM Agent Preferences must be the same as the PLM computer name
2. "User Field 2" in the PLM Agent Preferences should identify PLM Agent location, for example: "ES_BCN_SagradaFamilia_02" would indicate:
   2.1. PLM Agent is from Spain_Barcelona
   2.2. From suburb Sagrada_Familia
   2.3. Indicates this is second agent in this location
3. By default, Dynatrace PLM Agent will auto identify its Machine Location Country and Zip code using its source IP address. If you get to internet from a proxy, Dynatrace auto identity is not what you want. Ask Dynatrace Support to modify your account to allow PLM Agent to provide its Country and Zip code details as input source to the PLM Agent Machine Location.
4. For the rest of the PLM Agent configuration, follow Dynatrace Private Last Mile Administration Guide.

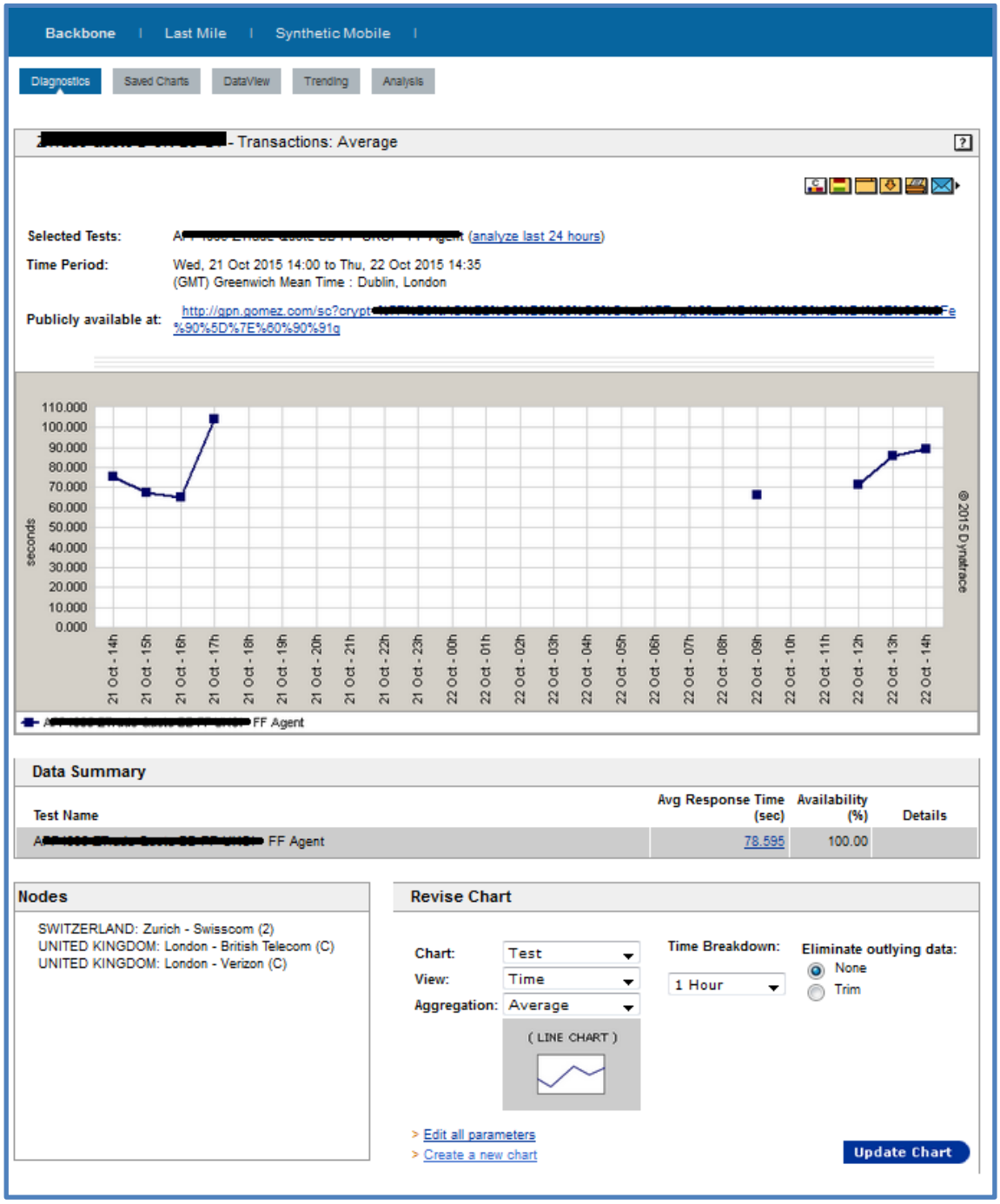
Scripts to customize

1. "${HOME}/dynaTrace/bin/ZAPMaaS_param_local.sh", modify this script to adjust for your specific installation
2. "${HOME}/dynaTrace/config/PLM/Login/.proxy_ip_port", contains one line with pipe separated "Proxy IP|Proxy Port" identifying proxy server to use to get to internet. Leave this file blank in case you have direct internet access

