



Gaia Watcher v1 - Fleet Tracking System

New Tracking System for fleet management. rhalfcaacbay@gmail.com

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Components

- app_api
- app_web
- app_socket
- app_database

Requirements

- Physical Server
 - At least I3 3.0 ghz quad core
 - At least 8gb RAM
 - At least 1 terabytes hdd
- Windows server 2012
- IIS 8
- MySQL Community Edition
- Php Manager
- Php 5.6
- Dot Net Framework 4.5.2
- Google Chrome

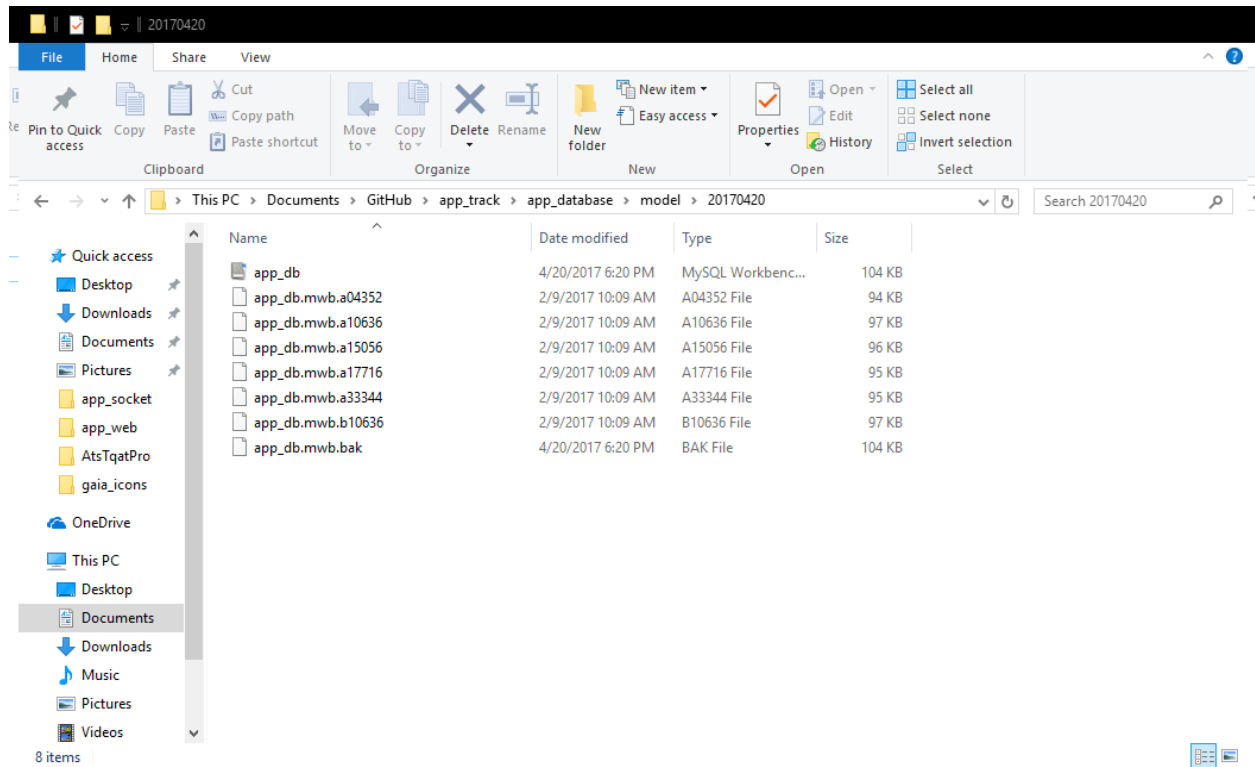
app_database(mysql - backend)

Installation

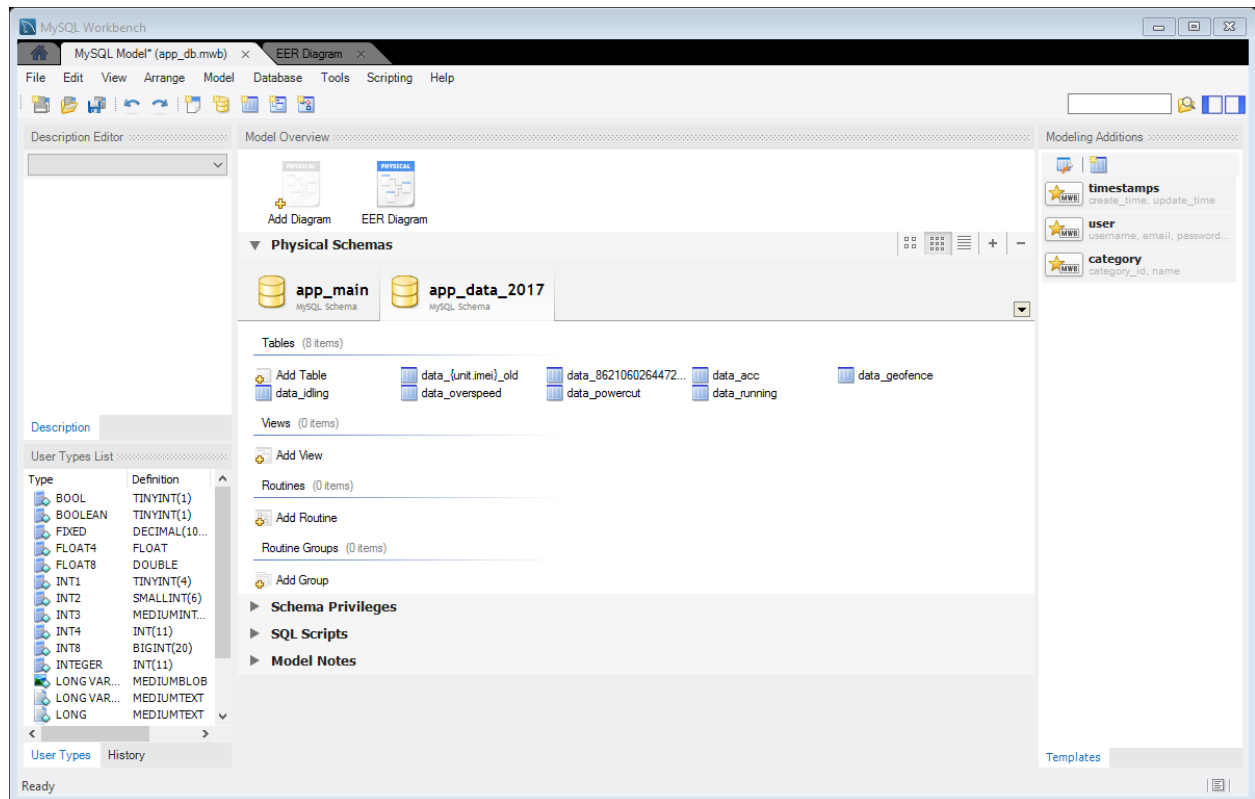
- Open app_database model project file.

