

Enterprise Password Manager

Gopi Krishna Ganti

User Guide

Disclaimer

Information in this document is subject to change without notice. Companies, names, and data used in examples herein are fictitious unless otherwise noted. No part of this document may be reproduced or transmitted in any form or by any means, electronic or mechanical, for any purpose, without the express written permission of the author.

Apple, Android, Oracle, Microsoft are the trademarks of their respective organizations.

Table of Contents

1	INTRODUCTION	3
1.1	AUDIENCE	3
1.2	WHAT IS CR?	3
2	ABBREVIATION	3
3	SIGN IN EPM	4
4	USER REGISTRATION	6
5	USER SELF SERVICE	9
5.1	LIST OF ALL SELF SERVICE USER ACTIVITIES	9
5.1.1	<i>Password related activities</i>	9
5.1.2	<i>Other activities</i>	9
5.2	CHANGE PASSWORD	9
5.3	MODIFY/UPDATE CHALLENGE/RESPONSE	10
5.4	VIEW/EDIT PROFILE	11
5.5	MY ACTIVITIES	11
5.5.1	<i>Column Chart</i>	11
5.5.2	<i>Pie Chart</i>	12
5.5.3	<i>Table View</i>	13
6	FORGOT PASSWORD	14
7	FORGOT USERNAME	17
8	EMAIL TEMPLATES	18
9	LIST OF ALL FIGURES	19



1 Introduction

EPM is an easy to use user self-service web application to manage your AD/ Enterprise Domain password without the need to use the services of Helpdesk. Managing password here implies having a safe way to store related information and retrieve it using that related information. This password related information is called CR (Challenge/Response). Using CR a user can easily reset forgotten password. EPM has been designed to encrypt all sensitive information like password and CR. The User Guide helps you in understanding the features and the how-to of each feature.

1.1 Audience

This manual is targeted for users who would be using the application for managing their password. This user would be the Enterprise User.

1.2 What is CR?

CR or Challenge/Response is combination of set of questions and the corresponding answers. These questions are personal questions, which would have a very much un-guessable answer. CR is a very effective way to keep your password safe as well as retrieve if forgotten.

In EPM this user question is termed as Challenge and the corresponding answer as Response. Henceforth we would refer to Challenge/Response as CR.

When a user forgets domain password, all user has to do is go to the “Forgot Password” page, answer the pre-configured CR and reset the password. For this feature to work, user needs to be registered in EPM.

2 Abbreviation

AD	Active Directory
LDAP	Lightweight Directory Access Protocol
EPM	Enterprise Password Manager
URL	Uniform Resource Locator (web server address typed in a browser)
CR	Challenge/Response
IP	Internet Protocol



3 Sign In EPM

EPM can be accessed by the URL <http://<hostname>:8080/EPM> where hostname can be something like `epm.mydomain.com`, host IP can be `192.168.2.99`. Please get the correct URL from your administrator or helpdesk.

To access EPM enter the URL provided by your administrator or helpdesk in any web browser of your choice. The following screen would be displayed. Sign in screen has three fields. Table below describes the same.

Field Name	Field Description
Username	Your AD saMAccountName or LDAP userid.
Password	Your password
Domain	Choose domain from the drop down.

SIGN IN

Username
eg. myusername

Password
eg. P9e1@7K3

Domain
- Select Domain -

Go

YourLogo

Forgot Password?

Figure 1 - Sign in



After entering correct values, hit “Go” button. This would show up your Home Page as shown in Figure 2, but if this is first time sign in through EPM, User Registration page is shown to the user. The registration process is described in detail in section 4 User Registration.



⇒ If AD/LDAP has option of “User must change password at next logon” checked, then first time sign in through EPM would show an error of “Invalid Credentials” as this version of EPM does not support first time sign in password change. Hence if a new AD/LDAP user is created, that user account should be signed through some other application or web portal to set first time password.

Enterprise Password Manager

Thu May 23 2013 18:08:47 GMT+0530 (IST)

Welcome Nick Patterson Signout

Domain : EPMDOM.COM

Home

My Activities

Self Service

Sign In Info
You are currently logged in with below mentioned roles

- Enterprise User

Here is a list of operations that can be performed by you as

Enterprise User

- View your activities
- View/Edit your profile details
- Change your AD/LDAP password
- Modify/Update challenges and responses

Home

Last Activities

First time login. No activities.

