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Installation Guide

version 1.11.8

Web Server, LLC

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Contents

CHAPTER 1

Annotation

This document contains a step-by-step guide for deploying Angie PRO. Angie PRO is an efficient, powerful, and scalable web server.

CHAPTER 2

General Information

Angie PRO is the only commercial web server developed and localized in Russia.

A web server is a class of software that provides access to network resources via the HTTP protocol to end users. Angie PRO, for example, can be used to operate websites, mobile applications, self-service kiosks in the subway, and multimedia systems on long-distance trains. Every time a user opens a website, uses a mobile application, interacts with a self-service kiosk in the subway, or even with a multimedia system on the "Sapsan" train, the user's request can be processed by Angie PRO.

Angie PRO is:

- **A general-purpose web server.** Written in C.
- **An L4-L7 load balancer.** Allows load balancing between servers for both TCP/UDP protocols and HTTP.
- **A proxy and caching server.** Enables faster operation of web services through a flexible caching mechanism.
- **Available on all popular platforms.** Compiled and tested on Alpine, Debian, Oracle, RED OS, Rocky, and Ubuntu.
- **High performance.** One of the most efficient web servers in the world.

Why choose Angie PRO:

- **Compatibility with NGINX OSS.** Angie PRO is fully compatible with Nginx, allowing any existing Nginx user to transition to Angie PRO without significant costs or service downtime.
- **Enhanced statistics and real-time monitoring.** Angie PRO offers complete real-time server load monitoring, enabling dynamic configuration management based on load profiles and ensuring full service availability.
- **Dynamic configuration of proxied server groups.** Allows management of proxied server group settings through a convenient REST interface without service interruption.
- **Cache element removal.** Provides the ability to remove cache elements via a user-friendly API without service downtime.
- **Active health probes for proxied servers.** Checks for "liveness" and proxies only to those groups of proxied servers that respond according to a specified algorithm.
- **Dynamic key-value storage.** Enables dynamic management of Angie PRO configuration variables via HTTP API.

- **Dynamic DNS updates.**
- **Session-affinity proxying.**
- **Repository with dynamic third-party modules.** Angie PRO supports most NGINX third-party modules and allows for seamless installation, guaranteeing functionality and support.
- **Shared memory zone synchronization.** Capability to use cache zones, limit_req, etc., in the Angie PRO cluster.
- **Hiding or personal branding of the server name in response headers.** Ability to change or hide the name and version of the web server from users.

A list of foreign software with similar functional characteristics to Angie PRO includes Nginx, Nginx Plus, Apache, Envoy, products utilizing NGINX solutions (OpenResty, Tengine, Cloudflare), and Yandex's cloud solutions.

CHAPTER 3

Package Installation of Angie PRO

To access the package repository, you need to sign a contract and purchase a license. For questions about licenses, contracts, and custom builds, contact:

- info@wbsrv.ru
- https://angie.software/
- +7 (495) 120 50 33

Then, configure the repository for your distro's package manager to install and update Angie PRO and the *dynamic modules* you need. Finally, install the *license file* and remove the restrictions.

3.1 Distributions

Name	Versions	Architectures
AlmaLinux	10, 9, 8	x86-64, arm64
Alpine	3.23, 3.22, 3.21, 3.20	x86-64, arm64
Alt	11, 10 8	x86-64, arm64 x86-64
Astra SE	4.7 1.8, 1.7	arm64 x86-64
CentOS	10, 9	x86-64, arm64
Debian	13, 12, 11	x86-64, arm64
Fedora	44, 43	x86-64, arm64
FreeBSD	15, 14, 13	x86-64, arm64
MSVSphere	10, 9 8	x86-64, arm64 x86-64
openSUSE	16, 15	x86-64, arm64
Oracle Linux	10, 9, 8	x86-64, arm64
OSNova	3.3.0, 2.13	x86-64
RED OS	8, 7	x86-64, arm64
Rocky Linux	10, 9, 8	x86-64, arm64
ROSA	Chrome 13 Chrome 12 Fresh 12	x86-64 x86-64, arm64 x86-64
SberLinux	9	x86-64
Ubuntu	26.04, 24.04, 22.04	x86-64, arm64

3.1.1 Alma, CentOS, Fedora, MSVSphere, Oracle, RED OS, Rocky, ROSA, SberLinux

1. Create the `/etc/ssl/angie/` directory:

```
$ sudo mkdir -p /etc/ssl/angie/
```

2. Transfer the files you received with your license:

File Type	Original Name	Where to Place
Certificate	`angie-repo.crt`	`/etc/ssl/angie/angie-repo.crt`
Private Key	`angie-repo.key`	`/etc/ssl/angie/angie-repo.key`

Tip

If you have the license but not these files, email us at support@angie.software.

