Change IP Details Permanent

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Introduction

To permanently change the IP details you must first be able to connect to the VSPP (see Change IP Address CMD Line). Once connected we need to edit the VSPP Configuration.

The VSPP is configured using a powerful tool called SYSU. SYSU created a file called system.ini that contains all of our configuration parameters.

Using SYSU

To change the VSPP configuration run the following:

```
sysu edit
```

This will load the system.ini into Vi.

```
##### system Topology ####
## all parameters marked with green should be changed with relevant site configuration ##
##### Region and Rack properties #####
[aio-region]
type = region
inherit = MANAGER:REGION
pods = aio-pod
[aio-pod]
type = pod
inherit = MANAGER:POD
raid.mode = 0
segment.size = 1
geo.ids = 1
subnets = 0.0.0.0/0
# Do not change volume.line.size
volume.line.size = 96
[pod-group-aio]
type = pod_group
inherit = MANAGER:POD_GROUP
pods = aio-pod
[AIO]
type = stateful
default_gateway = MNG
os = CENTOS6.6.P30.3-X86_64
machine = SERVER
site = FX-SITE
node.aio1 = aio103, MNG-20, VIDEO-20.1
repos = file:///var/sysu/repos/centos6.6, file:///var/sysu/repos/fabrix_sw
apps = syspu, dns, manager, postgres, gui, storage, streamer, graphite, riemann, mon_agent
nic = MNG|ETH2, VIDEO|ETH3
pod = aio-pod
[FX-SITE]
type = site
syspu = syspu
ntp.servers = 192.168.100.150
domains = system.fx
timezone = Europe/London
# Fabrix brand and version
Type  :quit<Enter>  to exit Vim
# Fabrix brand and version
```

```
brand = fabrix
version = 3.8
[syspu]
type = application
inherit = SYSPU:APP
# Changing HTTPD port that is used by Syspu (the default is port 80)
# port = 82
[mon_agent]
type = application
inherit = MON_AGENT:APP
# push.manager is relevant for Manager >= 3.5
push.manager = manager
push.riemann = riemann
# A graphite prefix that will be use by mon_agent
parser.ini.mon_agent.ini.107 = general@prefix_name = Ericsson.VSPP
[graphite]
type = application
inherit = GRAPHITE:APP
[riemann]
type = application
inherit = RIEMANN:APP
[dns]
type = application
inherit = DNS:APP
domains = system.fx
# DNS additional nameservers (optional)
nameservers = 192.168.100.150
[manager]
type = application
inherit = MANAGER:APP
# Cluster: list of define application sections, these applications will be cluster under this manager.
cluster = storage, streamer
# Gui application section
gui.section = gui
# PostgresDB application section
db.section = postgres
fxdb.domains = manager.system.fx
fxdb.domains = manager.system.fx
enable.api = True
regions = aio-region
# Manager application configuration
parser.ini.manager.ini.100 = general@DISABLE_SSL = 1
parser.ini.manager.ini.101 = general@SRM_SERVER_ADDR =
parser.ini.manager.ini.102 = general@PUBLIC_LISTENING_ADDR=9090
parser.ini.manager.ini.103 = general@USE_SYSLOG = 0
parser.ini.manager.ini.104= general@USE_STREAMER_REPORT_FOR_LINK_STATUS = false
[postgres]
type = application
inherit = POSTGRES9:APP
# Solid DB core limitation (for more details see Appendix E):
# RSDVR private copy - Managers should use all cores in the machine (remove this configuration
parameter)
# All other production systems - Manager Solid should be limited to four cores: 0-3
# Lab systems - Manager Solid should be limited to one core: 0
# database.cores = 0
# Network layout
# db network defines the interface for client connection (all client will be configure according)
db.network = management
