

# Documentation Stork



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IP du serveur : `address 172.20.58.46/16`

Installation de sudo : `root@SRV-STORK:~# apt install sudo`

Installation de curl : `root@SRV-STORK:~# sudo apt install curl`

Ajout du dépôt stork puis installation :

```
root@SRV-STORK:~# curl -1sLf 'https://dl.cloudsmith.io/public/isc/stork/cfg/setup/bash.deb.sh' | sudo bash
```

```
root@SRV-STORK:~# sudo apt update
```

```
root@SRV-STORK:~# sudo apt install isc-stork-server
```

Paramétrage de Postgre :

```
root@SRV-STORK:~# sudo apt install postgresql postgresql-contrib
```

```
sudo -u postgres stork-tool db-create --db-name storkdb --db-user StorkUser
```

!!! Sensible à la casse pour le nom de la base de données !!!

Données :

```
Created database and user for the server with the following credentials
```

```
database_name="storkdb"
```

```
password="0+lQKoVF65v/9cRxVFPrJ0vVEar4iIvm"
```

```
user="StorkUser"
```

Lien base de données à Stork :

```
sudo nano /etc/stork/server.env
```


## Modifier :

```
sio@SRV-STORK: ~  
GNU nano 7.2  
### database settings  
### the address of a PostgreSQL database  
STORK_DATABASE_HOST=127.0.0.1  
### the port of a PostgreSQL database  
# STORK_DATABASE_PORT=  
### the name of a database  
STORK_DATABASE_NAME=storkdb  
### the username for connecting to the database  
STORK_DATABASE_USER_NAME=StorkUser  
### the SSL mode for connecting to the database  
### possible values: disable, require, verify-ca, or verify-full  
# STORK_DATABASE_SSLMODE=  
### the location of the SSL certificate used by the server to connect to the database  
# STORK_DATABASE_SSLCERT=  
### the location of the SSL key used by the server to connect to the database  
# STORK_DATABASE_SSLKEY=  
### the location of the root certificate file used to verify the database server's certificate  
# STORK_DATABASE_SSLROOTCERT=  
### the password for the username connecting to the database  
### empty password is set to avoid prompting a user for database password  
STORK_DATABASE_PASSWORD=0+lQKoVF65v/9cRxVFPrJ0vVEar4iIvm
```

## Redémarrage du service :

```
sudo systemctl enable isc-stork-server  
sudo systemctl start isc-stork-server
```

## Interface web :

 **Non sécurisé** 172.20.58.46:8080/login?returnUrl=%2Fdashboard



# Stork

version: 2.0.0

## Dashboard for ISC Kea and ISC BIND 9

Email/Login

Password



Sign In

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Changer le mot de passe (ici, stork123 en exemple) :

## Change password


**You must change your password. Please enter**  
**ⓘ your current password and create a new one to**  
**continue.**

### New password setting


Current password


.....

New password

.....

Confirm password

.....|

 Save

**Installation de l'agent Stork pour le serveur KEA DHCP configuré précédemment :**

```
root@SRV-KEA:~# sudo apt update
root@SRV-KEA:~# sudo apt install kea-ctrl-agent
root@SRV-KEA:~# sudo nano /etc/kea/kea-dhcp4.conf
```

