![Pulse Secure logo]

Pulse One

Getting Started Guide

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Revision History

2016—Initial version.

The information in this document is current as of the date on the title page.

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Requesting Technical Support

Technical product support is available through the Pulse Secure Global Support Center (PSGSC). If you have a support contract, then file a ticket with PSGSC.

- Product warranties—For product warranty information, visit **https://www.pulsesecure.net**
- Find product documentation: **https://www.pulsesecure.net/techpubs/**
- Find solutions and answer questions using our Knowledge Base: **https://www.pulsesecure.net/support**

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You can open a case with PSGSC on the Web or by telephone.

- Use the Case Management tool in the PSGSC at **https://www.pulsesecure.net/support**.
- Call Phone: 1-844-751-7629 (Toll Free, US).

For international or direct-dial options in countries without toll-free numbers, see **https://www.pulsesecure.net/support**

Introduction

Pulse One is a management platform that provides unified management and troubleshooting for Pulse Connect Secure (PCS) and Pulse Policy Secure (PPS).

This document highlights the initial configuration using the Pulse One Command Line Interface (CLI).

First Time Setup

When accessing the Pulse One CLI for the first time, you are prompted to set up a user name and password for terminal access. Every subsequent accessing time, you will be prompted with "Press <Enter> to log into Pulse One". Please follow the on screen instructions to complete this step.
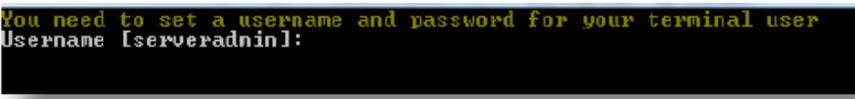
It is recommended that you use the latest software build. Please follow the instructions in the KB article: "Pulse One (PSA7000) Setup Guide" for more information.

In order to set up the Pulse One Appliance, we recommend that you have the following information handy before you begin the process:

- 1 Static IP Address along with:
  - Default Gateway
  - Network Mask
- 1 Unique Hostname
- 1 Unique Fully Qualified Domain Name
- Email Information – Optional:
  - SMTP server IP address of FQDN
  - SMTP server port
  - SMTP Username
  - SMTP Password
- Diagnose NTP client
  - NTP server IP address
- 1 Wildcard or SAN certificate (with the FQDN as the common name and the other two DNS entries as Subject Alternative Names)
- Certificates – RSA 2048-bit server certificates (please note that you are required to paste the contents of your key, cert, and ca-chain into the Pulse One Appliance CLI):
  - Public key in PEM format
  - Private key in PEM format
  - Certificate Chain in PEM format

- 3 DNS Records for Pulse One:
    - DNS entry for the Pulse One FQDN. Example: pulseone.example.com
    - DNS entry for Pulse One API Access. Example: api.example.com
    - DNS entry for Pulse One UI Access. Example: ui.example.com
- 1 Administrative Email Address – to set up Pulse One Super Admin account

CLI Commands

This section lists all the commands that are available on the Pulse One Command Line Interface.

Help
Network Setup
Configure HTTPS
Add Licenses
Create Pulse One Domain
Manage Services
View logs

Help

You can get a list of all commands, or get help on individual commands.

To get started, type **help**.

```
Pulse One > help
Usage:  [OPTIONS] COMMAND [ARGS]...

   Pulse One

Options:
  --help   Show this message and exit.

Commands:
  help              Show command help
  https             Configure HTTPS SSL/TLS settings
  licenses          Manage licenses
  log-aggregator    Manage log-aggregator component settings.
  logout            Log out
  network           Configure network settings
  ntp               A command to configure and diagnose problems...
  services          Manage services
  smtp              Configure SMTP settings
  system            Manage system
Pulse One >
```

To get help on sub-commands, type the following command:

`help <command>`

 or

`<command> --help`

Network Setup

Configure network interfaces

To configure the internal and external interfaces, type the following commands:

`network interface internal --ip <ip address> --netmask <netmask address>`

`network interface external --ip <ip address> --netmask <netmask address> --gateway <gateway address>`

ⓘ **Note:**

- The external interface requires gateway IP.
- Network **internal | external** interfaces no longer take **enable | disable** options. In order to disable internal interface, disconnect network connection; for example, physically unplug the internal interface network cable.

