There has not been a lot of investigation on the minimum requirements for ACS to run normally, but some requirements are known.

General requirements

- Processor: Unknown
- RAM: At least 4 GB. Some people see intermittent behavior at this limit
- Storage: 10 GB

Requirements by service

You may decide to distribute the core ACS services into several machines, in which case the general requirements don't apply completely. In this case take into consideration the specific service's requirements when available.

Service	Requirements	Details
loggingService	At least 4GB of RAM. Some people see intermittent behavior at this limit	**ACS-12** - Errors when running ACS in a Virtual Machine with less than 4 GB (4096MB) of ram TO DO

The officially supported OS is the 64 bit version of "Red Hat Enterprise Linux Server release 7.6 (Maipo)". We're also successfully using its clone "CentOS 7.6". There are other Linux distributions that are also compatible with subtle changes or none at all.

Official:

- RHEL 7.6 (Maipo)
- CentOS 7.6
- RHEL 8.5 (Ootpa) – ACS Prerequisites - RHEL 8 / CentOS 8 / CentOS Stream 8
- CentOS Stream 8 – ACS Prerequisites - RHEL 8 / CentOS 8 / CentOS Stream 8

Under Test:

- CentOS Stream 9 – ACS Prerequisites - RHEL 9 / CentOS Stream 9
- Fedora 34/35/36 – ACS Prerequisites - Fedora
- Debian 10/11 – ACS Prerequisites - Debian
- Ubuntu 20.04/22.04 – ACS Prerequisites - Ubuntu

Known to work in the past (Some efforts may be needed to make it work again):

- Cygwin (Windows) – ACS Prerequisites - Windows - Cygwin

For the current compatibility status, pleaste take a look at ACS Operating System Support.

For all machines the expected kernel (Other Kernel versions do work, but are not officially supported) are in the following list:

- RHEL 7: 3.10
- RHEL 8: 4.18
- RHEL 9: 5.14

The expected and actual versions of compilers, ORBs and various RPMs can be found by running the command =acsConfigReport=, both for required RPMs and for software shipped together with ACS. To get a rough overview before installing ACS, here are the most basic ones:

- gcc: 4.8.5 RHEL 7.6
- java: openjdk-11.0.4
- python: 2.7.16 and 3.6.9
- ACE: 6.4.3
- TAO: 2.4.3
- mico: 2.3.13
- JacORB: 3.9
- omniorb: 4.2.3

Most of the mentioned software is provided with ACS as ExtProd (External Products). The exceptions are gcc and java which in some cases can be installed with the operating system.

The operating system dependencies are:

- redhat-lsb-core
- ksh
- gcc
- gcc-c++
- gcc-fortran
- libX11-devel
- libffi-devel
- perl
- readline-devel
- bzip2

- bzip2-devel
- openssl-devel
- openldap-devel
- libxml2-devel
- freetype-devel
- libxslt-devel
- sqlite-devel
- expat-devel
- bison
- flex
- autoconf
- unzip
- dos2unix
- tcl-devel
- tk-devel

No specific version is specified, but only the ones provided with RHEL 7.6 (Maipo) and RHEL 8.5 (Santiago) are thoroughly tested.