Copyright © 2013 New Org. Inc. All rights reserved.

Figure 2 – User Home Page: First Sign in



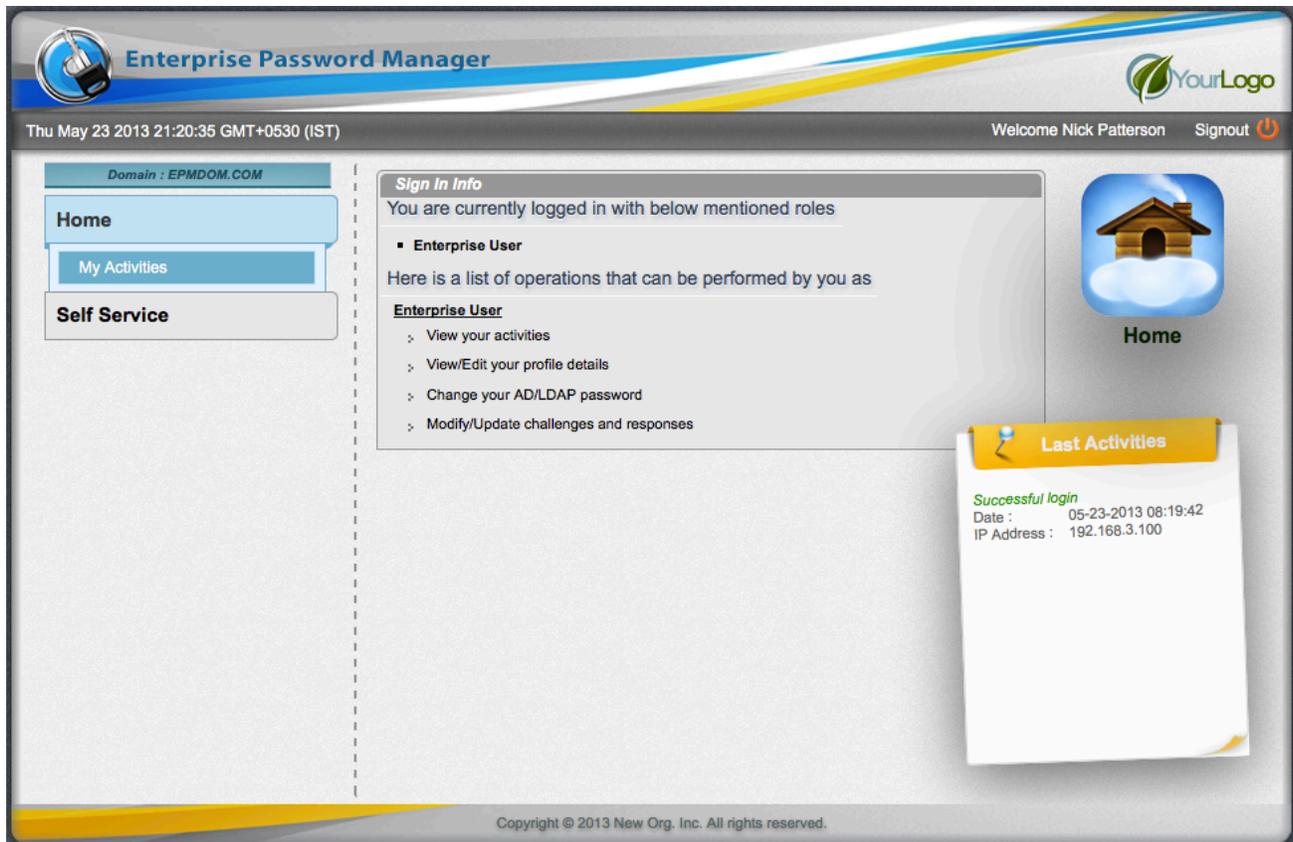


Figure 3 - User Home Page: Next Sign in

4 User Registration

User registration is a two-step process.

1. First user provides personal details. EPM firstly fetches these values from AD/LDAP. If the values fetched are empty, then user needs to enter appropriate values. Non-required fields can be left empty to complete registration faster, though it not recommended leaving any field empty. Figure 4 shows the user details form. Required fields are labeled with a *.



