GNU/Linux Administration - Support #909

Install PiCluster on Arch Linux

08/10/2017 01:58 PM - Daniel Curtis

Status:	Closed	**Start date:**	08/10/2017
Priority:	Normal	**Due date:**	
Assignee:	Daniel Curtis	**% Done:**	100%
Category:	Jails / Container	**Estimated time:**	1.50 hour
Target version:	Arch Linux	**Spent time:**	0.00 hour

Description

This is a guide for installing PiCluster on Arch Linux.

Prepare the Environment

- Make sure the system is up to date:

```
pacman -Syu
```

- Install prerequisites:

```
pacman -S docker git nodejs 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/picluster/picluster.git /opt/picluster
cd /opt/picluster
```

- Create a config from the example config file:

```
cp config-example.json config.json
```

- 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/picluster/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_t
ime": "10000"},
        {"node":"192.168.1.192","vip_eth_device":"eth0","slave": "192.168.1.191", "vip_ping_ti
me": "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 and run server:

```
cd /opt/picluster/server
npm install
```

- Install and run agent:

```
cd ../agent
npm install
```

- Install and run web console:

```
cd ../web
npm install
```

- Exit back into root shell:

```
exit
```

Init with pm2

- Install pm2:

```
pacman -S 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
```

Resources

- https://github.com/picluster/picluster

History

#1 - 03/19/2018 08:32 PM - Daniel Curtis

- Status changed from New to Closed

- % Done changed from 0 to 100