3. To add the repository, create the file `/etc/yum.repos.d/angie.repo` with the following content:

   Alma

```
[angie-pro]
name=Angie PRO repo
baseurl=https://download.angie.software/angie-pro/almalinux/$releasever/
sslclientcert=/etc/ssl/angie/angie-repo.crt
sslclientkey=/etc/ssl/angie/angie-repo.key
gpgcheck=1
enabled=1
gpgkey=https://angie.software/keys/angie-signing.gpg.asc
```

   CentOS

```
[angie-pro]
name=Angie PRO repo
baseurl=https://download.angie.software/angie-pro/centos/$releasever/
sslclientcert=/etc/ssl/angie/angie-repo.crt
sslclientkey=/etc/ssl/angie/angie-repo.key
gpgcheck=1
enabled=1
gpgkey=https://angie.software/keys/angie-signing.gpg.asc
```

   Fedora

```
[angie-pro]
name=Angie PRO repo
baseurl=https://download.angie.software/angie-pro/fedora/$releasever/
sslclientcert=/etc/ssl/angie/angie-repo.crt
sslclientkey=/etc/ssl/angie/angie-repo.key
gpgcheck=1
enabled=1
gpgkey=https://angie.software/keys/angie-signing.gpg.asc
```

   MSVSphere

```
[angie-pro]
name=Angie PRO repo
baseurl=https://download.angie.software/angie-pro/msvsphere/$releasever/
```

```
sslclientcert=/etc/ssl/angie/angie-repo.crt
sslclientkey=/etc/ssl/angie/angie-repo.key
gpgcheck=1
enabled=1
gpgkey=https://angie.software/keys/angie-signing.gpg.asc
```

Oracle

```
[angie-pro]
name=Angie PRO repo
baseurl=https://download.angie.software/angie-pro/oracle/$releasever/
sslclientcert=/etc/ssl/angie/angie-repo.crt
sslclientkey=/etc/ssl/angie/angie-repo.key
gpgcheck=1
enabled=1
gpgkey=https://angie.software/keys/angie-signing.gpg.asc
```

RED OS

```
[angie-pro]
name=Angie PRO repo
baseurl=https://download.angie.software/angie-pro/redos/$releasever/
sslclientcert=/etc/ssl/angie/angie-repo.crt
sslclientkey=/etc/ssl/angie/angie-repo.key
gpgcheck=1
enabled=1
gpgkey=https://angie.software/keys/angie-signing.gpg.asc
```

Rocky

```
[angie-pro]
name=Angie PRO repo
baseurl=https://download.angie.software/angie-pro/rocky/$releasever/
sslclientcert=/etc/ssl/angie/angie-repo.crt
sslclientkey=/etc/ssl/angie/angie-repo.key
gpgcheck=1
enabled=1
gpgkey=https://angie.software/keys/angie-signing.gpg.asc
```

ROSA Chrome

```
[angie-pro]
name=Angie PRO repo
baseurl=https://download.angie.software/angie-pro/rosa-chrome/$releasever/
sslclientcert=/etc/ssl/angie/angie-repo.crt
sslclientkey=/etc/ssl/angie/angie-repo.key
gpgcheck=1
enabled=1
gpgkey=https://angie.software/keys/angie-signing.gpg.asc
```

ROSA Fresh

```
[angie-pro]
name=Angie PRO repo
baseurl=https://download.angie.software/angie-pro/rosa/$releasever/
sslclientcert=/etc/ssl/angie/angie-repo.crt
sslclientkey=/etc/ssl/angie/angie-repo.key
gpgcheck=1
```

```
enabled=1
gpgkey=https://angie.software/keys/angie-signing.gpg.asc
```

