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The work environment consists the preparation of the machine, obtaining and installing ACS and configuring your machine to load ACS environment.

Machine Preparation

The machine needs to satisfy the [ACS Prerequisites](#) for the operating system, or you would need to adapt ACS to the specific Operating System, which may end up being very complicated. It is possible to prepare a physical machine, a virtual machine or a container.

Prepare your machine with Centos7 / RHEL 7

After you have prepared the operating system in your physical or virtual machine, you need to install the prerequisites for the operating system as explained in [ACS Prerequisites](#) page.

Prepare a Docker container for development

It is also possible to prepare a container for working. It should be possible to use Vagrant, pods and other technology, but we've only tested Docker containers formally so far. You can find the specific instructions in [Development Docker](#) page.

Preparing ACS

Retriving ACS

There are instructions to retrieve ACS in the [Retrieving ACS](#) confluence page. Specifically, at this point, the ACS Release to use is 2020APR that can be found in branch "acs/2020APR".

Installing ACS

The instructions for installing ACS can be found in the [Installing ACS](#) confluence page.

ACS Environment

The instructions for preparing the ACS environment in your machine can be found in [Configuring ACS](#) page.

Directory Structure

ACS directory structure is a bit old-fashioned, but is very straightforward. A detailed description can be found in the [ACS Directory Structure](#) page.

Here will be a small project to be developed by a single person in either of the three supported languages (C++, Java and Python). In the meantime, the [ACS Workshop Material](#) will have to be enough. There are several presentations on essential ACS topics, and a project for which a single component could be implemented. The interfaces and required files to start working on the project can be found in the [ACS Workshop - Interfaces](#) page.

The idea is to implement one or two components from the available alternatives in one or more programming languages.

Technical Documents

There are several documents in the repository path 'ACS/Documents'. Some of them have been ported to [ACS Technical Documents](#) page.

Frequently Asked Questions

There is a long-lived knowledge base of [ACS Frequently Asked Questions](#). Some of them may be outdated, but they are a good source for looking into common issues.

Language Specific Guidelines

- [ACS Workshop - Hands On \(Environment Configuration Guidelines\)](#)
- [ACS Workshop - C++ Hands On](#)
- [ACS Workshop - Java Hands On](#)
- [ACS Workshop - Python Hands On](#)