Configure DNS

To configure the primary and secondary DNS addresses, type the following command:

`network dns -p <ip> -s <ip>`

Configure hostname

To configure the Pulse One hostname, type the following command:

`network hostname <hostname>`

To verify the hostname change, type the following command:

`network show`

Configure SMTP

```
Pulse One > help smtp
Usage: smtp [OPTIONS] COMMAND [ARGS]...

   Configure SMTP settings

Options:
   --help  Show this message and exit.

Commands:
   set    Modify SMTP configuration
   show   Show SMTP settings
```

To configure the SMTP settings, type the following command:

smtp set --sender <from email address> -s <server address> -p <port> -u <username> --password

---

ⓘ **Note:** The --password option will prompt for a password.

To verify the SMTP settings change, type the following command:

smtp show

Configure NTP

```
Pulse One > help ntp
Usage: ntp [OPTIONS] COMMAND [ARGS]...

   A command to configure and diagnose problems with ntp client

Options:
   --help  Show this message and exit.

Commands:
   pool    Add or update NTP pool See...
   remove  Remove server or pool.
   server  Add or update NTP server See...
   show    Show NTP settings
Pulse One >
```

To configure the NTP settings, type the following command:

ntp server <ntp server address> --enable

To verify the NTP settings change, type the following command:

ntp show

Configure HTTPS

ⓘ **Note:** Each "set" command will prompt you to paste certificate info from the PEM files.

```
Pulse One > help https
Usage: https [OPTIONS] COMMAND [ARGS]...

  Configure HTTPS SSL/TLS settings

Options:
  --help  Show this message and exit.

Commands:
  set   Set HTTPS settings
  show  Show HTTPS setting
Pulse One >
```

To set the key (key file typically has .key extension), type the following command:

https set key

To set the certificate (certificate file typically has .crt extension), type the following command:

https set cert

To set the CA bundle (CA bundle file typically has .ca-bundle or .crt extension), type the following command:

https set ca-bundle

To verify the certificate setting, type the following command:

https show cert

Add Licenses

To add a license, type the following command:

licenses add <license key>

```
Pulse One > help licenses
Usage: licenses [OPTIONS] COMMAND [ARGS]...

  Manage licenses

Options:
  --help  Show this message and exit.

Commands:
  add  Add license KEY to system
```

Create Pulse One Domain

You need to initialize database and create single domain name.

To create the domain name, type the following command:

system provision <Pulse One FQDN> --admin-username <username> --admin-email <admin email address>

Where pulseone.example.com is an example of an FQDN.

ℹ **Note:** You will be prompted for a password.

```
Pulse One > help system
Usage: system [OPTIONS] COMMAND [ARGS]...

  Manage system

Options:
  --help  Show this message and exit.

Commands:
  destroy    Reset appliance to factory defaults.
  provision  Provision new Pulse One environment
  reboot     Reboot system
  upgrade    Upgrade Pulse One.
Pulse One >
```

Manage Services

You can start a service and view its status.

```
Logged in as skedlaya
Pulse One > help services
Usage: services [OPTIONS] COMMAND [ARGS]...

  Manage services

Options:
  --help  Show this message and exit.

Commands:
  logs     View logs for SERVICE(s) By default only app...
  restart  Restart SERVICE(s) By default all services...
  start    Start all services
  status   Service status
  stop     Stop all services
Pulse One >
```

To start the service, type the following command:

services start

To view the service status, type the following command:

services status

For additional help about services, type the following command:

services --help

View logs

To view the service logs, type the following command:

`services logs`

Launch Management Console

To launch the management console, go to the "Address" bar in your browser and type the management console address:

https://pulseone.example.com

Where pulseone.example.com is the FQDN as configured in the create domain step above.

To log into the management console, use the username and password created in the "Create Pulse One Domain" step.