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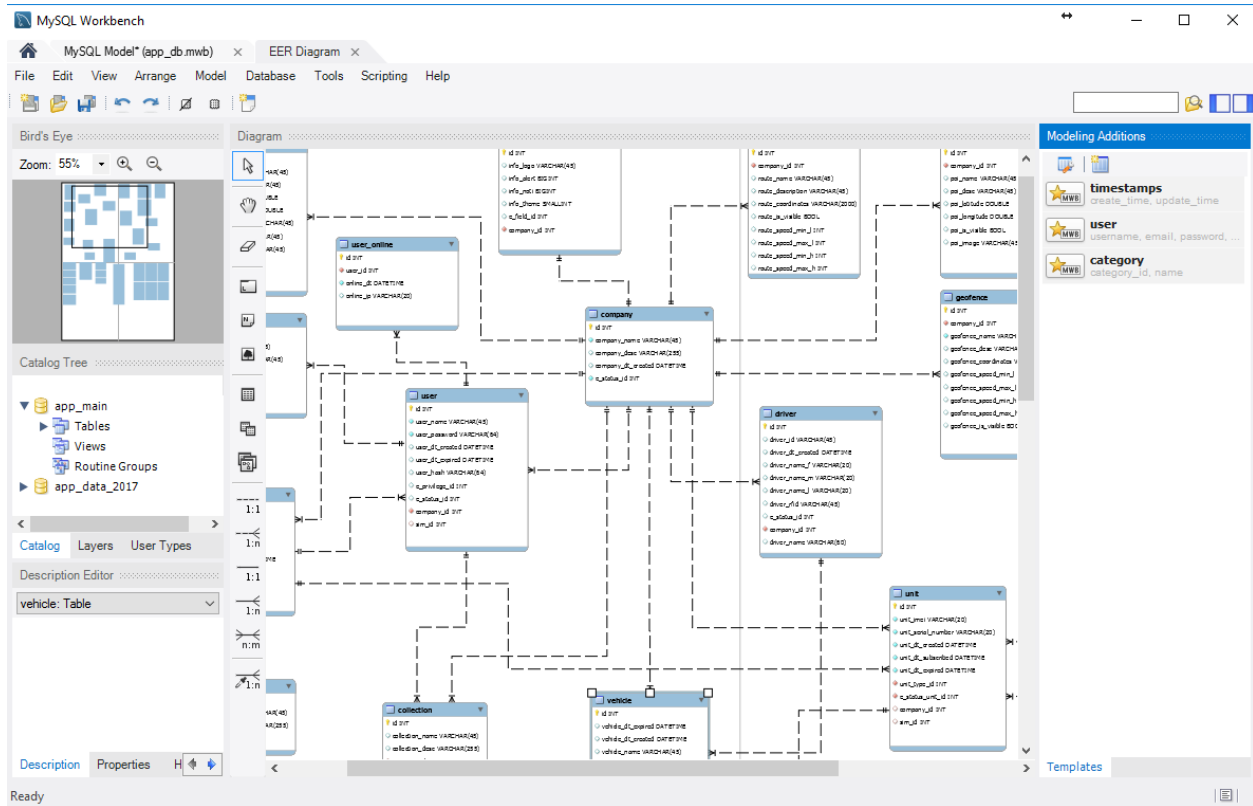
- Check databases.



- Check diagram.

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- Upload database using forward engineer function or press ctrl+g.

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Forward Engineer to Database

Connection Options

Options

Select Objects

Review SQL Script

Commit Progress

Set Parameters for Connecting to a DBMS

Stored Connection: Select from saved connection settings

Connection Method: Method to use to connect to the RDBMS

Parameters ☒ SSL ☐ Advanced

Hostname: Port: Name or IP address of the server host - and TCP/IP port.

Username: Name of the user to connect with.

Password: The user's password. Will be requested later not set.

Default Schema: The schema to use as default schema. Leave blank to select it later.

Back

Next

Cancel

- Set your credentials such as ip, port, username and userpassword.

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Forward Engineer to Database

Connection Options

Options

Select Objects

Review SQL Script

Commit Progress

Set Options for Database to be Created

Tables

- ☐ Skip creation of FOREIGN KEYS
- ☐ Skip creation of FK Indexes as well
- ☐ Generate separate CREATE INDEX statements
- ☒ Generate INSERT statements for tables
- ☐ Disable FK checks for INSERTs

Other Objects

- ☐ Don't create view placeholder tables
- ☐ Do not create users. Only create privileges (GRANTS)

Code Generation

- ☒ DROP objects before each CREATE object
- ☒ Generate DROP SCHEMA
- ☐ Omit schema qualifier in object names
- ☐ Generate USE statements
- ☒ Add SHOW WARNINGS after every DDL statement
- ☒ Include model attached scripts

Back Next Cancel

- Select checked items as indicated in picture.

app_api (flightPhp restapi - middleware)

Features

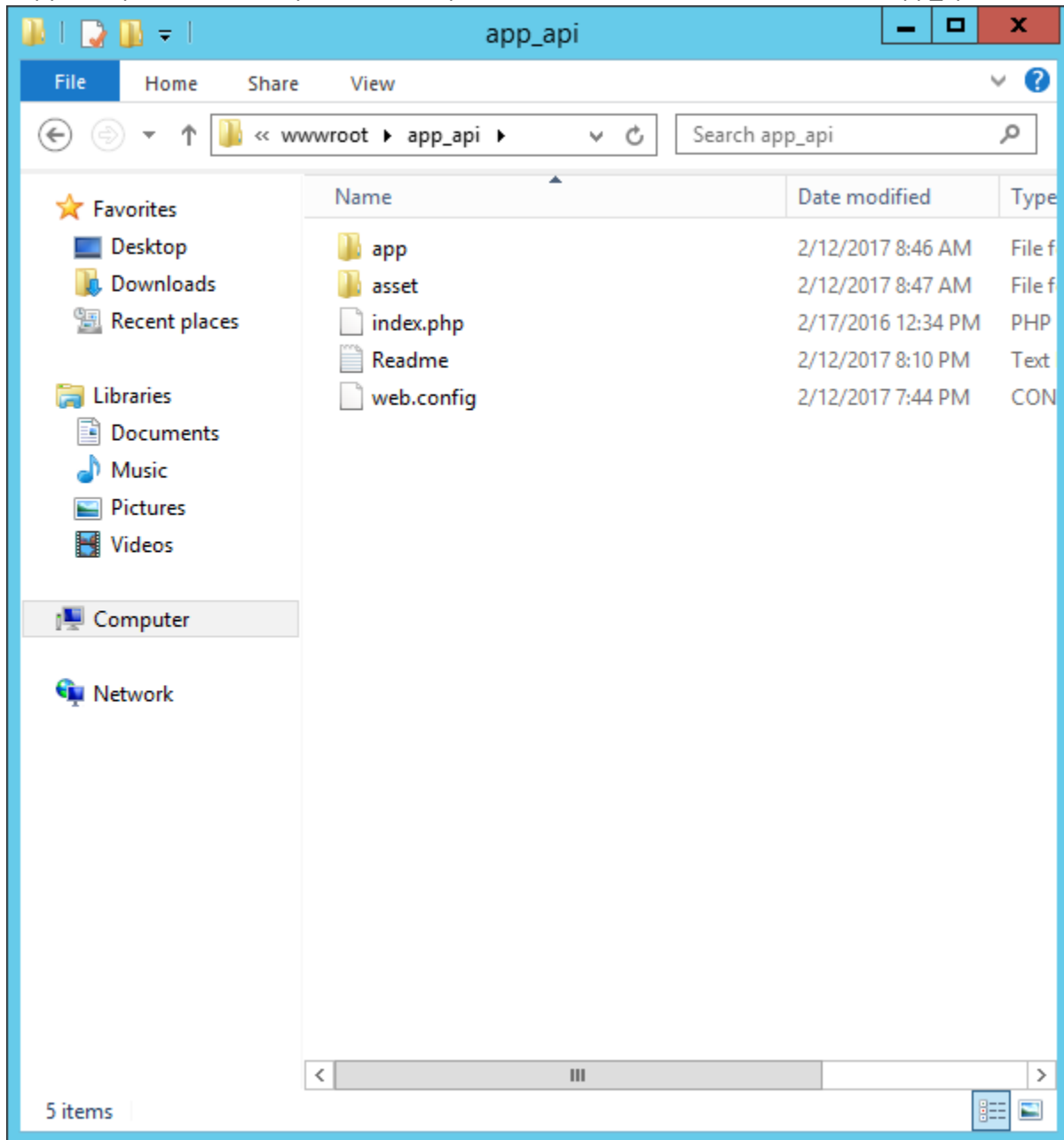
- Uses FlightPhp framework.
- Supports standard crud request.
- Provides a clear status response.
- Supported all platforms, browsers and devices.
- Designed in object oriented approach for each
- Updating, patching and managing source code.