Info

- To choose your photo, click "Select Photo". Click on "Upload" button to upload to server.
- Uploaded photo would not be updated in your profile until "Save" is clicked
- Your photo data size is limited to
 - minimum : 10KB
 - maximum : 100KB
- Your photo pixel size is
 - width : 160 pixels
 - height : 180 pixels

* - Required field, please provide appropriate information.

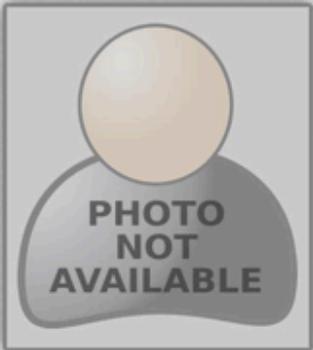


Register User

Select Photo

Upload

First Name*	<input type="text" value="Nick"/>
Middle Initials	<input type="text"/>
Last Name*	<input type="text" value="Patterson"/>
Email Address*	<input type="text"/>
Address	<input type="text"/>
City	<input type="text"/>
State/Province	<input type="text"/>
Country/Region	<input type="text"/>
Zip/Postal code	<input type="text"/>
Mobile	<input type="text"/>



My Profile Picture

Figure 4 - User Registration step 1

2. Secondly user provides CR. The questions are predefined and fetched randomly. You can refresh the page to fetch a different set of questions. FIVE challenge questions are displayed of which at least THREE challenge questions are to be filled in. Figure 5 shows the same.



Info - Challenge / Response

- Challenges are a set of questions and responses are the corresponding answers to these challenges.
- These challenges and responses would be required to be answered by you when you forget your current password and need to reset or change the password.
- Please provide your new responses to the challenges previously configured by you.
- Challenge / Responses are required to complete the registration process.
- Minimum number of questions to be answered is 3.
- Minimum length of each answer is 3 characters.

No.	Challenge / Question	Response / Answer
1	What is your Date of Birth?	<input type="text"/>
2	What is your Pet's Name?	<input type="text"/>
3	What is your Mother's Maiden Name?	<input type="text"/>
4	Who is your Favourite Actor?	<input type="text"/>
5	Which is your Place of Birth?	<input type="text"/>

To complete your registration click here Please provide minimum 3 challenge / responses.

Figure 5 - User Registration step 2

3. Upon providing minimum of three challenge(s)/response(s), and clicking “Save” button displays the message as in Figure 6 below, which User Registration success message.

User Registration Successful

 User Registration completed successfully.
Thank You!!
Please click "OK" to goto your "Home" page.

Figure 6 - User Registration success



5 User Self Service

This section describes the operations/activities that can be performed by role EPM user.

5.1 List of all Self Service User activities

5.1.1 Password related activities

- Change password
- Modify/Update Challenge/Response

5.1.2 Other activities

- View/Edit profile
- My activities

5.2 Change Password

Click on “Change Password” menu item of “Self Service” of left navigation menu. As shown in Figure 7, firstly you would presented a page to validate current password. On clicking “Continue”, your current password would be validated and you would be redirected to “Change Password” page, as shown in Figure 8.

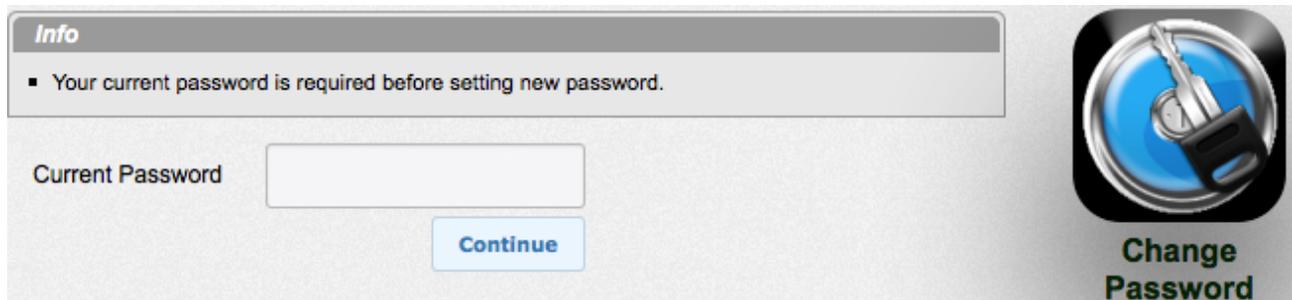


Figure 7 - Change Password: Current Password



Info

- These challenges and responses would be required to be answered by you when you forget your current password and need to reset or change the password.
- Please provide your new responses to the challenges previously configured by you.
- Minimum length of each answer is 3 characters.