**Rajouter :**

```
{
  "Dhcp4": {
    "control-socket": {
      "socket-type": "unix",
      "socket-name": "/run/kea/kea4-ctrl-socket"
    },
    "hooks-libraries": [
      {
        "library": "/usr/lib/x86_64-linux-gnu/kea/hooks/libdhcp_stat_cmds.so"
      },
      {
        "library": "/usr/lib/x86_64-linux-gnu/kea/hooks/libdhcp_lease_cmds.so"
      }
    ],
    // Interface réseau sur laquelle le service DHCP doit être en écoute
    "interfaces-config": {
      "interfaces": [ "enp0s3" ]
    },

    // Durée des baux DHCP (bail de 8 jours, renouvelable à partir de 4 jours)
    "valid-lifetime": 691200,
    "renew-timer": 345600,
    "rebind-timer": 604800,

    // Serveur DHCP principal sur ce réseau local
    "authoritative": true,

    // Configuration de la base des baux DHCP
    "lease-database": {
      "type": "memfile",
      "persist": true,
      "name": "/var/lib/kea/kea-leases4.csv",
      "lfc-interval": 3600
    },

    "subnet4": [
      {
        "subnet": "172.20.58.0/16",
        "pools": [ { "pool": "172.20.58.1 - 172.20.58.20" } ],
        "option-data": [
          {
            "name": "domain-name-servers",
            "data": "172.20.58.201"
          },
          {
            "name": "domain-search",
            "data": "SIU.local"
          },
          {
            "name": "routers",
            "data": "172.20.2.254"
          }
        ]
      }
    ]
  }
}
```

**Redémarrer le service :**

```
root@SRV-KEA:~# sudo systemctl restart kea-dhcp4-server
```

**Installation du dépôt et du paquet :**

```
root@SRV-KEA:~# apt install curl
```

```
root@SRV-KEA:~# curl -sLf 'https://dl.cloudsmith.io/public/isc/stork/cfg/setup/bash.deb.sh' | sudo bash
```

```
root@SRV-KEA:~# sudo apt install isc-stork-agent
```

### Modification de la configuration de l'agent :

```
root@SRV-KEA:~# sudo nano /etc/stork/agent.env
```

### Modifier :

```
### the IP or hostname to listen on for incoming Stork server connections
STORK_AGENT_HOST=172.20.58.45

### the TCP port to listen on for incoming Stork server connections
# STORK_AGENT_PORT=

### listen for commands from the Stork server only, but not for Prometheus requests
STORK_AGENT_LISTEN_STORK_ONLY=true

### listen for Prometheus requests only, but not for commands from the Stork server
# STORK_AGENT_LISTEN_PROMETHEUS_ONLY=true

### settings for exporting stats to Prometheus
### the IP or hostname on which the agent exports Kea statistics to Prometheus
# STORK_AGENT_PROMETHEUS_KEA_EXPORTER_ADDRESS=
### the port on which the agent exports Kea statistics to Prometheus
# STORK_AGENT_PROMETHEUS_KEA_EXPORTER_PORT=
### how often the agent collects stats from Kea, in seconds
# STORK_AGENT_PROMETHEUS_KEA_EXPORTER_INTERVAL=
## enable or disable collecting per-subnet stats from Kea
# STORK_AGENT_PROMETHEUS_KEA_EXPORTER_PER_SUBNET_STATS=true
### the IP or hostname on which the agent exports BIND 9 statistics to Prometheus
# STORK_AGENT_PROMETHEUS_BIND9_EXPORTER_ADDRESS=
### the port on which the agent exports BIND 9 statistics to Prometheus
# STORK_AGENT_PROMETHEUS_BIND9_EXPORTER_PORT=
### how often the agent collects stats from BIND 9, in seconds
# STORK_AGENT_PROMETHEUS_BIND9_EXPORTER_INTERVAL=

### Stork Server URL used by the agent to send REST commands to the server during agent registration
STORK_AGENT_SERVER_URL=http://172.20.58.46:8080

### skip TLS certificate verification when the Stork Agent connects
### to Kea over TLS and Kea uses self-signed certificates
# STORK_AGENT_SKIP_TLS_CERT_VERIFICATION=true

### Logging parameters

### Set logging level. Supported values are: DEBUG, INFO, WARN, ERROR
# STORK_LOG_LEVEL=DEBUG
### disable output colorization
# CLICOLOR=false

### path to the hook directory
# STORK_AGENT_HOOK_DIRECTORY=
```

### Redémarrage du service :



```
root@SRV-KEA:~# sudo systemctl enable isc-stork-agent
root@SRV-KEA:~# sudo systemctl start isc-stork-agent
```

Ajout de la machine sur le serveur Stork :

Lors du rafraîchissement de la page, ce message apparaît :