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Installation

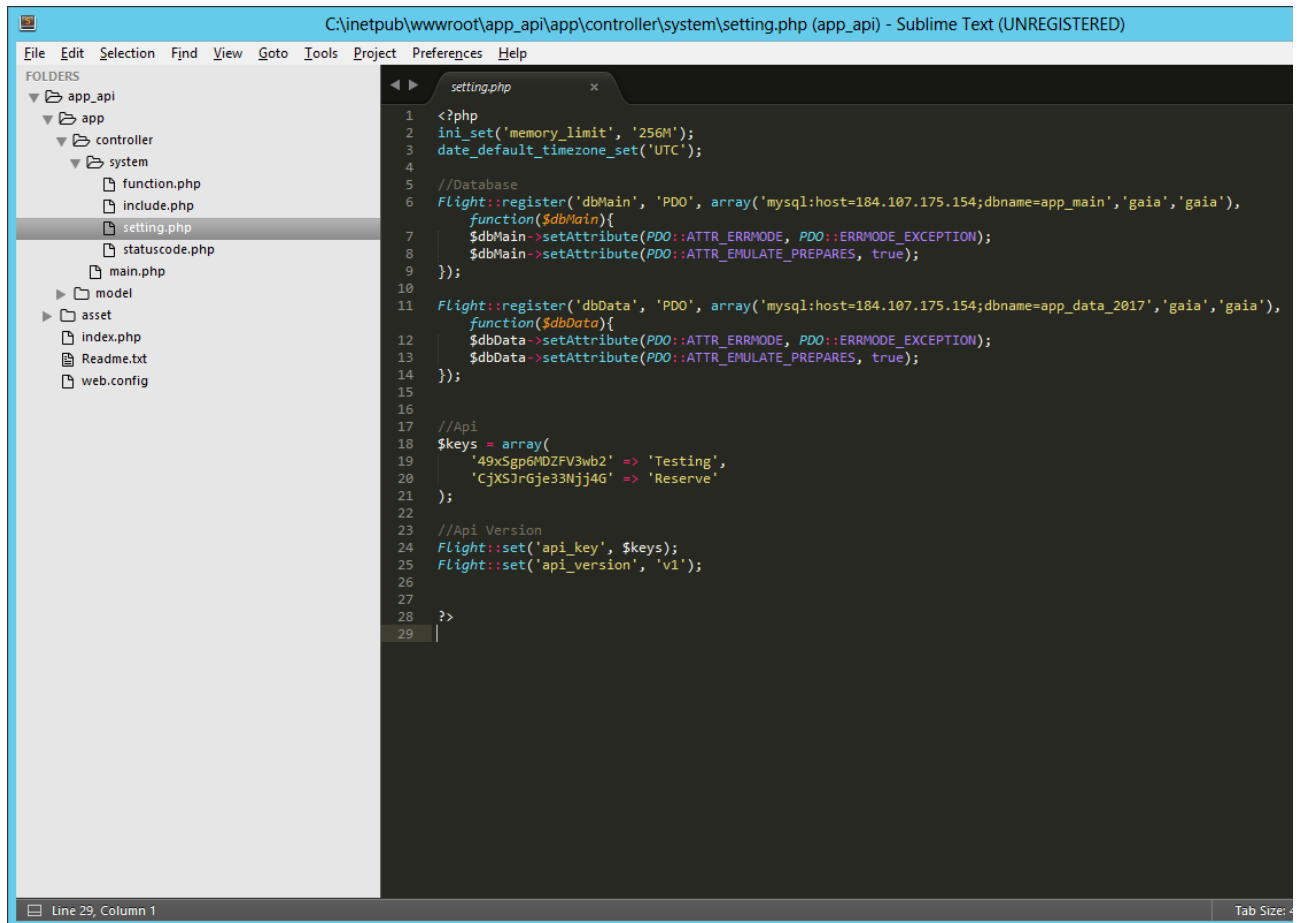
- Copy this api to a server of your wish and put inside a folder, rename the folder to "app_api".



- Open iis8 and create new website.
- Direct the path into the api's folder "../app_api".
- Set the ip and port you want "184.107.175.154".
- Go to app_api folder. Find setting.php
- Update setting database credentials.