SberLinux

```
[angie-pro]
name=Angie PRO repo
baseurl=https://download.angie.software/angie-pro/sberlinux/$releasever/
sslclientcert=/etc/ssl/angie/angie-repo.crt
sslclientkey=/etc/ssl/angie/angie-repo.key
gpgcheck=1
enabled=1
gpgkey=https://angie.software/keys/angie-signing.gpg.asc
```

4. Install the Angie PRO package:

```
$ sudo yum install -y angie-pro
$ # -- OR --
$ sudo dnf install -y angie-pro
```

5. (*Optional*) Install any *extra* packages you need:

```
$ sudo yum install -y <PACKAGE NAME>
$ # -- OR --
$ sudo dnf install -y <PACKAGE NAME>
```

6. Start the service:

```
$ sudo systemctl start angie
```

7. To automatically start Angie PRO after server reboot:

```
$ sudo systemctl enable angie
```

3.1.2 Alpine

1. Transfer the files you received with your license:

File Type	Original Name	Where to Place
Certificate	`angie-repo.crt`	`/etc/apk/cert.pem`
Private Key	`angie-repo.key`	`/etc/apk/cert.key`

Tip

If you have the license but not these files, email us at support@angie.software.

2. Install the helper packages for adding the Angie PRO repository:

```
$ sudo apk update
$ sudo apk add curl ca-certificates
```

3. Download the public key of the Angie PRO repository for package verification:

```
$ sudo curl -o /etc/apk/keys/angie-signing.rsa \
           https://angie.software/keys/angie-signing.rsa
```

4. Add the Angie PRO repository:

```
$ echo "https://download.angie.software/angie-pro/alpine/v$(egrep -o \
      '[0-9]+\.[0-9]+' /etc/alpine-release)/main" \
      | sudo tee -a /etc/apk/repositories > /dev/null
```

5. Update the repository indexes:

```
$ sudo apk update
```

6. Install the Angie PRO package:

```
$ sudo apk add angie-pro
```

7. (*Optional*) Install any *extra* packages you need:

```
$ sudo apk add <PACKAGE NAME>
```

8. Start the service:

```
$ sudo service angie start
```

9. To automatically start Angie PRO after server reboot:

```
$ sudo rc-update add angie
```

3.1.3 Alt

1. Create the `/etc/ssl/angie/` directory:

```
$ sudo mkdir -p /etc/ssl/angie/
```

2. Transfer the files you received with your license:

File Type	Original Name	Where to Place
Certificate	`angie-repo.crt`	`/etc/ssl/angie/angie-repo.crt`
Private Key	`angie-repo.key`	`/etc/ssl/angie/angie-repo.key`

Tip

If you don't have these files but have a license, contact support: support@angie.software.

3. Download the public key of the Angie PRO repository for package verification:

```
$ curl -o ~/angie-signing.gpg https://angie.software/keys/angie-signing.gpg && \
      sudo gpg --no-default-keyring --keyring /usr/lib/alt-gpgkeys/pubring.gpg -
↪-import ~/angie-signing.gpg
```

4. Save the key signature:

```
$ echo 'simple-key "angie-pro" {
          Fingerprint "EB8EAF3D4EF1B1ECF34865A2617AB978CB849A76";
          Name "Angie PRO (Signing Key) <devops@tech.wbsrv.ru>";
  }' | sudo tee /etc/apt/vendors.list.d/angie.list > /dev/null
```

5. Add the Angie PRO repository:

   Alt 11

```
$ echo "rpm [angie-pro] https://download.angie.software/angie-pro/altlinux/11/
↪$(uname -m) main" \
    | sudo tee /etc/apt/sources.list.d/angie.list > /dev/null
```

Alt 10

```
$ echo "rpm [angie-pro] https://download.angie.software/angie-pro/altlinux/10/
↪$(uname -m) main" \
    | sudo tee /etc/apt/sources.list.d/angie.list > /dev/null
```

Alt SP 10

```
$ echo "rpm [angie-pro] https://download.angie.software/angie-pro/altlinux-sp/10/
↪ $(uname -m) main" \
    | sudo tee /etc/apt/sources.list.d/angie.list > /dev/null
```

Alt SP 8

```
$ echo "rpm [angie-pro] https://download.angie.software/angie-pro/altlinux-sp/8/
↪$(uname -m) main" \
    | sudo tee /etc/apt/sources.list.d/angie.list > /dev/null
```

