Foreman - Feature #20037

Add two factor authentication

06/16/2017 10:46 AM - Timo Goebel

Status:	New		
Priority:	Normal		
Assignee:			
Category:	Authentication		
Target version:			
Difficulty:		**Fixed in Releases:**	
Triaged:	No	**Found in Releases:**	
Bugzilla link:		**Red Hat JIRA:**	
Pull request:			

Description

To increase security, it would be great to allow two factor authentication via TOTP (RFC 6238). A user with 2FA enable needs to provide a one time token as a second login step.

In the profile, a user should be able to enable 2FA. For every user a secret key should be generated and provided via QR code. The user can then scan the QR code via his mobile phone (e.g. Google Authenticator app). The app then generates one time tokens. At every login, the user is prompted for such a token.
This technique is known from Google, AWS or Github.

For API request, personal access tokens can be used.
Alternatively a 401 response with a header like "X-Foreman-OTP: required; app" could indicate, that 2FA is required for the user.

A client can send the token via a custom header: "Authorization: token TOKEN"
curl -v -u user:password -H "Authorization: token TOKEN" https://localhost:3000/api/subnets

https://tools.ietf.org/html/rfc6238

Related issues:

Has duplicate Foreman - Feature #18147: As a User Concearned about Security, ...		**Duplicate**

History

#1 - 06/20/2018 02:05 PM - Kodiak Firesmith

Hello,
I wanted to pile onto this upstream request as a Satellite 6 customer. Anyone working with the US Government has a hard requirement for 2FA for services like the Satellite 6 UI starting at the end of 2018, due to something called "DFARS".
At my facility, we must use existing 2FA providers and enterprise authentication mechanisms - these are Active Directory (FreeIPA not allowed), and RADIUS.

Ansible Tower already does this quite nicely so perhaps there are some re-usable parts that can be shimmed in?

Thanks!

#2 - 07/17/2018 07:47 PM - Marek Hulán

- Triaged set to No

Foreman can be configured with external auth service, such as FreeIPA. Then 2FA can be configured there. This should work for UI, API doesn't work this way AFAIK.

#3 - 02/21/2023 11:12 AM - Ewoud Kohl van Wijngaarden

- Has duplicate Feature #18147: As a User Concearned about Security, I would like two factor authentication added