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SonarQube - Docker installation

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SonarQube - Docker installation

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Would you like to learn how to install SonarQube using Docker on Ubuntu Linux? In this tutorial, we are going to show you all the steps required to perform the SonarQube installation using Docker on a computer running Ubuntu Linux in 5 minutes or less.

- Ubuntu 20.04
- Ubuntu 18.04
- Ubuntu 16.04

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Tutorial SonarQube - Docker Installation

Edit the system configuration file.

```
1 vi /etc/sysctl.conf
```

Insert the following lines at the end of this file.

```
1 vm.max_map_count=262144
2 fs.file-max=65536
```

Enable the system configuration.

```
1 sysctl -p
```

Create a configuration file named 99-sonarqube.conf.

```
1 vi /etc/security/limits.d/99-sonarqube.conf
```

Here is the file content.

```
1 root - nofile 65536
2 root - nproc 7610
```

Reboot the computer.

```
1 reboot
```

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```
1 apt-get update
2 apt-get install docker.io
```

Download the SonarQube Docker image from the online repository.

```
1 docker pull sonarqube
```

List the Docker images installed on your system.

```
1 docker images
```

Here is the command output:

1	REPOSITORY	TAG	IMAGE ID	CREATED
2	sonarqube	latest	3287e6831017	3 weeks ago

Create Docker volumes to store the SonarQube persistent data.

```
1 docker volume create sonarqube-conf
2 docker volume create sonarqube-data
3 docker volume create sonarqube-logs
4 docker volume create sonarqube-extensions
```

Verify the persistent data directories.

```
1 docker volume inspect sonarqube-conf
2 docker volume inspect sonarqube-data
3 docker volume inspect sonarqube-logs
4 docker volume inspect sonarqube-extensions
```

Optionally, create symbolic links to an easier access location.

```
1 mkdir /sonarqube
2 ln -s /var/lib/docker/volumes/sonarqube-conf/_data /sonarqube/conf
3 ln -s /var/lib/docker/volumes/sonarqube-data/_data /sonarqube/data
4 ln -s /var/lib/docker/volumes/sonarqube-logs/_data /sonarqube/logs
```

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```
1 docker run -d --name sonarqube -p 9000:9000 -p 9092:9092 -v sonarqube-conf:
```

Here is the command output:

```
1 348b4ab00defe8e3621a61e5899d4eb04dd533046fce4cf2c5b0163f0717bd50
```

In our example, the SonarQube image was used to start a new container.

The new container has persistent data storage.

The container ID is

348b4ab00defe8e3621a61e5899d4eb04dd533046fce4cf2c5b0163f0717bd50.

Tutorial Docker - SonarQube installation

Open your browser and enter the IP address of your web server plus :9000

In our example, the following URL was entered in the Browser:

- <http://192.168.15.10:9000>

The SonarQube dashboard will be presented.

Click on the Login button and use the Sonarqube default username and password.

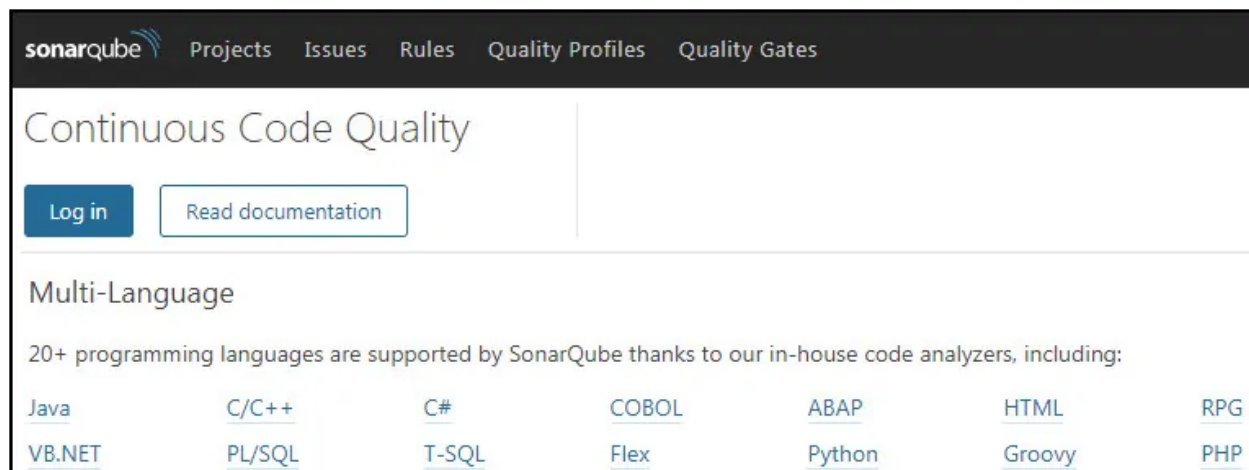
- Default Username: admin
- Default Password: admin



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Congratulations! You have finished the SonarQube Docker installation.

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Tutorial SonarQube - Docker container management

Verify the containers status using the following command:

```
1 docker ps -a
```

Verify the status of a container.

```
1 docker ps -a -f name=sonarqube
```

To stop a container, use the following command:

```
1 docker stop <container_id>
```



```
1 docker container start sonarqube
```

To restart a container, use the following command:

```
1 docker container restart sonarqube
```

In case of error, use the following command to verify the container logs.

```
1 docker logs sonarqube
```

In our examples, we demonstrated how to manage SonarQube containers.

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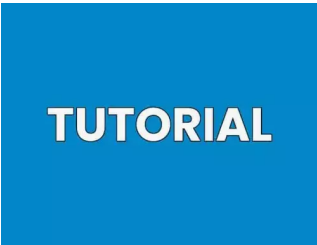
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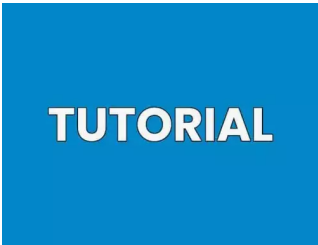
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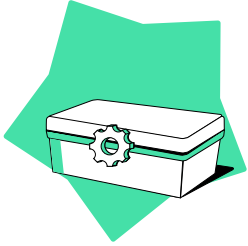


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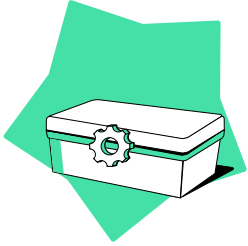
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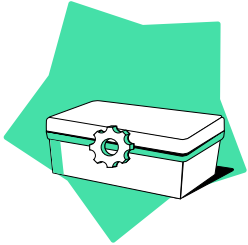
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