



Beame Gatekeeper

Operation Manual



Beame Gatekeeper	1
Installation	3
System Requirements	3
Installing the Gatekeeper package	3
Getting Registration Token	4
Boot and run	4
Setting Gatekeeper as system service	4
Setting Gatekeeper as regular app	4
Gatekeeper Configuration	5
Admin Console	5
Accessing the console	5
Gatekeeper Dashboard	6
Service name	6
The name of the Gatekeeper - can also be set by CLI in OS shell	6
Registration method	6
Environment Mode	6
Allow Public Registration	7
Use Image Authentication	7
Encrypt User Data	7
Invitations	8
Create Invitation	8
Upload Invitations CSV	8
Invitations Report	8
Creds	9
Creds Tree	9
Share Cred	9
Cred Actions	9
Add DNS	10
Users	10
Registrations	10
Services	11
VPN	11
Beame-Gatekeeper CLI	12
Beame-gatekeeper-ctl	12
Beame-gatekeeper	12



Installation

Instructions can be found at [beame-gatekeeper npm page](#) as well
See [this video](#) on how to install Beame Gatekeeper on [Kali Linux](#)

System Requirements

Npm 3.10.10 or newer, Nodejs 6, 6.9.1 or newer

Windows (find detailed Windows requirements [here](#)):

Ensure that you run installation as administrator

Install Node.js from <https://nodejs.org/en/download/>

Linux (may require “sudo”):

`apt-get install npm`

`apt-get install nodejs`

To install specific version:

`curl -sL https://deb.nodesource.com/setup_6.x | sudo bash -`

Mac OS ([installation video](#)):

`brew install npm`

To update:

`brew update`

`brew upgrade node`

Installing the Gatekeeper package

Install the Gatekeeper application from npm package (requires root access, so use “sudo” if needed):

Raspbian: `npm install beame-gatekeeper -g --unsafe-perm`

Others: `npm install -g beame-gatekeeper`

Note: *unsafe-perm* switch sometimes may be required even when running as root



Getting Registration Token

1. Navigate to <https://start.beameio.net>
2. Prove you're not a bot by passing a captcha
3. Type in your name and email
4. Accept User Agreement and email with token will be sent to the email address you provided

Boot and run

Setting Gatekeeper as system service

Use command from registration email (don't forget "sudo" if needed)

MacOS: `beame-gatekeeper-install-launchd <token>`

Linux: `beame-gatekeeper-install-systemd <token>`

The advantages are:

- Gatekeeper will run as a less privileged, no-shell user:
`beame-gatekeeper` (`_beame-gatekeeper` on Mac)
- All the provisioning of credentials will be performed under that user, without touching your own home directory
- Beame-gatekeeper will be installed as a system service, so no need to start it manually on system reboot

Setting Gatekeeper as regular app

This is the only available Gatekeeper configuration for Windows in current release

Use token from registration email, you'll need root privileges if you installed



npm package with “-g” option.

Any OS: `beame-gatekeeper creds getCreds --regToken <token>`

To run is as regular application: `beame-gatekeeper server start`

Gatekeeper Configuration

Admin Console

Accessing the console

To open Gatekeeper admin console for the first time, ensure that your Gatekeeper is running and use the token, that was printed at the end of installation, or generate a new one:

`beame-gatekeeper-ctl admin`

OR

`beame-gatekeeper creds admin`

Copy-paste the token to your web-browser address bar and press enter.

Be aware, verified browsers are: Firefox, Chrome, Opera, Edge



Gatekeeper Dashboard

Dashboard

Service **Serge local mac Gatekeeper** Version **1.0.32** AppId **d605903ed8206b9ec4378316adac3db8**

Creds ▼

AppConfig ▲

Service name

Serge local mac Gatekeeper

Registration method

Pairing ▼

Environment Mode

Gatekeeper ▼

HTML Mode

Prod ▼

Allow Public Registration

☒

Use Image Authentication

☐

Encrypt User Data

☐

- Service name
 - The name of the Gatekeeper - can also be set by CLI in OS shell
- Registration method
 - *Pairing* - register by scanning a QR
 - *Email*(*required for SSO) - register by opening registration link on a mobile device with [Beame Authenticator](#) installed
- Environment Mode
 - *Gatekeeper* - main mode of work
 - *Central Login* - to be used as a router for any other Gatekeeper
 - *Delegated Login Master* - to be used as a router for pre-defined Gatekeeper(s)