6. Create the Angie PRO repository `apt` configuration file in `/etc/apt/apt.conf.d`:

```
$ ( echo 'Acquire::https::Verify-Peer "true";';
    echo 'Acquire::https::Verify-Host "true";';
    echo 'Acquire::https::SslCert     "/etc/ssl/angie/angie-repo.crt";';
    echo 'Acquire::https::SslKey      "/etc/ssl/angie/angie-repo.key";';
  )  | sudo tee -a /etc/apt/apt.conf >/dev/null
```

7. Update the repository indexes:

```
$ sudo apt-get update
```

8. Install the Angie PRO package:

```
$ sudo apt-get install -y angie-pro
```

9. (*Optional*) Install any *extra* packages you need:

```
$ sudo apt-get install -y <PACKAGE NAME>
```

10. Start the service:

```
$ sudo systemctl start angie
```

11. To automatically start Angie PRO after server reboot:

```
$ sudo systemctl enable angie
```

3.1.4 Astra SE

1. Create the `/etc/ssl/angie/` directory:

```
$ sudo mkdir -p /etc/ssl/angie/
```

2. Transfer the files you received with your license:

File Type	Original Name	Where to Place
Certificate	`angie-repo.crt`	`/etc/ssl/angie/angie-repo.crt`
Private Key	`angie-repo.key`	`/etc/ssl/angie/angie-repo.key`

Tip

If you don't have these files but have a license, contact support: support@angie.software.

Restrict access to the directory and files:

```
$ sudo chown -R _apt:nogroup /etc/ssl/angie/
```

3. Install the helper packages for adding the Angie PRO repository:

```
$ sudo apt-get update
$ sudo apt-get install -y apt-transport-https lsb-release \
              ca-certificates curl gnupg2
```

4. Download the public key of the Angie PRO repository for package verification:

```
$ sudo curl -o /etc/apt/trusted.gpg.d/angie-signing.gpg \
           https://angie.software/keys/angie-signing.gpg
```

5. Add the Angie PRO repository:

```
$ echo "deb https://download.angie.software/angie-pro/astra-se/$(egrep -o \
      '[0-9]+\.[0-9]+' /etc/astra_version) unstable main" \
      | sudo tee /etc/apt/sources.list.d/angie.list > /dev/null
```

6. To configure the repository, create a file `/etc/apt/apt.conf.d/90download-angie` with the following contents:

```
Acquire::https::download.angie.software::Verify-Peer "true";
Acquire::https::download.angie.software::Verify-Host "true";
Acquire::https::download.angie.software::SslCert     "/etc/ssl/angie/angie-repo.
↪crt";
Acquire::https::download.angie.software::SslKey      "/etc/ssl/angie/angie-repo.
↪key";
```

7. Update the repository indexes:

```
$ sudo apt-get update
```

8. (*Optional*) When running in Closed Software Environment mode (CSE), install the key package for verifying the authenticity of Angie PRO executable files:

```
$ sudo apt-get install -y angie-digsig-key
```

Update the CSE:

```
$ sudo update-initramfs -uk all
```

Then **restart the server**:

```
$ sudo shutdown -r now
```

9. Install the Angie PRO package:

```
$ sudo apt-get install -y angie-pro
```

10. (*Optional*) Install any *extra* packages you need:

```
$ sudo apt-get install -y <PACKAGE NAME>
```

3.1.5 Debian, Ubuntu

1. Create the `/etc/ssl/angie/` directory:

```
$ sudo mkdir -p /etc/ssl/angie/
```

2. Transfer the files you received with your license:

File Type	Original Name	Where
Certificate	`angie-repo.crt`	`/etc/ssl/angie/angie-repo.crt`
Private Key	`angie-repo.key`	`/etc/ssl/angie/angie-repo.key`

> **Tip**
>
> If you don't have these files but have a license, contact support: support@angie.software.

