

**Инструкция по установке программного  
обеспечения «Медицинская информационная  
система Astra»**

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## 1. ВВЕДЕНИЕ

Программное обеспечение «Медицинская информационная система Astra» предназначено для создания, редактирования и публикации персональных веб-сайтов с уникальными доменными именами в доменных зонах третьего и четвертого уровней и предоставления свободного доступа к нему для пользователей сети Интернет.

Функции программного обеспечения предназначены для предоставления пользователям следующих возможностей:

- наличие у персонального веб-сайта уникального доменного имени;
- свободный доступ к персональному веб-сайту любого пользователя сети Интернет;
- добавление, изменение и удаление данных размещенных на страницах персонального веб-сайта;
- инструменты для размещения текста, изображений, аудио и видео материалов;
- изменение внешнего вида персонального веб-сайта, с использованием как стандартных (заложенных в программное обеспечение), так и персональных (созданных пользователем) решений для дизайна персонального веб-сайта;
- SEO-оптимизация;
- использование собственных доменных имен пользователей.

Способ распространения программного обеспечения: Интернет-сервис.

Программное обеспечение «Медицинская информационная система Astra» предоставляется в виде Интернет-сервиса, соответственно пользователь не производит настройку программного обеспечения «Медицинская информационная система Astra» самостоятельно, подключаясь к уже настроенному и готовому к работе программному обеспечению.

Информация о месте нахождения (фактические адреса):

- Среда разработки - 123112, г. Москва, вн.тер.г.муниципальный округ Пресненский, наб. Пресненская, д.8, стр.1, этаж 2, ком 44х;
- Размещение разработчиков - 123112, г. Москва, вн.тер.г.муниципальный округ Пресненский, наб. Пресненская, д.8, стр.1, этаж 2, ком 44х;
- Служба поддержки пользователей - 123112, г. Москва, вн.тер.г.муниципальный округ Пресненский, наб. Пресненская, д.8, стр.1, этаж 2, ком 44х;
- Дата-центр, где развернут экземпляр программного обеспечения: 123060, г. Москва, ул. Берзарина, д. 36, стр. 3.

## 2. ДОСТУП К ЭКЗЕМПЛЯРУ ПРОГРАММНОГО ОБЕСПЕЧЕНИЯ

Эксперт может получить доступ к экземпляру программного обеспечения, выполнив следующие действия:

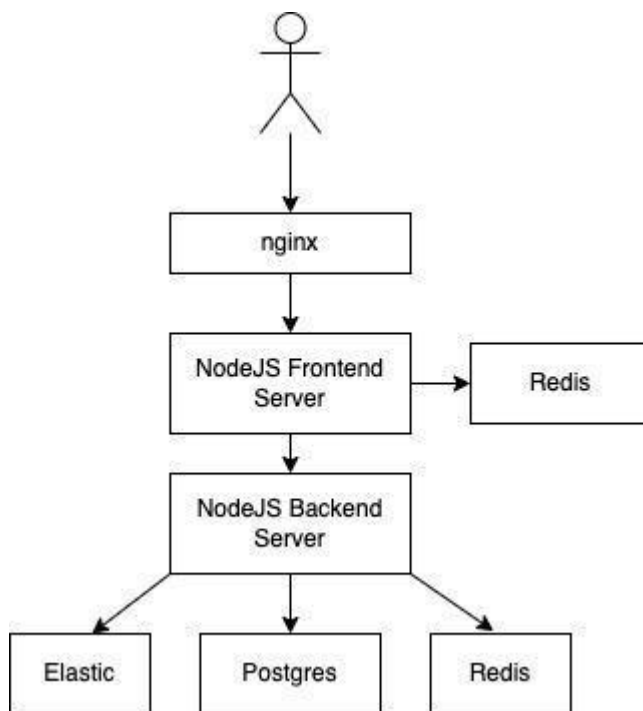
1. Доступ с помощью SSH, команда вида:

```
ssh gorod@77.105.172.209
user: gorod
password: HD*23ka=98Ks
```

2. После успешной авторизации на сервере открывается доступ к модулям экземпляра программного обеспечения. Компоненты расположены на этом же сервере. Ниже в описании компонентов для каждого компонента приводится его назначение.

