

BAILY'S

Monit

Introduction

Bailys has now implemented the use of a monitoring service called Monit. This service is a program currently installed on the Camera Server which is setup to identify and attempt to resolve issues which may arise on the network in the event of power failure, or other network interruptions.

In order for everything to function properly, Monit monitors these devices:

- All seven Ubiquiti PoE TOUGH Switches
- Unifi Controller
- ZoneMinder
- Camera Server
- FreeNAS
- Ubuntu Camera Server Virtual iSCSI Disk
- Apache2

Installation

Installation is simple with Ubuntu, a simple *apt-get install monit*, with super user privileges will have Monit installed to begin monitoring of system services and resources. The trick is, the first startup of monit must also be done with a Super User access. Monit will run without Super User, however it will be unable to restart any applications, and will be limited to only monitoring, and sending alerts.

In order to provide Super User permissions, Monit can be installed after running the command `sudo -i`, or by first using “sudo” in front of the command. The preferred method is to simply run everything with `sudo`, instead of logging into root directly. Example: *sudo monit*

Features

Monit has the ability to monitor, restart, execute scripts, and send email alerts, all depending on the state of the service which it is monitoring. The `monitrc` file found in the directory `/etc/monit/monitrc`, is used to configure how Monit will handle the failure of a service or device within the network.

Setup

Bailys implements Monit to monitor the Ubiquiti Unifi controller, all six PoE TOUGH Switches, ZoneMinder Services, and FreeNAS. Some devices are simply monitored by pinging the device by it's IP directly, in order to determine if the device is online. Other devices are monitored directly by it's service, according to it's PID number.

Monit is mainly intended to maintain the proper running order of ZoneMinder, however there are other dependencies which must be running before ZoneMinder can function properly. The Camera System requires that all Ubiquiti TOUGH Switches to be functioning properly, along with the FreeNAS system, and other basic hardware. Monit is setup to ping, ensure that all network switches are online, and FreeNAS is properly providing it's virtual drive to the Camera Server. Monit will not restart ZoneMinder unless all of the dependencies have come back online.

Accessing Monit

There is a simple web interface in order to operate Monit after it has been setup. Currently Monit can be accessed from <http://zoneminder.home/> then click on “Monit.” If the DNS is down, Monit can still be accessed through <http://192.168.100.57:2812> .

Further Reading

Installation and setup:

<https://www.digitalocean.com/community/tutorials/how-to-install-and-configure-moni>t