Restrict access to the directory and files:

```
$ sudo chown -R _apt:nogroup /etc/ssl/angie/
```

3. Install the prerequisites for adding the Angie PRO repo:

```
$ sudo apt-get update
$ sudo apt-get install -y apt-transport-https lsb-release \
              ca-certificates curl gnupg2
```

4. Download the public key of the Angie PRO repo for package verification:

```
$ sudo curl -o /etc/apt/trusted.gpg.d/angie-signing.gpg \
           https://angie.software/keys/angie-signing.gpg
```

5. Add the Angie PRO repo:

```
$ echo "deb https://download.angie.software/angie-pro/$(. /etc/os-release &&␣
↪echo "$ID/$VERSION_ID $VERSION_CODENAME") main" \
    | sudo tee /etc/apt/sources.list.d/angie.list > /dev/null
```

6. To configure the repo, create a file named `/etc/apt/apt.conf.d/90download-angie` with the following contents:

```
Acquire::https::download.angie.software::Verify-Peer "true";
Acquire::https::download.angie.software::Verify-Host "true";
Acquire::https::download.angie.software::SslCert     "/etc/ssl/angie/angie-repo.
↪crt";
Acquire::https::download.angie.software::SslKey      "/etc/ssl/angie/angie-repo.
↪key";
```

7. Update the repo indexes:

```
$ sudo apt-get update
```

8. Install the Angie PRO package:

```
$ sudo apt-get install -y angie-pro
```

9. (*Optional*) Install any *extra* packages you need:

```
$ sudo apt-get install -y <PACKAGE NAME>
```

3.1.6 OSNova

1. Install the prerequisites for adding the Angie PRO repo:

```
$ sudo apt-get update
$ sudo apt-get install -y ca-certificates curl
```

2. Download the public key of the Angie PRO repo for package verification:

```
$ sudo curl -o /etc/apt/trusted.gpg.d/angie-signing.gpg \
            https://angie.software/keys/angie-signing.gpg
```

3. Add the Angie PRO repo:

```
$ echo "deb https://download.angie.software/angie-pro/osnova/$(egrep -o \
       '[0-9]*' /etc/osnova_version | head -1) \
       $(. /etc/os-release && echo "$VERSION_CODENAME") main" \
       | sudo tee /etc/apt/sources.list.d/angie.list > /dev/null
```

4. Update the repo indexes:

```
$ sudo apt-get update
```

5. Install the Angie PRO package:

```
$ sudo apt-get install -y angie
```

6. (*Optional*) Install any *extra* packages you need:

```
$ sudo apt-get install -y <PACKAGE NAME>
```

3.1.7 FreeBSD

1. To add the Angie PRO repo, create these directories:

```
$ sudo mkdir -p /usr/local/etc/pkg/angie/ /usr/local/etc/pkg/repos/
```

2. To configure the repo, create a file named `/usr/local/etc/pkg/repos/angie.conf` with the following contents:

```
angie: {
   url: "https://download.angie.software/angie-pro/freebsd/${VERSION_MAJOR}/$
↪{ARCH}",
   signature_type: "pubkey",
   pubkey: "/usr/local/etc/pkg/angie/angie-signing.rsa",
   enabled: yes
}
```

3. Download the public key of the Angie PRO repo for package verification:

```
$ sudo curl -o /usr/local/etc/pkg/angie/angie-signing.rsa \
            https://angie.software/keys/angie-signing.rsa
```

4. Transfer the files you received with your license:

File Type	Original Name	Where
Certificate	`angie-repo.crt`	`/usr/local/etc/pkg/angie/angie-repo.crt`
Private Key	`angie-repo.key`	`/usr/local/etc/pkg/angie/angie-repo.key`

Tip

If you don't have these files but have a license, contact support: support@angie.software.

5. Add the certificate and the key to the package manager's configuration:

```
$ echo '
  PKG_ENV: {
    SSL_CLIENT_CERT_FILE: "/usr/local/etc/pkg/angie/angie-repo.crt",
    SSL_CLIENT_KEY_FILE:  "/usr/local/etc/pkg/angie/angie-repo.key"
  }' | sudo tee -a /usr/local/etc/pkg.conf > /dev/null
```

6. Update the repo indexes:

```
$ sudo pkg update
```

7. Install the Angie PRO package:

```
$ sudo pkg install -r angie -y angie-pro
```

8. (*Optional*) Install any *extra* packages you need:

```
$ sudo pkg install -r angie -y <PACKAGE NAME>
```

9. Start the service:

```
$ sudo service angie start
```

10. To autostart Angie PRO after server reboot:

```
$ sudo sysrc angie_enable=YES
```

Note

Since the FreeBSD package manager may incorrectly determine the latest version, use the following approach to update already installed packages:

```
$ sudo pkg upgrade `pkg search -r angie angie-pro-[0-9] | sort -Vr | head -1 | awk
↪{'print $1'}`
```