- Allow Public Registration
 - Permits direct access to Gatekeeper's registration page (other options are controlled by the Admin)
- Use Image Authentication
 - If set, makes registration process to require *User Image* as a part of identification, the image further is signed by Gatekeeper and stored in sandbox on Mobile device, accessible only from within Authenticator to be used as additional authentication factor
- Encrypt User Data
 - If set, all data provided by user upon identification (name, email, ID) is encrypted by Gatekeeper and stored in app sandbox on Mobile device as encrypted block (*required for SSO)



Invitations

Used to create registration invitations, to allow a User to get a credential to access Gatekeeper's services/applications. The invitation is to be opened on mobile device with [Beame Authenticator](#) app installed

Create Invitation

Upload Invitations CSV

No file chosen

Invitations Report

ID	NAME	EMAIL	USERID	FQDN	STATUS	ADD ON	
168	Hrundel	s+hrundel8@beame.io		pr1uwnr3dndymizy.n...	Waiting	05/28/2017	<input type="button" value="x"/>
167	Hrundel	hrundel7@beame.io		m049h31rgvt55ftg.nu...	Waiting	05/28/2017	<input type="button" value="x"/>
166	Hrundel	hrundel6@beame.io		n2tqhwhfub63y4jda.n...	Waiting	05/28/2017	<input type="button" value="x"/>

- Create Invitation
 - Issue single invitation to *Email* optionally providing *Name* and *External User ID*
- Upload Invitations CSV
 - Issue invitation bundle to *Emails* optionally providing *Names* and *User IDs*, file format:
 - *Name, email@example.io, userId*
 - *, email1@example.io, userId1*
- Invitations Report
 - Invitation data, date of issuance and status (*Waiting/Cancelled/Completed*)



Creds

Tools to manage certificates. Create new creds, build and manage groups & trees. Register a hostname in DNS.

Creds Tree Refresh store

Search Find

☐ Exclude revoked

- (L)Serge local mac
 - (L)MatchingServer
 - (L)GatewayServer
 - (R)Serge
 - (R)ss
 - (R)Serge
 - (R)Serge

Cred Details

FQDN https://nuoyg2mbd00xyw5p.v1.d.beameio.net

Valid till 5/23/2018, 3:16:16 PM

Revoked ☐

Name Serge local mac

Email s+localmac@beame.io

Pfx Pwd bve#Ax6^5xzLF^5&

SHARE CRED

s+localmac@beame.io

Send Pfx by Email

Show QR

Download Pfx

CRED ACTIONS

Create Child

Create Invitation

Create Registration Token

CERT ACTIONS

Cert Details

Renew

Revoke

Check Ocsp

Purge

DNS

FQDN	VALUE
nuoyg2mbd00xyw5p.v1.d.beameio.net	arn5e5bh1s9mkqwr.bqnp2d2beqol13qn.v1