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The screenshot shows a Sublime Text editor window titled "C:\inetpub\wwwroot\app_api\app\controller\system\setting.php (app_api) - Sublime Text (UNREGISTERED)". The left sidebar displays a file tree with folders: app_api, app, controller, system, model, and asset. The main editor area shows the code for setting.php, which includes database configuration, API key settings, and version information.

```
1 <?php
2 ini_set('memory_limit', '256M');
3 date_default_timezone_set('UTC');
4
5 //Database
6 Flight::register('dbMain', 'PDO', array('mysql:host=184.107.175.154;dbname=app_main','gaia','gaia'),
7     function($dbMain){
8         $dbMain->setAttribute(PDO::ATTR_ERRMODE, PDO::ERRMODE_EXCEPTION);
9         $dbMain->setAttribute(PDO::ATTR_EMULATE_PREPARES, true);
10    });
11 Flight::register('dbData', 'PDO', array('mysql:host=184.107.175.154;dbname=app_data_2017','gaia','gaia'),
12     function($dbData){
13         $dbData->setAttribute(PDO::ATTR_ERRMODE, PDO::ERRMODE_EXCEPTION);
14         $dbData->setAttribute(PDO::ATTR_EMULATE_PREPARES, true);
15    });
16
17 //Api
18 $keys = array(
19     '49xSgp6MDZFV3wb2' => 'Testing',
20     'CjXSJr6je33Njj4G' => 'Reserve'
21 );
22
23 //Api Version
24 Flight::set('api_key', $keys);
25 Flight::set('api_version', 'v1');
26
27
28 ?>
29
```

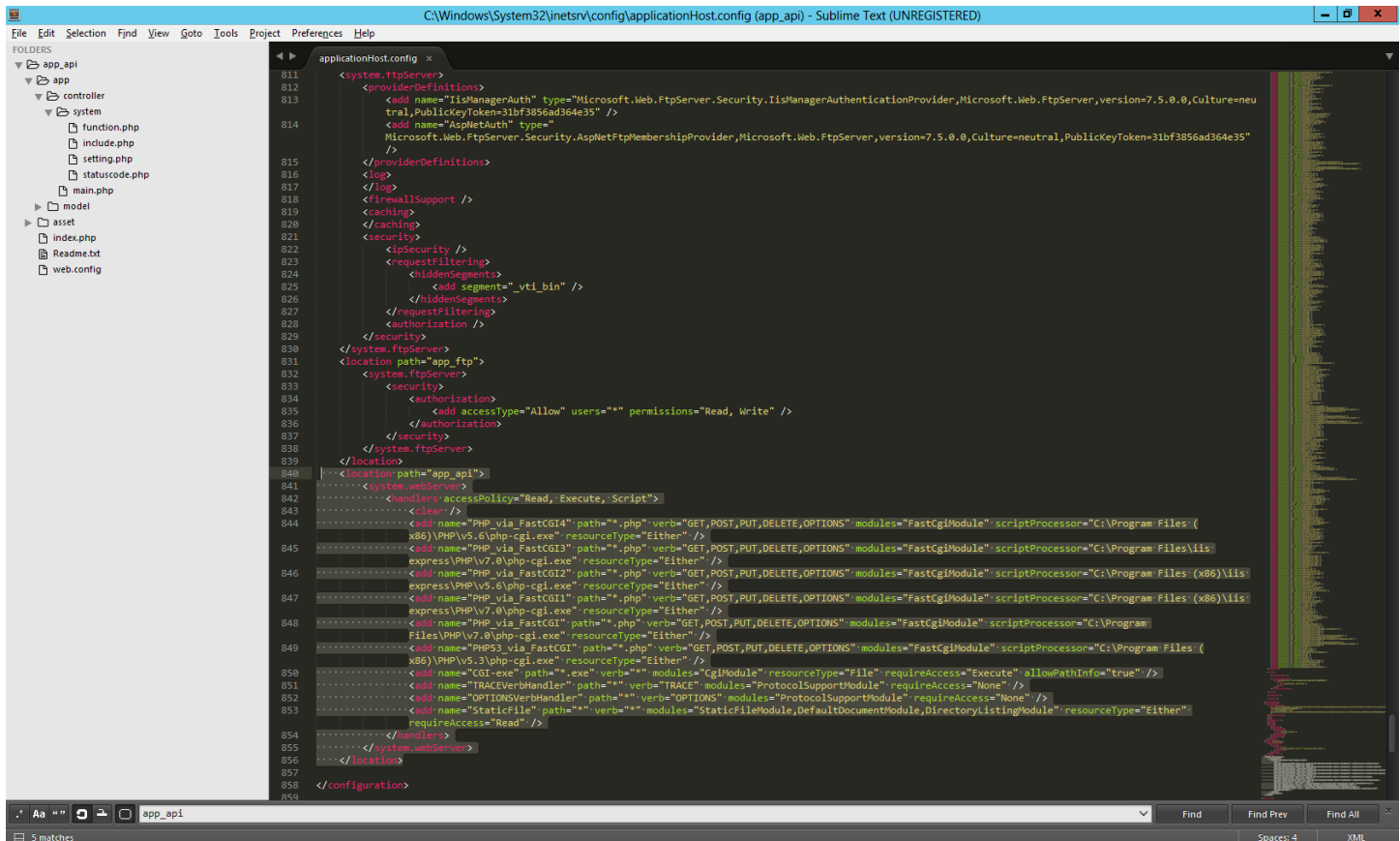
- To enable http verbs:
 - Goto C:\Windows\System32\inetrv\config\applicationHost.config
 - Add verbs

```
<location path="app_api">
    <system.webServer>
        <handlers accessPolicy="Read, Execute, Script">
            <clear />
            <add name="PHP_via_FastCGI4" path="*.php" verb="GET,POST,PUT,DELETE,OPTIONS"
modules="FastCgiModule" scriptProcessor="C:\Program Files (x86)\PHP\v5.6\php-cgi.exe"
resourceType="Either" />
            <add name="PHP_via_FastCGI3" path="*.php" verb="GET,POST,PUT,DELETE,OPTIONS"
modules="FastCgiModule" scriptProcessor="C:\Program Files\iis express\PHP\v7.0\php-cgi.exe"
resourceType="Either" />
            <add name="PHP_via_FastCGI2" path="*.php" verb="GET,POST,PUT,DELETE,OPTIONS"
modules="FastCgiModule" scriptProcessor="C:\Program Files (x86)\iis express\PHP\v5.6\php-cgi.exe"
resourceType="Either" />
            <add name="PHP_via_FastCGI1" path="*.php" verb="GET,POST,PUT,DELETE,OPTIONS"
modules="FastCgiModule" scriptProcessor="C:\Program Files (x86)\iis express\PHP\v7.0\php-cgi.exe"
resourceType="Either" />
        </handlers>
    </system.webServer>
</location>
```

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```
<add name="PHP_via_FastCGI" path="*.php" verb="GET,POST,PUT,DELETE,OPTIONS"
modules="FastCgiModule" scriptProcessor="C:\Program Files\PHP\v7.0\php-cgi.exe"
resourceType="Either" />
<add name="PHP53_via_FastCGI" path="*.php"
verb="GET,POST,PUT,DELETE,OPTIONS" modules="FastCgiModule" scriptProcessor="C:\Program Files
(x86)\PHP\v5.3\php-cgi.exe" resourceType="Either" />
<add name="CGI-exe" path="*.exe" verb="*" modules="CgiModule"
resourceType="File" requireAccess="Execute" allowPathInfo="true" />
<add name="TRACEVerbHandler" path="*" verb="TRACE"
modules="ProtocolSupportModule" requireAccess="None" />
<add name="OPTIONSVerbHandler" path="*" verb="OPTIONS"
modules="ProtocolSupportModule" requireAccess="None" />
<add name="StaticFile" path="*" verb="*"
modules="StaticFileModule,DefaultDocumentModule,DirectoryListingModule" resourceType="Either"
requireAccess="Read" />
</handlers>
</system.webServer>
</location>
```