# Solid application parameters
# Solid dedicated disk for transaction logs (Uncomment in case you set up a dedicated disk)
# parser.ini.solid.ini.100 = Logging@LogDir = /data/solid_logs
[gui]
type = application
inherit = GUI:APP
db.section = postgres
# Enabling GUI dashboard by referencing to graphite section:
graphite.section = graphite
parser.property.configuration.properties.100 = show.all = true
[storage]
type = application
```

```
inherit = STORAGE_SERVICE_LEDS_SUPPORT:APP
# Network layout
# Cluster is the application interconnect (disks) communication network
cluster.network = management
# storage application configuration
parser.ini.storage-server.ini.100 = general@USE_SYSLOG = 0
parser.ini.storage-server.ini.101 = general@WORKING_PATH = /opt/Fabrix.TV/vs-storage/Disk
parser.ini.storage-server.ini.102 = general@LOG_FILENAME = /opt/Fabrix.TV/logs/storage.log
parser.ini.storage-server.ini.103 = general@DISABLE_SSL = 1
# These parameters are controlling the application memory allocation, for small server (VM) use "50"
# SERVER_DATA_CACHE_SIZE is memory per disk in MB
parser.ini.storage-server.ini.104 = general@SERVER_DATA_CACHE_SIZE = 50
parser.ini.storage-server.ini.105 = general@CLIENT_DATA_CACHE_SIZE = 50
# Disable LED features (Normally in VM environment)
parser.ini.storage-server.ini.106 = general@USING_VIRTUAL_BLOCK_DEVICE = false
parser.ini.storage-server.ini.107 = general@IGNORE_BLOCK_DEVICES = sda
parser.ini.storage-server.ini.108 = general@DEVICE_FILE_NAME_PREFIX = sd
parser.ini.storage-server.ini.109 = USING_PHYSICAL_DISK = true
parser.ini.storage-server.ini.110 = LED_ENABLED = false
[streamer]
type = application
inherit = STREAMER:APP
# BW Properties
max.cdn = 1G
max.streaming = 1G
max.ingest = 1G
max.total = 1G
abr_streaming = true
# Network layout
# External is for "video stream" (playout) network
external.network = management
# Ingest is the "video ingest" network
ingest.network = video
# Cluster is the application interconnect (disks) communication network
cluster.network = management
# Uncomment and update Streamer virtual network
# virtual.network = management
# streamer INI parameters
parser.ini.streamer.ini.100 = general@STREAMER_ADDR = 2929
parser.ini.streamer.ini.101 = general@LOG_FILENAME = /opt/Fabrix.TV/logs/streamer.log
parser.ini.streamer.ini.102 = general@STRING_TABLES_FILE =
/opt/Fabrix.TV/Configuration_Files/String_Tables.xml
# These parameters are controlling the application memory allocation, for small server (VM) use "50"
parser.ini.streamer.ini.103 = general@TOTAL_STREAMING_THROUGHPUT = 450
parser.ini.streamer.ini.104 = general@CLIENT_DATA_CACHE_SIZE = 200
parser.ini.streamer.ini.105 = general@TOTAL_STREAMING_THROUGHPUT = 450
parser.ini.streamer.ini.106 = general@DISABLE_SSL = 1
parser.ini.streamer.ini.107 = general@USE_SYSLOG = 0
#### Network properties ####
[MNG]
type = network
name = management
network = 192.168.27.0
netmask = 255.255.255.0
next_hop = 192.168.27.254
[VIDEO]
type = network
name = video
network = 10.10.0.0
netmask = 255.255.0.0
next_hop = 10.10.255.254
#### Nic Properties ####
[ETH0]
type = nic
device = eth0
bootproto = static
[ETH1]
type = nic
device = eth1
bootproto = static
```

```
[ETH2]
type = nic
device = eth2
bootproto = static
[ETH3]
type = nic
device = eth3
bootproto = static
#### Machine Property ####
[SERVER]
type = machine
#
IBM-COMMON (for all IBM servers), HP-COMMON (for all HP servers) for other brands inherit SERVER-COMMON
inherit = SERVER-COMMON
# uncomment, below "kcmdline" empty attribute incase of virtual environment!
# kcmdline =
# Number of disks used by VSPP Storage:
storage.disks = 4
```