### 3. СТРУКТУРА ПРОГРАММНОГО ОБЕСПЕЧЕНИЯ

Компоненты экземпляра продукта



ПО представляет собой монолитное веб-приложение, созданное на основе NodeJS с использованием фреймворка NestJS

В качестве базы данных и основного источника данных используется PostgreSQL. Elasticsearch используется для оптимизации поисковых запросов. Redis для хранения очередей событий по оповещениям на бекенде и для хранения сессий пользователей на фронтенд сервере.

Клиентская часть базируется на библиотеке React

### 4. СТРУКТУРА КАТАЛОГОВ СИСТЕМЫ И ИХ ФУНКЦИОНАЛЬНОЕ НАЗНАЧЕНИЕ

Все основные компоненты располагаются в директории `/opt/chaika-cms`

`/opt/chaika-cms/backend` - REST API приложения

`/opt/chaika-cms/frontend/cms/server` - фронтальный сервер для проксирования запроса на бекенд и хранения сессий пользователей

`/opt/chaika-cms/frontend/cms/client` - шаблоны html фронтальная часть приложения

/opt/chaika-cms/packages - общие пакеты для фронтенда и бэкенда

/opt/chaika-cms/types - описание типов бэкенда и фронтенда

**Таблица 1 - Лицензии библиотек, фреймворков, языков программирования, использованных при разработке компонентов сервиса “Медицинская информационная система Astra”, разработанных ООО “АСТРА ХЭЛС ТЕК”**

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react-export-excel	MIT	<a href="https://github.com/rdcal/e/react-export-excel/blob/master/LICENSE">https://github.com/rdcal/e/react-export-excel/blob/master/LICENSE</a>	<a href="https://github.com/rdcal/e/react-export-excel">https://github.com/rdcal/e/react-export-excel</a>
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react-simple-wysiwyg	MIT	<a href="https://github.com/megahertz/react-simple-wysiwyg/blob/master/LICENSE">https://github.com/megahertz/react-simple-wysiwyg/blob/master/LICENSE</a>	<a href="https://github.com/megahertz/react-simple-wysiwyg">https://github.com/megahertz/react-simple-wysiwyg</a>
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sprintf-js	BSD 3-Clause	<a href="https://github.com/alexei/sprintf.js/blob/master/LICENSE">https://github.com/alexei/sprintf.js/blob/master/LICENSE</a>	<a href="https://github.com/alexei/sprintf.js">https://github.com/alexei/sprintf.js</a>
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uuid	MIT	<a href="https://github.com/uuidjs/uuid/blob/main/LICENSE.md">https://github.com/uuidjs/uuid/blob/main/LICENSE.md</a>	<a href="https://github.com/uuidjs/uuid">https://github.com/uuidjs/uuid</a>
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xlsx	Apache License 2.0	<a href="https://github.com/SheetJS/sheetjs/blob/master/LICENSE">https://github.com/SheetJS/sheetjs/blob/master/LICENSE</a>	<a href="https://github.com/SheetJS/sheetjs">https://github.com/SheetJS/sheetjs</a>
yargs	MIT	<a href="https://github.com/yargs/yargs/blob/main/LICENSE">https://github.com/yargs/yargs/blob/main/LICENSE</a>	<a href="https://github.com/yargs/yargs">https://github.com/yargs/yargs</a>

**Таблица 2 - Список компонентов, разработанных ООО "АСТРА ХЭЛС ТЕК"**

Название сервиса	Тип сервиса	Команда для получения состояния сервиса	Директория исполняемых файлов / HTTP-адрес репозитория docker контейнеров	Сервер, где запущен сервис
бэкенд	rest api		/opt/chaika-cms/backend	77.105.172.209
фронтенд	Веб-приложение		/opt/chaika-cms/frontend	77.105.172.209

Правообладатель готов продемонстрировать работоспособность и функциональность Программного обеспечения, для чего просим связаться по следующим контактам:

телефон: +74956681403

почта: [astrahhealth@yandex.com](mailto:astrahhealth@yandex.com)