

GNU/Linux Administration - Support #905

Install PiCluster on Ubuntu

07/08/2017 12:06 AM - Daniel Curtis

Status:	Closed	Start date:	07/09/2017
Priority:	Normal	Due date:	
Assignee:	Daniel Curtis	% Done:	100%
Category:	Jails / Container	Estimated time:	1.50 hour
Target version:	Ubuntu 14.04 / Derivative	Spent time:	1.00 hour

Description

This is a guide for installing PiCluster on Ubuntu 16.04.

Prepare the Environment

- Switch to root:

```
sudo -i
```

- Make sure the system is up to date:

```
apt-get update && apt-get upgrade
```

- Install prerequisites:

```
apt-get install docker git nodejs nodejs-legacy npm
```

- Start and enable docker at boot:

```
systemctl enable docker  
systemctl start docker
```

Install PiCluster

- Download the latest PiCluster version from GitHub:

```
git clone https://github.com/picluste/picluste.git /opt/picluste
```

- Edit the config.json file:

```
vi config.json
```

- And edit the config file to suit your environment:

NOTE: Use the `web_connect` key to the value of the host systems IP address. Otherwise you will get connection errors while starting the agent.

```
{  
  "token": "45FG9A23DE12045E20BB854AC",  
  "docker": "/opt/picluste/docker",  
  "server_port": "3000",  
}
```

```

"agent_port": "3001",
"layout": [
  {"node": "192.168.1.191", "mysql": "-p 3306:3306", "nginx": "-p 80:80"},
  {"node": "192.168.1.192", "openvpn": "-p 1194:1194"}],
"hb": [
  {"node": "192.168.1.191", "mysql": "3306", "nginx": "80"},
  {"node": "192.168.1.192", "openvpn": "1194"}
],
"vip": [
  {"node": "192.168.1.191", "vip_eth_device": "eth0", "slave": "192.168.1.192", "vip_ping_time": "10000"},
  {"node": "192.168.1.192", "vip_eth_device": "eth0", "slave": "192.168.1.191", "vip_ping_time": "15000"}
],
"commandlist": [{
  "SystemUpdate": "pacman -Syu --yes"
}],
"vip_ip": "192.168.1.202",
"autostart_containers": "enabled",
"rsyslog_logfile": "/var/log/syslog",
"rsyslog_host": "192.168.1.202",
"automatic_heartbeat": "enabled",
"heartbeat_interval": "300000",
"syslog": "dmesg",
"web_username": "admin",
"web_password": "admin",
"web_connect": "192.168.1.190",
"web_port": "3003"
}

```

- Install server:

```

cd /opt/picluster/
npm install

```

Init with pm2

- Install pm2:

```

npm install -g pm2

```

- Install the pm2 systemd init script as the picluster user:

```

pm2 startup systemd

```

- Export the picluster config filepath environment variable:

```

export PICLUSTER_CONFIG='/opt/picluster/config.json'

```

- Start the server, agent, and webconsole scripts:

```

pm2 start /opt/picluster/server/server.js
pm2 start /opt/picluster/agent/agent.js
pm2 start /opt/picluster/web/webconsole.js

```

- Save the pm2 session to restart at boot:

```
pm2 save
```

- Enable pm2 at boot:

```
systemctl enable pm2-root
```

Resources

- <https://github.com/rusher81572/picluster>

History

#1 - 07/08/2017 12:09 AM - Daniel Curtis

- Status changed from *New* to *In Progress*
- Start date changed from 07/08/2017 to 07/09/2017
- % Done changed from 0 to 30

#2 - 07/09/2017 09:53 PM - Daniel Curtis

- Description updated
- Status changed from *In Progress* to *Resolved*
- % Done changed from 30 to 100

#3 - 07/20/2017 10:44 PM - Daniel Curtis

- Description updated

#4 - 10/05/2017 07:06 PM - Daniel Curtis

- Description updated
- Status changed from *Resolved* to *Closed*