Change IP Details

There are a few sections we need to change to make IP Address changes that are permanent. The main three sections we are interested in are:

[AIO]
[MNG]
[VIDEO]

The IP Address details are split across these three sections.

[MNG Section]

First check the [MNG] section. <sxh [xml][; options for SyntaxHighlighter]> [MNG] type = network name = management network = 192.168.27.0 netmask = 255.255.255.0 next_hop = 192.168.27.254 </sxh> Here we specify the network and netmask settings. The main part here is the 'network' section:

```
  network = 192.168.27.0
```

This is saying our management address is on the 192.168.27 subnet, the .0 means we are not specifying this octet in this section.

[VIDEO Section]

Now check the [VIDEO] section. <sxh [xml][; options for SyntaxHighlighter]> [VIDEO] type = network name = video network = 10.10.0.0 netmask = 255.255.0.0 next_hop = 10.10.255.254 </sxh> Here we are specifying the VIDEO interface subnet, the main part is the network section again.

```
  network = 10.10.0.0
```

In this example the VIDEO network is 10.10, the last two octets are specified elsewhere.

[AIO Section]

Now check the [AIO] section. <sxh [xml][; options for SyntaxHighlighter]> [AIO] type = stateful default_gateway = MNG os = CENTOS6.6.P30.3-X86_64 machine = SERVER site = FX-SITE node.aio1 = aio103, MNG-20, VIDEO-20.1 repos = file:*/var/sysu/repos/centos6.6, file:*/var/sysu/repos/fabrix_sw apps = syspu, dns, manager, postgres, gui, storage, streamer, graphite, riemann, mon_agent nic = MNG|ETH2, VIDEO|ETH3 pod = aio-pod </sxh> There are a few configuration items here, but the main points are as follows:

```
node.aio1 = aio103, MNG-20, VIDEO-20.1
```

Here the first part relates the actual VSPP chassis we are on (node.aio1 = aio103) and the next two parts are the final octets of our IP Addresses for Management (MNG) and Video.

```
MNG-20, VIDEO-20.1
```

MNG-20 sets the last octet of our Management address to 20 (so 192.168.27.20)
VIDEO-20.1 sets the last two octets of our VIDEO address to 20.1 (so 10.10.20.1)

Save and Apply settings

Once you have edited (this is Vi remember) and saved the file, you will need to do the following:

Use sysu sketch to load the edited configuration.

```
sysu sketch
```

You will see a lot of text as the unit is configured, keep an eye out for any failures.

Next use sysu network.config to apply the network part of the system.ini

```
sysu network.config
```

You can see the available options for sysu by using sysu tab tab

Now use sysu apps.config to start the apps

```
sysu apps.config
```

Using Monit

Monit is like the command service in linux, it can start and stop (among other things) the VSPP processes.

To check the status of VSPP use:

```
monit summary
```

You will see an output similar to the following (the status might differ)

```
[root@aio103 ~]# monit summary
monit: Cannot translate 'aio103' to FQDN name -- Temporary failure in name resolution
The Monit daemon 5.3.2 uptime: 1h 18m

Remote Host 'java'                 Not monitored
Remote Host 'udp-tftpserver'       Not monitored
Process 'syspu-ui'                 Not monitored
Process 'go-syspu'                 Not monitored
Process 'Streamer'                 Not monitored
Process 'Storage'                  Not monitored
Process 'snmpd'                    Not monitored
Process 'service_server'           Not monitored
Process 'riemann'                  Not monitored
Process 'postgresql9'              Not monitored
Process 'ntpd'                     Not monitored
Process 'named'                    Not monitored
Process 'mon_agent'                Not monitored
Process 'Manager'                  Not monitored
Process 'httpd'                    Not monitored
```

```
Process 'memcached'             Not monitored
Process 'carbon-cache'          Not monitored
Process 'statsd'                Not monitored
System 'system_aio103'          Not monitored
```

When you see Not monitored this also means not started. To start everything use the following:

```
  monit start all
```

This will kick of all the processes, to check the process status you can again use monit summary

```
[root@aio103 ~]# monit summary
The Monit daemon 5.3.2 uptime: 1h 19m

Remote Host 'java'              Online with all services
Remote Host 'udp-tftpserver'    Online with all services
Process 'syspu-ui'             Running
Process 'go-syspu'             Running
Process 'Streamer'             Running
Process 'Storage'              Running
Process 'snmpd'                Running
Process 'service_server'       Running
Process 'riemann'              Running
Process 'postgresql9'          Running
Process 'ntpd'                 Running
Process 'named'                Running
Process 'mon_agent'            Running
Process 'Manager'              Running
Process 'httpd'                Running
Process 'memcached'            Running
Process 'carbon-cache'         Running
Process 'statsd'               Running
System 'system_aio103'         Running
[root@aio103 ~]# sysu edit
No changes were made , nothing to do
```

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