```
applicationHost.config
811 <system.webServer>
812 <providerDefinitions>
813 <add name="IisManagerAuth" type="Microsoft.Web.FtpServer.Security.IisManagerAuthenticationProvider,Microsoft.Web.FtpServer,version=7.5.0.0,Culture=neu
814 tral,PublicKeyToken=31bf3856ad364e35" />
815 <add name="AspNetAuth" type="
816 Microsoft.Web.FtpServer.Security.AspNetFtpMembershipProvider,Microsoft.Web.FtpServer,version=7.5.0.0,Culture=neutral,PublicKeyToken=31bf3856ad364e35"
817 />
818 </providerDefinitions>
819 <log>
820 </log>
821 <firewallSupport />
822 <requestFiltering>
823 <hiddenSegments>
824 <add segments="vti_bin" />
825 </hiddenSegments>
826 </requestFiltering>
827 <authorization>
828 <security>
829 <ipSecurity />
830 </security>
831 </system.webServer>
832 <location path="app_ftp">
833 <system.webServer>
834 <security>
835 <authorization>
836 <add accessType="Allow" users="*" permissions="Read, Write" />
837 </authorization>
838 </security>
839 </system.webServer>
840 </location>
841 <location path="app_api">
842 <system.webServer>
843 <handlers accessPolicy="Read, Execute, Script">
844 <clear> />
845 <add name="PHP_via_FastCGI4" path="*.php" verb="GET,POST,PUT,DELETE,OPTIONS" modules="FastCgiModule" scriptProcessor="C:\Program Files (
846 x86)\PHP\v5.6\php-cgi.exe" resourceType="Either" />
847 <add name="PHP_via_FastCGI3" path="*.php" verb="GET,POST,PUT,DELETE,OPTIONS" modules="FastCgiModule" scriptProcessor="C:\Program Files\Iis
848 express\PHP\v7.0\php-cgi.exe" resourceType="Either" />
849 <add name="PHP_via_FastCGI2" path="*.php" verb="GET,POST,PUT,DELETE,OPTIONS" modules="FastCgiModule" scriptProcessor="C:\Program Files (x86)\Iis
850 express\PHP\v5.6\php-cgi.exe" resourceType="Either" />
851 <add name="PHP_via_FastCGI1" path="*.php" verb="GET,POST,PUT,DELETE,OPTIONS" modules="FastCgiModule" scriptProcessor="C:\Program Files (x86)\Iis
852 express\PHP\v7.0\php-cgi.exe" resourceType="Either" />
853 <add name="PHP_via_FastCGI" path="*.php" verb="GET,POST,PUT,DELETE,OPTIONS" modules="FastCgiModule" scriptProcessor="C:\Program
854 Files\PHP\v7.0\php-cgi.exe" resourceType="Either" />