3. "${HOME}/dynaTrace/config/PLM/Login/.passwd_proxy", contains one line with pipe separated "Domain|Login|Password" which is used for proxy authentication. Leave this file blank if your proxy requires no authentication or you have no proxy
4. "${HOME}/dynaTrace/config/PLM/Login/.passwd_compuware", contains one line per existing WebServices APMaaS child account credentials. Logins correspond to Dynatrace WebServices API and are pipe separated as "Login|Password". These credentials are used to login into Dynatrace via WebServices and to download APMaaS configuration and test performance data for the APMaaS child accounts
5. Optional: "${HOME}/dynaTrace/config/PLM/Email/*", create two files for every existing PLM agent with a list of comma separated Email addresses of your local PLM company support. These Email addresses will be placed in "TO" and "CC" when ARD detects a PLM Agent which is not sending heartbeat to Dynatrace Gomez PLM Network. File naming convention is as:
   5.1. "email.TO.${PLMComputerName}",
   5.2. "email.CC.${PLMComputerName}"
   Replace ${PLMComputerName} with your PLM Agent Computer name, for example, if PLM Agent computer name is BCN095, create two files: "email.TO.BCN095" and "email.CC.BCN095"

   If Dynatrace doesn't receive PLM Agent heartbeat within one hour [defined by configuration parameters ${HTML_PLM_CHECKIN_DISTANCE_TO_HIGHLIGHT}], ARD will color code that PLM Agent in red [${HTML_PLM_CHECKIN_DISTANCE_TO_HIGHLIGHT_COLOR}] and will enable a clickable icon in form of an envelope, which when clicked will create an Email to your local PLM computer company support contacts, asking for support.

6. Optional: "${HOME}/dynaTrace/config/Charts/APMaaS.chart.cfg", contains one line per test/location in format:
   "accountID|accountName|testType|testID|testName|locationID|locationName|URLWithPubliclyAvailableChart".
   Having APMaaS.chart.cfg up to date lets you view the latest test APMaaS collected performance data straight from ARD without logging into Dynatrace. To get URL with publicly available chart, go to http://www.gomeznetworks.com and create a Chart, save it and open the saves Chart. Copy "Publicly available at" into APMaaS.chart.cfg


