# Deployment script for production

## Prior steps

This guide is aimed to deploy the coda-site-node for the sites that are part of the coda project.

You must have received a communication by the CODA team in which the id of your hospital and the vault secret are given to your team.

A virtual machine using rocky linux 9

(<https://download.rockylinux.org/pub/rocky/9/isos/x86_64/Rocky-9.2-x86_64-minimal.iso>)

with the following specs must be created :

8 cores/vCPUs and 16 GB RAM

GPU: RTX 2080 or better NVIDIA-compatible GPU

Disks: OS - 100 GB, data - 512 GB

Make sure all the packages and the os is up to date by running the following command inside the virtual machine :

$sudo yum update -y

$sudo reboot

The following steps are run inside the updated Rocky linux machine

# deploy-scripts

Deployment scripts for the different CODA components.

## Bootstrap

All below steps must be run as «root» by using

$sudo su -

### Install package dependencies

Ensure curl is installed:

$yum install -y curl

### Export proxy

If current host doesn't have direct internet access and needs to use a proxy, simply adjust PROXY variable and export:

$export PROXY=http://<hostname>:<port>

$export HTTP\_PROXY=${PROXY}

$export HTTPS\_PROXY=${PROXY}

$export http\_proxy=${PROXY}

$export https\_proxy=${PROXY}

Also, ensure that the following URLs are whitelisted in your proxy server:

|  |  |
| --- | --- |
| **URL** | **Purpose** |
| [http://mirror.centos.org](http://mirror.centos.org/)  <http://centos.mirror.iweb.ca/>  <http://dl.fedoraproject.org/> | Installing software packages (yum) |
| [https://github.com](https://github.com/)  [https://github-releases.githubusercontent.com](https://github-releases.githubusercontent.com/) | Pulling deployment code.  Pulling various artifacts (ie: node\_exporter) |
| [https://license.aidbox.io](https://license.aidbox.io/) | Validating Aidbox Licence |
| [https://dl.min.io](https://dl.min.io/) | Downloading Min.IO artifacts. |
| [https://hub.docker.com](https://hub.docker.com/)  [https://production.cloudflare.docker.com](https://production.cloudflare.docker.com/)  [https://registry-1.docker.io](https://registry-1.docker.io/)  [https://auth.docker.io](https://auth.docker.io/) | Pulling Docker images for Aidbox software |
| [https://heartbeat.hub.coda19.com](https://heartbeat.hub.coda19.com/) | Sending heartbeat to control plane (hub) |

### Bootstrapping

Download the bootstrap script and execute it:

$curl -s https://raw.githubusercontent.com/coda-platform/site-deployer-ansible/main/scripts/bootstrap.sh \

-o bootstrap.sh

$bash bootstrap.sh

At the end, you'll be asked a few questions necessary to complete the bootstrap process:

* Your SITE ID, provided by CODA
* Your VAULT PASSWORD, provided by CODA
* Proxy server, only if needed for bootstrapping process. (press enter to skip)

The boostrap script instantiates a cronjob for the root user which executes a ansible-pull every 10 minutes.

A screenshot of a computer

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The Ansible pull that instantiate the Node runs each 10 minutes. To see the logs, if it ran correctly, run this command:

$cd /var/log/ansible

$ls -ll

$cat ansible-pull-YYYMMDD-HHMMSS.log

A screenshot of a computer

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### \*\* WHEN NEEDING TO RESTART BOOTSTRAP PROCESS\*\*

$rm -rf /opt/coda/ \  
$       /etc/ansible/facts.d/ \  
$       /etc/profile.d/ansible.sh \  
$       /etc/profile.d/env-ansible.sh \  
$       /usr/local/bin/env-ansible.sh

### Final Ouput

A computer screen with white text

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