3.1.8 openSUSE

1. Create the `/etc/ssl/angie/` directory:

```
$ sudo mkdir -p /etc/ssl/angie/
```

2. Transfer the files you received with your license:

File Type	Original Name	Where
Certificate	`angie-repo.crt`	`/etc/ssl/angie/angie-repo.crt`
Private Key	`angie-repo.key`	`/etc/ssl/angie/angie-repo.key`

Then combine them into a bundle `/etc/ssl/angie/angie-repo-bundle.crt`:

```
$ cat /etc/ssl/angie/angie-repo.crt /etc/ssl/angie/angie-repo.key | \
      sudo tee -a /etc/ssl/angie/angie-repo-bundle.crt > /dev/null
```

Tip

If you don't have these files but have a license, contact support: support@angie.software.

3. To add the repository, create a file named `/etc/zypp/repos.d/angie.repo` with the following contents:

```
[angie-pro]
enabled=1
autorefresh=1
baseurl=https://download.angie.software/angie-pro/opensuse/$releasever_major?ssl_
↪clientcert=/etc/ssl/angie/angie-repo-bundle.crt&ssl_verify=peer
gpgcheck=1
gpgkey=https://angie.software/keys/angie-signing.gpg.asc
```

4. Update the repo indexes:

```
$ sudo zypper refresh
```

5. Install the Angie PRO package:

```
$ sudo zypper install -y angie-pro
```

6. (*Optional*) Install any *extra* packages you need:

```
$ sudo zypper install -y <PACKAGE NAME>
```

7. Start the service:

```
$ sudo systemctl start angie
```

8. To automatically start Angie PRO after server reboot:

```
$ sudo systemctl enable angie
```

3.2 Extras

In addition to packages that provide core functionality, we also publish several additional packages, both our own and from selected third-party sources.

3.2.1 Console Light Web Panel

Console Light is a lightweight monitoring web panel for Angie PRO, published in our repositories as the `angie-pro-console-light` package. It's installed the same way as the `angie` package in the instructions above; for configuration instructions, see the monitoring section.

3.2.2 Dynamic Modules

To extend the basic functionality of Angie PRO, you can add various dynamic modules. You can get them as ready-made packages from our repository:

angie-pro-module-image-filter		Adds image transformations for JPEG, GIF, PNG, and WebP formats.
angie-pro-module-njs: (HTTP), JS (stream)	JS	Allow using the njs language (a subset of JavaScript) in Angie PRO configuration in `http` and `stream` contexts respectively.
angie-pro-module-perl		Allows writing `location` and variable handlers in Perl, as well as calling Perl from SSI.
angie-pro-module-xslt		Adds a filter that transforms XML responses using XSLT templates.

To apply an installed module in your configuration, load it using the load_module directive in the `main` context:

```
load_module modules/<module name>.so;
```

A wide range of third-party modules is also available.

3.3 License File

To configure the license for Angie PRO:

1. Save the license file as `/etc/angie/license.pem`, setting the same permissions you use for your client certificates.
2. Verify the license is valid; otherwise, check the details:

   ```
   $ sudo angie -t

     angie: Valid license found:
     angie:   - owner: CN=Angie Client License
     angie:   - period: Jul  8 21:00:00 2024 GMT .. Jul 17 20:59:59 2024 GMT
     angie:
     angie: Limitations:
     angie:   - worker_processes_limit: 8
     angie:   - worker_connections_limit: 0
   ```

3. Monitor the console and logs for any licensing issues. If the license expires during operation, Angie PRO periodically issues corresponding warnings. Additionally, on reload, configuration error messages will appear if, for example, the number of worker processes specified in the license terms is exceeded.
4. Modify the `/etc/angie/angie.conf` file; after installation, two parameters in it limit operation:

   ```
   worker_processes 1;
   worker_connections 256;
   ```

   After saving the license file, change them according to your license terms, for example:

```
worker_processes 8;
worker_connections 65535;
```

CHAPTER 4

Intellectual Property Rights

The documentation for the Angie PRO software product is the intellectual property of Web Server, LLC. The documentation was created as a result of modification (revision) of the documentation for the nginx software product.