Challenge / Response

No.	Challenge / Question	Response / Answer
1	What is your Date of Birth?	<input style="width: 95%;" type="text"/>
2	What is your Mother's Maiden Name?	<input style="width: 95%;" type="text"/>
3	Which is your Place of Birth?	<input style="width: 95%;" type="text"/>

Cancel
Save

Figure 10 - Challenge/Response: Modify/Update



⇒ Only the CR set during “User Registration” process are displayed. Current version of EPM does not support modifying your CR to new values. Only pre-set CR values can be updated with new values.

5.4 View/Edit Profile

As configured during User Registration process, all personal data is displayed. You can modify or keep it same and update. Screen is the same as in Figure 4 - User Registration step 1.

5.5 My Activities

This section also displays data in three forms, Pie chart, and Column chart with Table view as well.

5.5.1 Column Chart

This chart displays total count of each activity for each day as Stacked Column chart. As shown below in Figure 11, each day data is displayed in stacked column form with each color representing different activity.

In this chart you can zoom in to get more granular data for a smaller date range when the data gets larger by the day and zoom out to get data for larger date range. This can be done using a zoom slider. Legend of the chart defines each color's activity type.



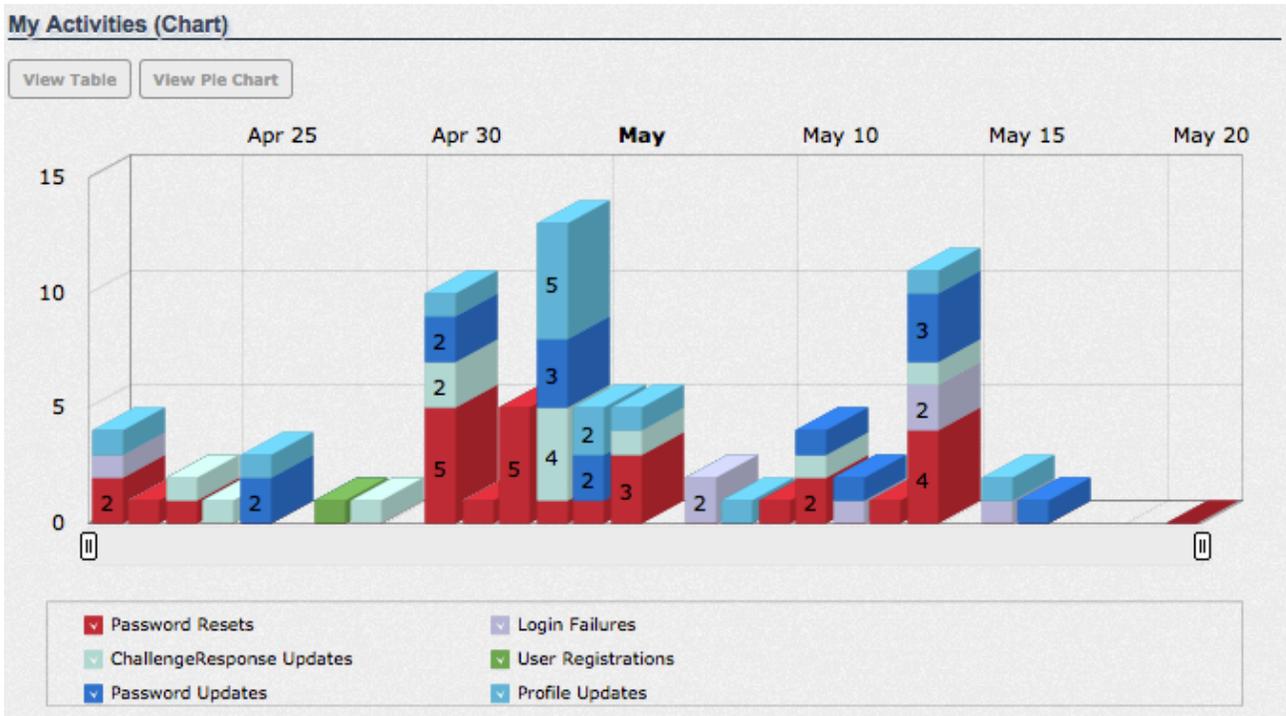


Figure 11 – My Activities: Stacked column chart

5.5.2 Pie Chart

This chart displays data in percentage of each activity type by current signed in user, as shown by Figure 12.