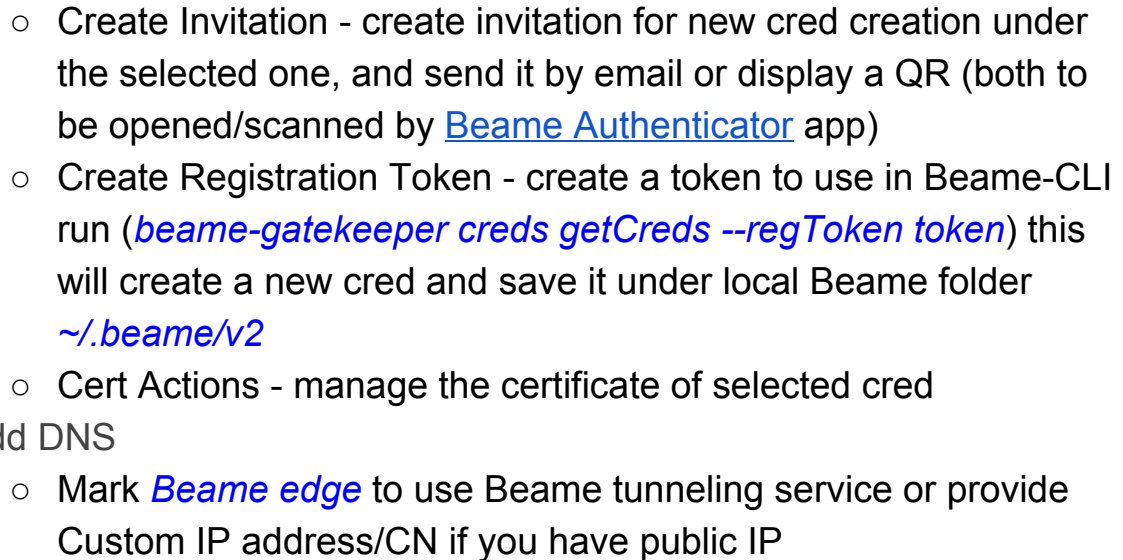
ADD DNS

☒ Beame edge ☐ Custom Value: CN or IP

I01.nuoyg2mbd00xyw5p.v1.d.beameio.net

Create DNS Record

- Creds Tree
 - Creds are displayed on the left pane in tree structure, choose a cred to work with
- Share Cred
 - Choose a way to transfer a Pfx you created (in current release password will be sent along with the Pfx)
- Cred Actions
 - Create Child - create a new cred under the selected one (the new cred will appear underneath the parent in tree)



Manage Users of your Gatekeeper.

Make any User a Admin.
Make a User Active/Inactive by setting corresponding value in *ACTIVE* field
Export a User list

Status and data of all registrations in your Gatekeeper.



Services

Define applications and services that your Gatekeeper provides to authenticated Users. See how it is easily done in [this “Hello World” video](#)

Services Report						Add a new record	
ID	CODE	NAME	URL	ACTIVE			
7	ADMIN_INVITATION	Admin Invitations		true			
6	RASPBERRY_LIGHT	Raspberry Light	http://localhost:56387	true			
5	MOBILE_STREAM	Mobile Stream		false			
4	MOBILE_PHOTO	Mobile Photos	http://localhost:56385	true			
3	SAMPLE_CHAT	Simple chat	http://localhost:56383	true			
2	SAMPLE_FILE_SHARE	Files sharing app	http://localhost:56384	true			
1	ADMIN	Insta server admin app		true			

1 - 7 of 7 items

Code - any unique string, there are several stored names, that are processed by the Gatekeeper in a different manner

Name - meaningful name, to be displayed to a User

URL - where the application/service is running

Active - turn the application availability on/off

VPN

Beame Gatekeeper supports [StrongSwan](#) VPN. Create mobile VPN profile and scan the QR with any scanner of your mobile device. Import the profile and credential to your mobile. See [this guide](#) for detailed instructions



Beame-Gatekeeper CLI

Beame-gatekeeper-ctl

Use if the Gatekeeper installed as a system service

Check that the process has started	<code>beame-gatekeeper-ctl status</code>
restart/start/stop beame-gatekeeper	<code>beame-gatekeeper-ctl restart/start/stop</code>
Get basic info	<code>beame-gatekeeper-ctl info</code>
Get admin token (copy-paste to your Browser)	<code>beame-gatekeeper-ctl admin</code>
Rename your Gatekeeper	<code>beame-gatekeeper-ctl name <some-name></code>

Beame-gatekeeper

Use if the Gatekeeper installed as a regular app

`beame-gatekeeper creds getCreds [--regToken regToken] [--fqdn fqdn]`- create new Cred with [regToken](#)

`beame-gatekeeper creds list [--regex regex] [--format {text|json}]` - list Creds that are found on local machine

`beame-gatekeeper creds listVpnCreds --fqdn fqdn --vpnId vpnId [--format {text|json}]`- list Creds related to vpnId

`beame-gatekeeper creds createServersCredentials` - initial Gatekeeper creds acquisition

`beame-gatekeeper creds webToken --type {config|admin|app} [--appId appId] [--format {text|json}]` - get link with token, copy-paste to a browser

`beame-gatekeeper creds admin [--format {text|json}]`- shortcut to get admin link with token

`beame-gatekeeper config init` - validate Gatekeeper configuration

`beame-gatekeeper config setName --name name` - rename the Gatekeeper

`beame-gatekeeper server start`