855 <add name="PHP53_via_FastCGI" path="*.php" verb="GET,POST,PUT,DELETE,OPTIONS" modules="FastCgiModule" scriptProcessor="C:\Program Files (
856 x86)\PHP\v5.3\php-cgi.exe" resourceType="Either" />
857 <add name="CGI-exe" path="*.exe" verb="*" modules="CgiModule" resourceType="File" requireAccess="Execute" allowPathInfo="true" />
858 <add name="TRACEVerbHandler" path="*" verb="TRACE" modules="ProtocolSupportModule" requireAccess="None" />
859 <add name="OPTIONSVerbHandler" path="*" verb="OPTIONS" modules="ProtocolSupportModule" requireAccess="None" />
860 <add name="StaticFile" path="*" verb="*" modules="StaticFileModule,DefaultDocumentModule,DirectoryListingModule" resourceType="Either"
861 requireAccess="Read" />
862 </handlers>
863 </system.webServer>
864 </location>
865 </configuration>
```


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- Restart iis then test the GET command "http://184.107.175.155/v1/main/privilege/".



Request Mapping

*Parts

<http://184.107.175.155/v1/main/privilege/1>

1. Port
 - http = Port 80
 - https = Port 443
2. Ip Address
 - 184.107.175.155
 - Can be a domain
3. Api Version
 - v1, v2
4. Class
 - privilege
 - user
 - company
 - etc...
5. Database or Source
 - main
 - data
 - report
7. Id (Optional)
 - 1, 2...
 - If empty then selects all

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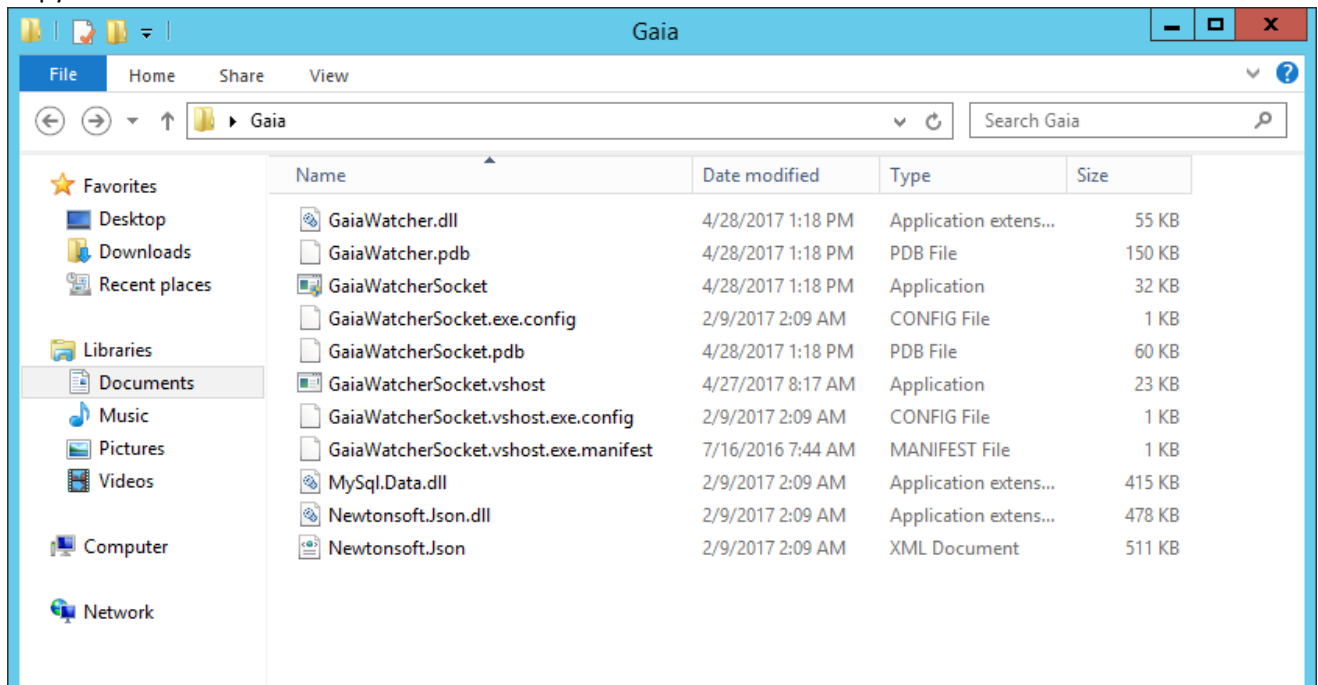
*GET

- <http://184.107.175.155/v1/main/privilege>

app_socket(wpf c# - socket server)

Installation

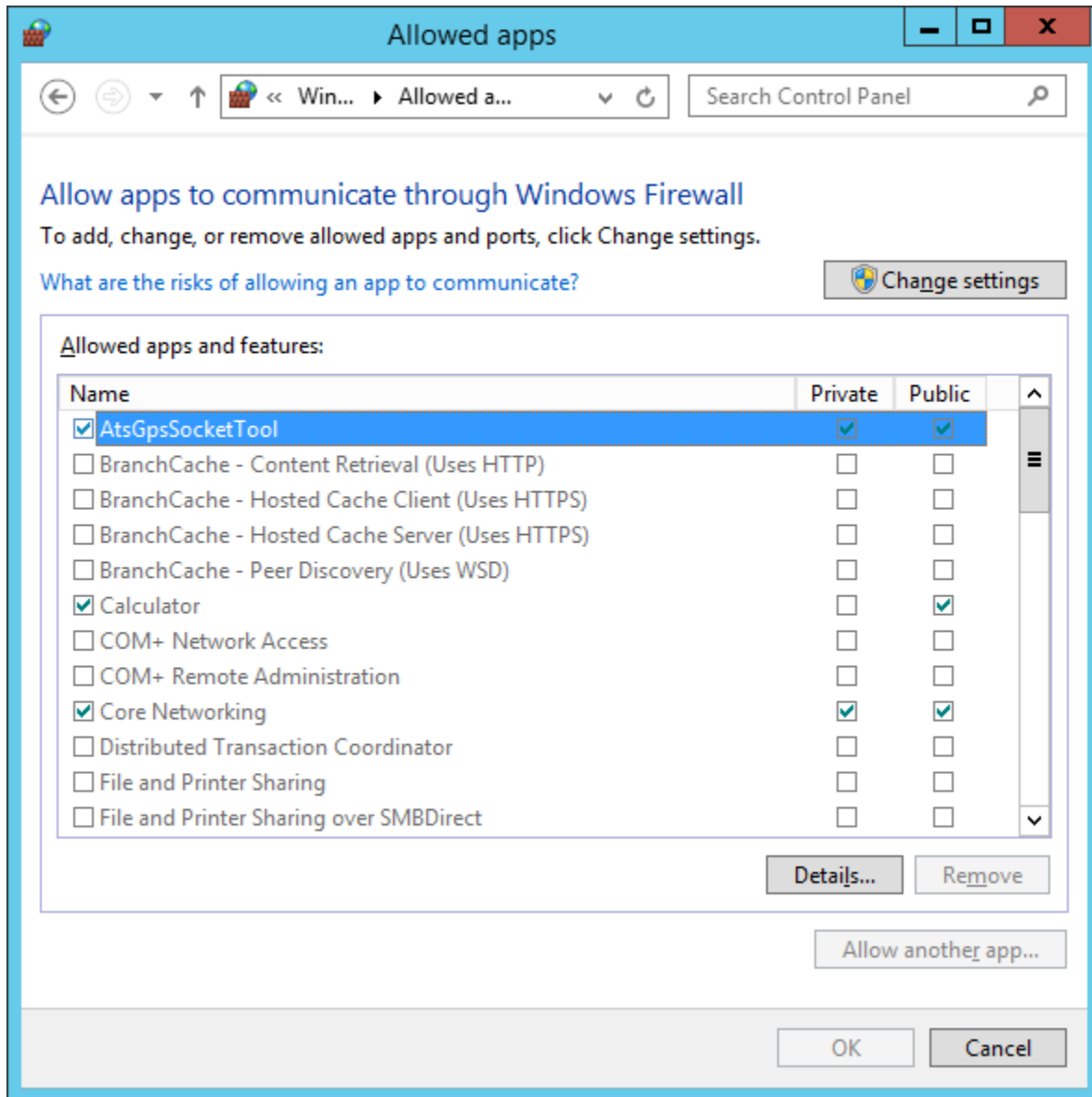
- Copy folder to the server.



- Allow app_socket from the firewall

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- Create a server profile.

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WindowMain

ServerDatabase

DashboardServersLog

Mysql

Ip184.107.175.154

Port3306

Database

Usernamegaia

Passwordgaia

TestTest Mysql

Services

Id	Company	Socket	Ip	Port	Task	Enable
636179719747966537	Meitrack	MVT100	184.107.175.158	50010	2	<input checked="" type="checkbox"/>
636279443840854746	Ats	COMMAND	184.107.175.158	50000	1	<input checked="" type="checkbox"/>
636283339243328529	Meitrack	T1	184.107.175.158	50020	2	<input checked="" type="checkbox"/>