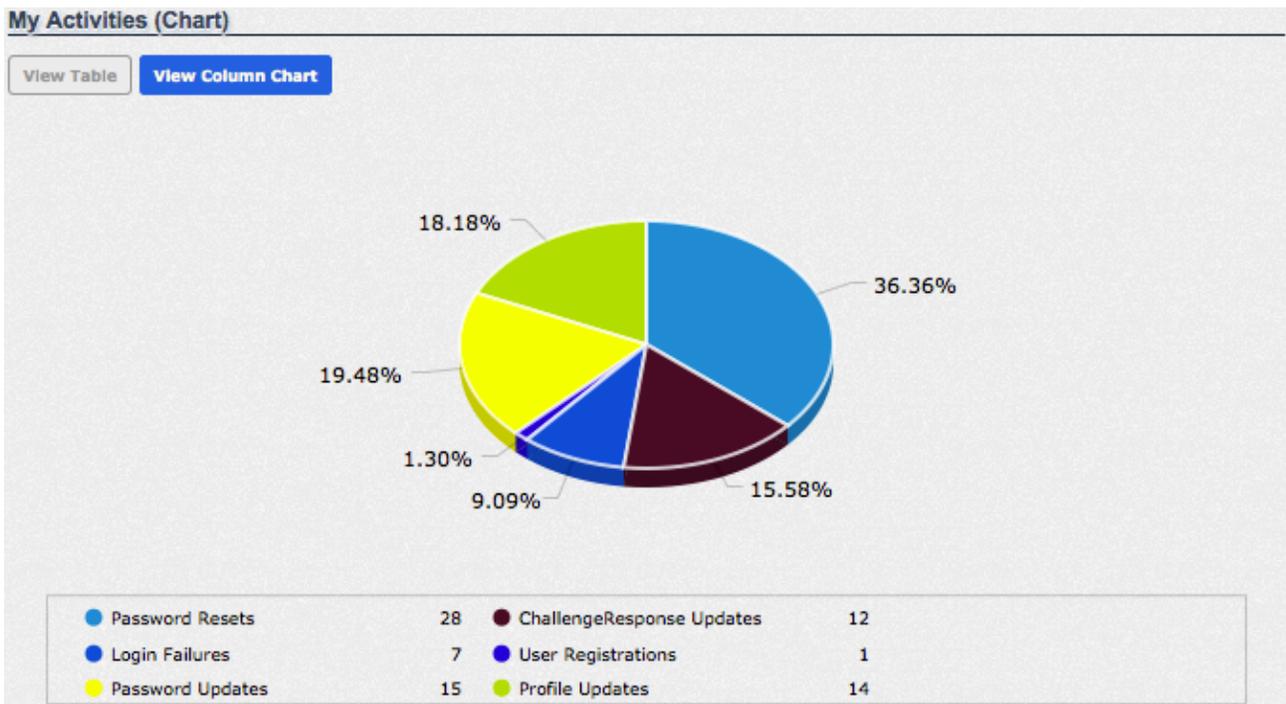


Figure 12 - My Activities: Pie chart



5.5.3 Table View

All user activities data can be viewed in paginated table form as well. This table displays data in more detail, like for each activity action taken by whom, for whom from which IP address, on which date etc. as shown in Figure 13 below.

My Activities (Table)

View Column Chart View Pie Chart

All my activities for current domain

ID	User ID	Activity Type	Date	From IP	Description	By	By Role
1	gopig	Login Success	05-21-2013 07:50:08	127.0.0.1	Logged in success	gopig	ROLE_USER
2	gopig	Password Updat	05-17-2013 09:18:49	127.0.0.1	Change Password	gopig	ROLE_USER
3	gopig	Login Failure	05-16-2013 07:26:37	127.0.0.1	Authentication fail	gopig	ROLE_USER
4	gopig	Profile Update	05-16-2013 03:30:26	127.0.0.1	Profile updation su	gopig	ROLE_USER
5	gopig	Password Reset	05-14-2013 10:30:03	127.0.0.1	Reset Password su	gopig	ROLE_USER
6	gopig	ChallengeRespo	05-14-2013 08:16:00	127.0.0.1	Challenge/Respon	gopig	ROLE_USER
7	gopig	Profile Update	05-14-2013 08:15:21	127.0.0.1	Profile updation su	gopig	ROLE_USER
8	gopig	Password Reset	05-14-2013 03:25:01	127.0.0.1	Reset Password su	gopig	ROLE_USER

Page 1 of 10 View 1 - 8 of 78

Figure 13 - My Activities: Table view



6 Forgot Password

Click “Forgot Password” to retrieve a forgotten password. The following page as shown in Figure 14 would be displayed.

