Telemetry Initiative

Main issue: https://github.com/backdrop/backdrop-issues/issues/285

People can opt out (during the installer and on existing sites)

How to manage data responsibility and with consent.

1. Being totally transparent about exactly what we are collecting and how it is being used.

Are we collecting all the data all the time.
   1. Likely reporting on a weekly basis.

Can this be used for contrib development as well?
   1. Probably initially, no? But plan for expansion? hook_telemetry_data()?

Number of nodes

Parts

1. What data do we collect
   a. Good starting list at https://github.com/backdrop/backdrop-issues/issues/285 (list needs to be cleaned up).

      i. which core modules are enabled
      ii. are clean URLs enabled?
      iii. which core layouts are in use?
      iv. which core module field types are in use?
      v. which contrib (sub)modules (not projects) are in use?
      vi. which color module color palettes in use?
      vii. how many roles are in use (and their names?)
      viii. how many sites are using revisions?
      ix. which permissions are added to editor role (problematic - need to think about implications of it)
      x. PHP version (needed for #3490 and #719)
      xi. Server OS - needed for these
      xii. Multisite or not (needed for #3206)
      xiii. Name of Install profile in use (needed for #3205)

          xiv.   Number of block displays vs page displays for views (needed for [#2978](#))
          xv.   Sticky admin bar setting (needed for [#788](#))
          xvi.   User role names (needed for [#1285](#))
          xvii.   Number of active themes (needed for [#131](#))
          xviii.   Site size metrics (number of user accounts, number of nodes, number of managed files etc.)
          xix.   Whether the site was a previous D6/7 upgrade
          xx.   enabled modules & sub-modules (not just packages) [d.o issue 1](#) | [d.o issue2](#) | [d.o issue 3](#) Needed for the following:
          xxi.   Contextual links module: [#1409](#)
          xxii.   Contact module: [#3023](#)

   b. MVP fields:
       i.   PHP Version
       ii.   MySQL Version
       iii.   Webserver and Version

2. How do users opt in or opt out
   a. Put checkbox in the installer
   b. Disable "Telemetry" module on existing sites

3. How do we transmit the data
4. Decoupling from update module (Separate checking for updates from collecting anonymous data [#3168](#))
   a. Update module should continue to work as-is. However an option to disable tracking of installed modules should be added, and hinge upon that same option during the installer.
5. Where do we transmit the data
   a. Currently goes to BackdropCMS.org
       i.   Format: JSON POST and JSON response

ii.   MySQL
              b. Elastic Search
              c. Separate SQL database
    6. How do manage the data

    7. Do we keep historical data

    8. We could look at how Wordpress is doing this?
              a. https://wordpress.org/about/stats/
    9. Other examples?
    10. Encrypted

Oct 17 Brainstorm Architecture

Core module: telemetry.module
Contrib module: project_telemetry.module (part of project module)

.info files expose Telemetry data to backdropcms.org (part of packaging processing?)

telemetry[php_version] = PHP Version
telemetry[server_os] = Server OS

Two hooks within each module that has telemetry data it wants to expose:

```
hook_telemetry_info() {
  $info['php_version'] = array(
    'label' => t('PHP Version'),
    'description' => t('The current version of PHP running on your server.'),
  );
  $info['server_os'] = array(
    'label' => t('Server OS'),
    'description' => t('The operating system of your server, such as RedHat Linux, Debian,
Windows, etc.'),
  );
}
```

```
hook_telemetry_data($key) {
  switch ($key) {
    case 'php_version':
      return PHP_VERSION;
    case 'server_os':
      return PHP_OS;
  }
}
```

On BackdropCMS.org, add links for "Telemetry" ("Usage is not currently shown, perhaps add that as well?):

Backdrop

| View | Edit | Usage | Telemetry |

Recommended releases

Download	Links
Download 1.17.1 ⬇ (9.16 MB)	Notes

Other releases

Recommended version 1.17.1

Released: Sep 30th, 2020

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