Add

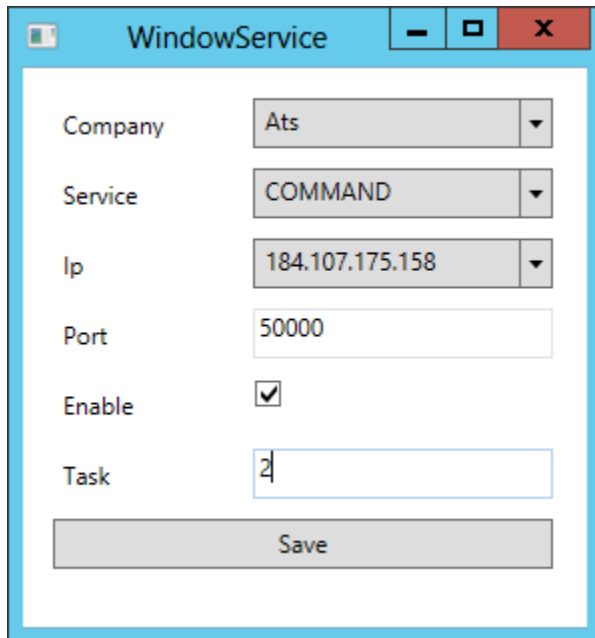
Edit

Delete

- Create ats command for receiving commands and save.

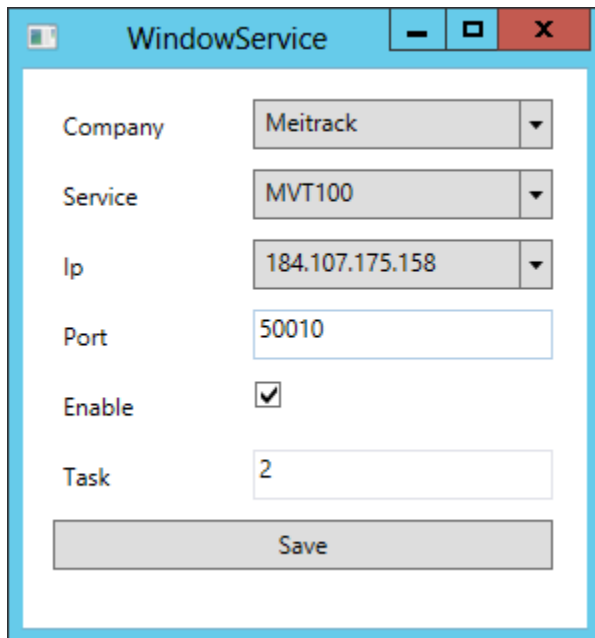
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The screenshot shows a window titled 'WindowService' with a standard Windows-style title bar (minimize, maximize, close buttons). Inside the window, there are several configuration fields: 'Company' is a dropdown menu with 'Ats' selected; 'Service' is a dropdown menu with 'COMMAND' selected; 'Ip' is a dropdown menu with '184.107.175.158' selected; 'Port' is a text input field containing '50000'; 'Enable' is a checkbox that is checked; 'Task' is a text input field containing '2'. At the bottom of the window is a 'Save' button.

- Create meitrack mvt100 service and save.



The screenshot shows a window titled 'WindowService' with a standard Windows-style title bar. Inside the window, the configuration fields are: 'Company' is a dropdown menu with 'Meitrack' selected; 'Service' is a dropdown menu with 'MVT100' selected; 'Ip' is a dropdown menu with '184.107.175.158' selected; 'Port' is a text input field containing '50010'; 'Enable' is a checkbox that is checked; 'Task' is a text input field containing '2'. At the bottom of the window is a 'Save' button.

- Create meitrack t1 service and save.

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The WindowService window contains the following fields and controls:

- Company: Meitrack (dropdown)
- Service: T1 (dropdown)
- Ip: 184.107.175.158 (dropdown)
- Port: 50020 (text input)
- Enable: ☒
- Task: 2 (text input)
- Save: Button

- Set Mysql credential and test.

The WindowMain application shows the Mysql configuration section with the following details:

- Ip: 184.107.175.154
- Port: 3306
- Username: gaia
- Password: gaia
- Database: (empty)
- Test: Test Mysql

The Services table lists the following data:

Id	Company	Socket	Ip	Port	Task	Enable
636179719747966537	Meitrack	MVT100	184.107.175.158	50010	2	<input checked="" type="checkbox"/>
636279443940854746	Ats	COMMAND	184.107.175.158	50000	1	<input checked="" type="checkbox"/>