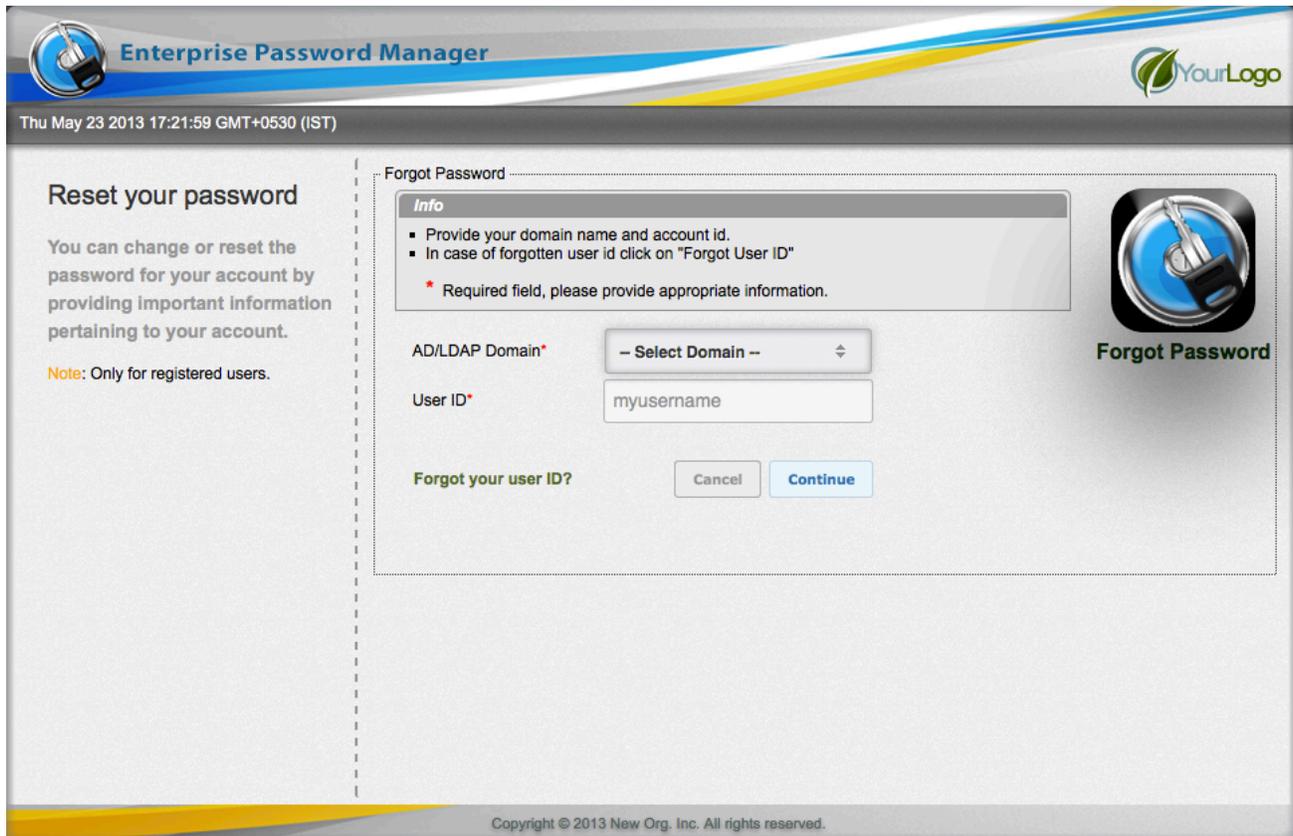


Figure 14 - Forgot Password

- Provide your details as explained in the table below

Field Name	Field Description
Username	Your AD saMAccountName or LDAP userid.
Domain	Choose domain from the drop down.

