

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.

```
<sxh [xml][; options for SyntaxHighlighter]> ##### 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 # 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 </sxh>
```

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 'postgresl9'              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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