63628339243328529	Meitrack	T1	184.107.175.158	50020	2	<input checked="" type="checkbox"/>

A small Mysql dialog box is open, displaying "Successful" and an OK button.

- Run server by click server and run uploading by clicking database.

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WindowMain

ServerDatabase

DashboardServersLog

Machine

NameIW-00163E00719A

Utc17-05-03 11:14:51

Ips

Processor8

Cpu0.38%

App0.00%

Thread80

Handle1032

Mem51.17mb

Up Time06:22:18:39

sTime4/28/2017 1:19:37 PM

dTime4/28/2017 1:19:38 PM

Services

Company	Service	Ip	Port	oBytes	iBytes	oPackets	iPackets	created	destroyed
Ats	COMMANI	184.107.175.158	50000	0kb	0kb	0	0	1	1
Meitrack	MVT100	184.107.175.158	50010	0kb	97,102kb	0	620,794	19,701	19,656
Meitrack	T1	184.107.175.158	50020	0kb	23,548kb	0	156,466	2,125	2,114

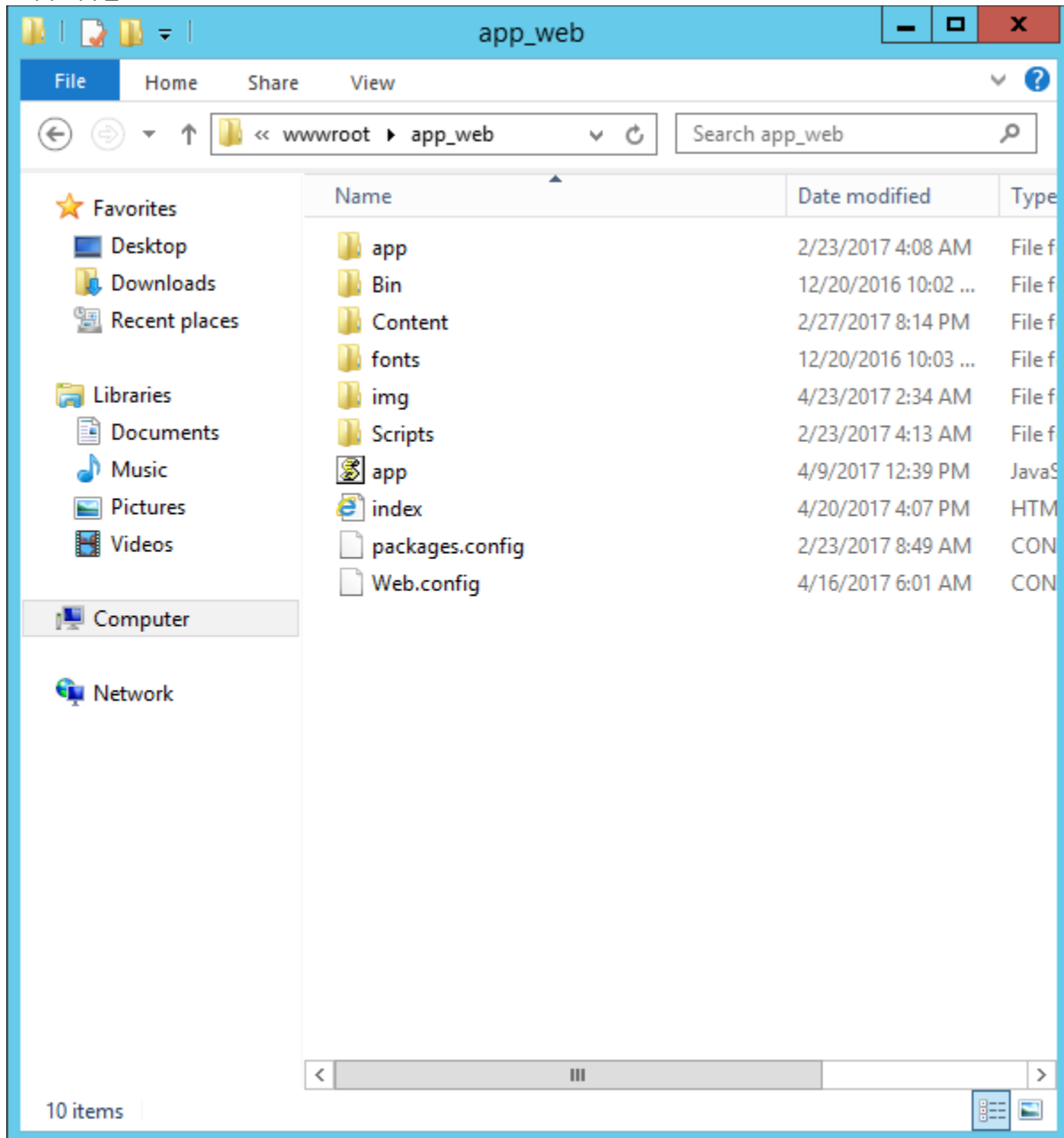
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app_web(angularjs - frontend)

Installation

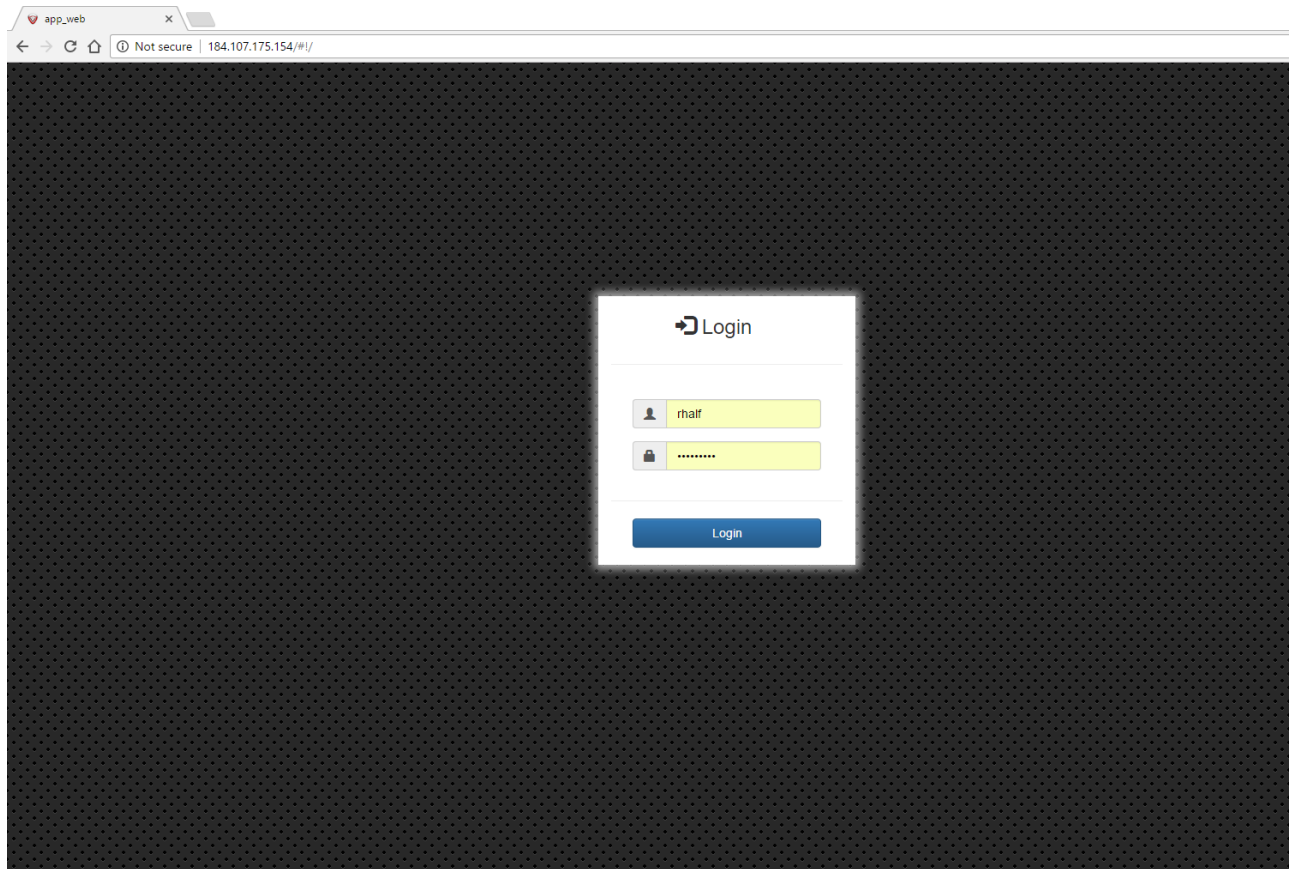
- Copy app_web to server.



- Create a website from iis8 and direct the path to app_web location.
- Open google chrome and browse the ip.

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- Default username is "rhalf" and default userpassword is "321321321"

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app_web 184.107.175.154/#/form

Gaia Watcher System Preferences MapTools Help

Name

Search

Vehicles 6 Collections 5

all

ALL

Test

Honda-Unicom

Toyota Hilux

Toyota Murano D

Toyota Murano

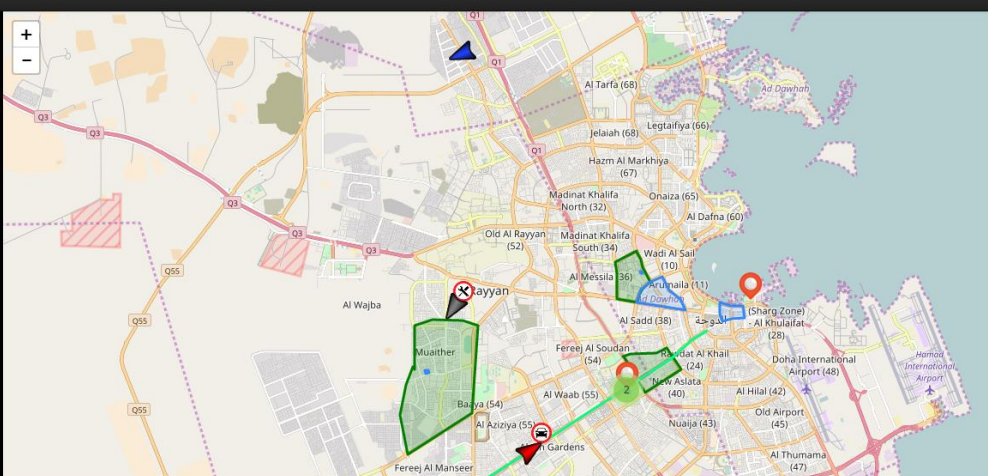
Toyota Sequoia

cars 1

motorcycle 1

SUVS 1

SUVS 2



#	name	dtServer	dtClient	satellite	signal	speed	odo	acc	sos	epc	batt	vcc	relay	geof
1	Test	2017-05-03 14:41:08	2017-05-03 14:40:01	9	16	104	39,230.01	1	0	0	4.25	14.09	0000	
2	Toyota Hilux	2017-05-03 14:40:40	2017-05-03 14:40:41	8	31	0	65,968.26	0	0	0	4.29	13.14	0000	ats o
3	Toyota Sequoia 2009	2017-05-03 14:42:14	2017-05-03 14:42:14	9	20	40	219,571.29	1	0	0	4.25	13.37	0000	
5	Toyota Murano	2017-05-02 10:39:26	2017-05-02 10:39:26	11	31	0	188,603.47	0	0	0	4.35	12.89	0000	
6	Toyota Murano D2	2017-05-03 14:41:57	2017-05-03 14:41:57	8	20	0	188,612.01	0	0	0	4.33	12.85	0000	