- Click “Continue”, the screen displayed would be as shown below in Figure 15.



Info - Forgot Password

- Challenges are a set of questions and responses are the corresponding answers to these challenges.
- At least 2 correct Challenge / Responses are required to reset password for your account.



**Validate
Challenge /
Response**

AD/LDAP Domain

Username

No.	Challenge / Question	Response / Answer
1	What is your Date of Birth?	<input style="width: 100%;" type="text"/>
2	What is your Mother's Maiden Name?	<input style="width: 100%;" type="text"/>
3	Which is your Place of Birth?	<input style="width: 100%;" type="text"/>

Figure 15 - Forgot Password: Validate CR



⇒ If the username entered has not registered yet, Figure 16 as shown below would be displayed.

Info - Forgot Password

- Challenges are a set of questions and responses are the corresponding answers to these challenges.
- At least 2 correct Challenge / Responses are required to reset password for your account.



**Validate
Challenge /
Response**

AD/LDAP Domain

Username

We are sorry, you have not configured Challenge(s)/Response(s) for your account.
Please configure the same to use this feature.
To reset your forgotten password please contact Helpdesk.

Figure 16 - Forgot Password: CR not available

- This message shows up because the chosen user has not yet registered into EPM. To register follow the steps described in section 4 User Registration



- After validation of your challenge/response, password reset form is displayed as in Figure 17 below.

Figure 17 - Reset Password

- Choose the type of password reset. Options are “Generate Password” or “Provide Password”.
- Generate Password displays the screen as shown in Figure 18. If here you choose to click “Reset Password”, as random password based on AD/LDAP complexity is generated and sent as email to your registered email id.

Figure 18 - Reset Password: Generate Password



Figure 19 - Reset Password: Provide Password

- Provide Password display screen as shown in Figure 19. Here you can provide password of your choice. Password complexity meter below “New Password” input field display the level of complexity of the password being typed in. If all color bars are shown from green to red color, the complexity of the password is very high which means it cannot be easily cracked by anyone. If the bars are colored anywhere in between means lesser complex.

7 Forgot Username

If you ever forget your username, click on “Forgot your username” link on “Forgot Password” page. Figure 20 below is displayed. Choose your domain and provide your EPM registered email id. Your username is fetched from the database based on the email id and domain provided (done during User registration process).

Figure 20 - Forgot Username





⇒ Email id for a particular domain is assumed to be unique meaning, no two users of the same domain can have same email id. Uniqueness of email id is not verified in the current version of EPM during User Registration.

8 Email Templates

Here is the email template for Forgot Password. Similar for all other mails sent by EPM.

Subject Password reset message for user epmadm0404, domain pmpnewdom.com



Figure 21 - Reset Password Email Template



9 List of all figures

FIGURE 1 - SIGN IN	4
FIGURE 2 – USER HOME PAGE: FIRST SIGN IN	5
FIGURE 3 - USER HOME PAGE: NEXT SIGN IN	6
FIGURE 4 - USER REGISTRATION STEP 1	7
FIGURE 5 - USER REGISTRATION STEP 2	8
FIGURE 6 - USER REGISTRATION SUCCESS	8
FIGURE 7 - CHANGE PASSWORD: CURRENT PASSWORD	9
FIGURE 8 - CHANGE PASSWORD: NEW PASSWORD.....	10
FIGURE 9 – CHALLENGE/RESPONSE: CURRENT PASSWORD.....	10
FIGURE 10 - CHALLENGE/RESPONSE: MODIFY/UPDATE	11
FIGURE 11 – MY ACTIVITIES: STACKED COLUMN CHART	12
FIGURE 12 - MY ACTIVITIES: PIE CHART	12
FIGURE 13 - MY ACTIVITIES: TABLE VIEW	13
FIGURE 14 - FORGOT PASSWORD.....	14
FIGURE 15 - FORGOT PASSWORD: VALIDATE CR.....	15
FIGURE 16 - FORGOT PASSWORD: CR NOT AVAILABLE	15
FIGURE 17 - RESET PASSWORD.....	16
FIGURE 18 - RESET PASSWORD: GENERATE PASSWORD.....	16
FIGURE 19 - RESET PASSWORD: PROVIDE PASSWORD	17
FIGURE 20 - FORGOT USERNAME.....	17
FIGURE 21 - RESET PASSWORD EMAIL TEMPLATE.....	18