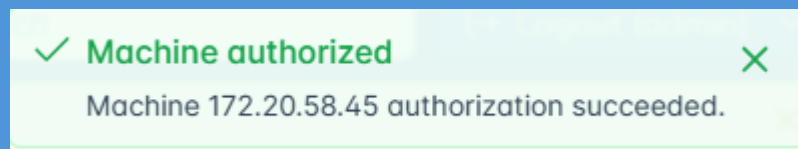
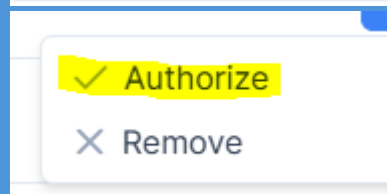
⚠ **Unregistered machines** Found 1 machine requesting registration and awaiting approval. Visit the list of [unauthorized machines](#) to review the requests.

Cliquer ici :

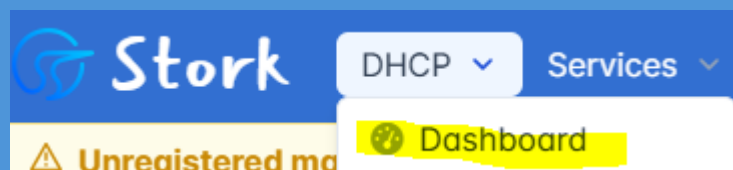
[unauthorized machines](#)

La machine configurée est maintenant visible ici (il faudra l'autoriser) :

<input type="checkbox"/>	172.20.58.45	172.20.58.45:8080	29FE278126F7D15F55954C5EDC05D0EB116B63B05739ED8C65CE713778C70388
--------------------------	--------------	-------------------	--



A présent, on peut voir les informations tels que les adresses DHCP attribuées par exemple :



DHCP Dashboard

DHCPv4

Subnets: 1

[1] 172.20.0.0/16 45% used  
[more](#)

Shared Networks: 0

[more](#)

Statistics

Addresses 9 / 20 (45% used)  
Declined 0

DHCPv6

Subnets: 0

[more](#)

Shared Networks: 0

[more](#)

Statistics

Addresses 0 / 0 (0% used)  
Prefixes 0 / 0 (0% used)  
Declined 0

Services Status

Host	App Version	App Name	Daemon	Status	RPS (15min)	RPS (24h)	HA State	Detected Failure w/HA	Uptime
SRV-KEA	Kea 2.2.0	kea@172.20.58.45	dhcp4	✓			not configured		15 min 46 s

Subnets 172.20.0.0/16

Subnet 172.20.0.0/16

DHCP Servers Using the Subnet

Server	Configured subnet ID
kea@172.20.58.45	1

Pools / All Servers

172.20.58.1-172.20.58.20

Statistics

Total Address Utilization (45%)

Free

Used

Declined

Total Addresses: 20

Assigned Addresses: 9

Free Addresses: 11

Used Addresses: 9

Declined Addresses: 0

## On peut même avoir les informations du serveur KEA :

> Services > Machines

Machines172.20.58.45 X

≡

172.20.58.45:8080✎

System Information

Address	172.20.58.45:8080
Hostname	SRV-KEA
Agent Version	2.0.0 ✓
CPU(s)	1
CPU(s) Load	? 0.00 0.00 0.00
Memory	1 GiB
Used Memory	6 %
Uptime	? days
OS	linux
Platform Family	debian
Platform	debian
Platform Version	12.8
Kernel Version	6.1.0-28-amd64
Kernel Arch	x86_64
Virtualization Role	guest
Virtualization System	vbox
Use HTTP credentials	? false
Host ID	04ebf7e2-8e87-4c49-a38a-629879381cf
Last Visited	2025-01-09 15:38:45

Get Latest State

Dump Troubleshooting Data

Applications

Kea App (kea@172.20.58.45)  
Version 2.2.0 ⚠  
✓ DHCPv4 ⌛ DHCPv6 ⌛ DDNS ✓ CA