Backbone | Last Mile | Synthetic Mobile |
Diagnostics
Saved Charts
DataView
Trending
Analysis
[redacted] - Transactions: Average
Selected Tests: [redacted] (analyze last 24 hours)
Time Period: Wed, 21 Oct 2015 14:00 to Thu, 22 Oct 2015 14:35
(GMT) Greenwich Mean Time : Dublin, London
Publicly available at: http://gpn.gomez.com/sc?crypt[redacted]Fe%90%5D%7E%60%90%91g
110.000
100.000
90.000
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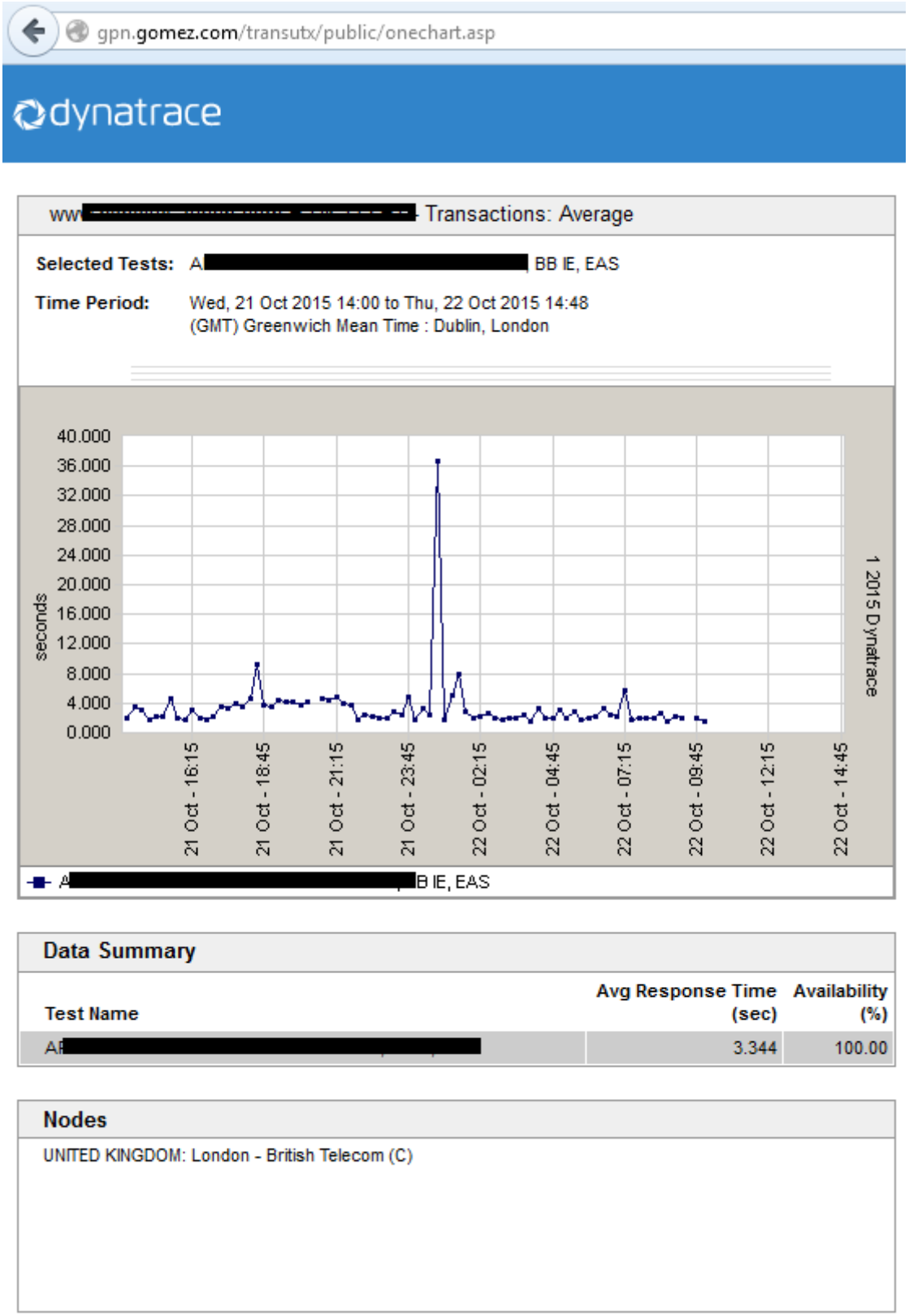
22 Oct - 11h
22 Oct - 12h
22 Oct - 13h
22 Oct - 14h
© 2015 Dynatrace
[redacted] FF Agent
Data Summary
Test Name
Avg Response Time (sec)
Availability (%)
Details
[redacted] FF Agent
78.595
100.00
Nodes
SWITZERLAND: Zurich - Swisscom (2)
UNITED KINGDOM: London - British Telecom (C)
UNITED KINGDOM: London - Verizon (C)
Revise Chart
Chart: Test
View: Time
Aggregation: Average
(LINE CHART)
Time Breakdown:
1 Hour
Eliminate outlying data:
None
Trim
> Edit all parameters
> Create a new chart
Update Chart

Clicking on the “Publicly available at” URL link, you would get something like:



First run

After setting first four mandatory items in “Scripts to customize”, run ARD manually for the first time. Bash source in “../dynaTrace/bin/ZAPMaaS_Functions.sh” and manually run “init APILogin”, which will create initial structure.

1. Open a terminal window
2. bash
3. cd ${HOME}/dynaTrace/bin
4. . ZAPMaaS_Functions.sh
5. init typeAPILoginHere

Note: API Login corresponds to the first row first and first column in file "${HOME}/dynaTrace/config/Login/.passwd_compuware"

How to start ARD

Create a scheduled task to execute every fifteen minutes, 24x7 at: 0, 15, 30 and 45 minute of hour.

Run command from your working directory, which in case of Cygwin could be: "**c:\cygwin64\bin**"

Run following command: **c:\cygwin64\bin\bash.exe**

With arguments: **-l -c "/home/pa045800/dynaTrace/cron/CronJob.sh >> /tmp/CronJob.log 2>&1; exit"**

Enable: "Run whether user is logged on or not" and "Do not store password..."

ZAPMaaS_param.sh

Home directory for ARD is set to:

homeDir="${HOME}/dynaTrace"

If your home directory is different, adjust it in ZAPMaaS_param.sh

Naming conventions

WebService API Login

Dynatrace login should be of type "Prefix+Dot+LoginName":

1. Prefix could be a short name of your APMaaS child account. For example, if the account name is: "FooMontgomery", you could prefix all your logins with "Foo" for the account name
2. Followed by a dot
3. Followed by a Login name
4. Resulting in a Login: "Foo.API"
5. All logins should have the same prefix, for example ending in ".API" as above

PLM Agent local company support Email addresses

PLM Agent local company support Email addresses should be stored in two files per existing PLM Agent, of type:

1. "email.TO.${PLMComputerName}"
2. "email.CC.${PLMComputerName}"

The only variable is the PLM Computer Name. If that is "BCN095", file should carry name of "email.TO.BCN095".

Acronyms

PLM - Private Last Mile

APMaaS - Application Performance Management as a Service

ARD - APMaaS Reseller Dashboard