# Single Node Deployment

This guide contains instructions on how to install VoipNow on a single computing node or upgrade the software deployed on a single node.


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Fast Track
If you want to skip reading this document, you can go and use the **Command Line Installer**.

It provides adequate support for all environments.

## Compatibility

### Hardware compatibility list

Before you start the installation, make sure that your hardware is supported by checking the Hardware Compatibility List (HCL).

By using virtualization, you do not need to worry anymore about the hardware your virtual machine runs on!

### Virtualization

VoipNow is designed to take advantage of server virtualization techniques. Virtualization is at the foundation of cloud services and VoipNow is a software system designed for the cloud.

Therefore, we strongly recommend to install VoipNow in a virtualized environment. We support VMware vSphere, Virtuozzo, OpenStack or Citrix XenServer.

Virtualization brings many management advantages, as well as superior resource abstraction and disaster recovery capabilities.

All public cloud services use virtualization. If you use such a cloud service, it's not important what technology is used.

### Operating system

VoipNow is compatible with the Linux distributions:

- Almalinux 8 (x86_64),
- Rocky Linux 8 (x86_64)
- Red Hat Enterprise Linux 8 (x86_64) (subscription required)

## Installation

VoipNow can be installed in multiple ways, based on your environment and requirements. You will find all possible options below.

### Your own infrastructure

We assume that you have access to your server in one of the following ways:

- direct or remote access to physical machine
- access to a virtualized environment running on a physical machine controlled by a third-party

This usually happens when you are managing you own private cloud.

#### No operating system installed

Virtualize your server first using one of the recommended virtualization techniques. Once you have virtualized your machine, you can:

- **VMware vSphere** - Install VoipNow using the VMware image or using Command Line Installer
- **Virtuozzo** - using Command Line Installer
- **Citrix XenServer** - Deploy one of the supported operating systems described above and install VoipNow using the Command Line Installer.

### Operating system installed

If the operating system is supported by VoipNow, you must use the Command Line Installer.

## VoipNow Cloud OnDemand

4PSA provides a turnkey cloud solution for customers that do not want to care about the infrastructure, software maintenance or server administration work. 4PSA Cloud OnDemand is available on 6 regions on 3 continents and its reach continues to expand.

In this case, you do not have to install anything on your own - everything comes installed and ready to use. For more information, please check the VoipNow Cloud onDemand.

Free Evaluation Available

Yes, we provide free evaluation for VoipNow Cloud onDemand Solution!

## Infrastructure as a service

You can use VoipNow in any public cloud infrastructure (Amazon AWS, Google Compute Engine, Microsoft Azure). We provide an Amazon AMI mostly for demonstration purposes, because VoipNow can be easily packed for any cloud.

- **Amazon AWS cloud** - The installation is simplified using the VoipNow Amazon AMI.
- **Any other cloud** - Install VoipNow using the Command Line Installer.

# Upgrade

## Plan the upgrade

To guarantee the success of a system upgrade, make sure you:

- **Review the Release Notes** - Make sure that all software improvements are clear. If you need further details, do not hesitate to ask a question in our community.
- **Test the new version** - If you upgrade from an old version, it's always a good idea to install VoipNow on a test environment and make sure that it works as expected.
- **Schedule the upgrade** - Because the software upgrade might temporary affect services, it is highly recommended to perform the upgrade outside business hours.

## Perform the upgrade

The upgrade process depends on your installation environment.

### VMware vSphere

You must execute the VoipNow Command Line Installer or schedule the upgrade from the VoipNow web management interface.

### Virtuozzo

You must execute the VoipNow Command Line Installer or schedule the upgrade from the VoipNow web management interface.

### Citrix XenServer

You must execute the VoipNow Command Line Installer or schedule the upgrade from the VoipNow web management interface.

### Any other bare metal or cloud environment

You must execute the VoipNow Command Line Installer or schedule the upgrade from the VoipNow web management interface.