Standard Operating Procedure

*Checking Connectivity from OSE to a Backend System*

## PURPOSE

The purpose of this standard operating procedure (SOP) is to provide a detailed step-by-step procedure to check connectivity from OSE to a backend system.

## PROCEDURE

1. Log into the correct environment and confirm the source IP address and its subnets.

A subnet is logical subdivision of an IP network.

i.e. 172.23.111.62 and 10.224.222.221 are in the same subnet since they are both 10.224.222.XXX, XXX being from 0-255.

However, 10.224.220.226 and 10.224.222.55 are **not** in the same subnet as one is 10.224.220.XXX and another is 10.224.222.XXX.

If the source IP is specified, it might look something like this:

172.25.2.0/24. This means the subnet is 172.25.2.XXX, so choose an app node in this subnet.

Sometimes the source IP address is not specified; then source IP address would be one app node per subnet in the environment. Different environment has different number of subnets. i.e. CR DevTest Red has four subnets (as of February 2019).

To determine the subnet, the best is to go to “OpenShift Server Details” Confluence page:

<https://confluence.marriott.com/display/RUNTEAM/OpenShift+Server+Details>

1. To test the connectivity, log into an app node and use telnet:

ssh <node name>

telnet <server IP> <port>

i.e. In CR Perf Red environment, node60 is the source IP here:

[root@master01-perf2-vxbyr ~]# ssh node60-perf2-vxbyr.cloud.marriott.com

Here are example destination IPs and ports:

mcomperf1ea.marriott.com 7000

apisgwc21prf1.marriott.com 9443

tpfres5-saleschnl.marriott.com 8992

[root@node60-perf2-vxbyr ~]# telnet mcomperf1ea.marriott.com 7000

Trying 192.168.81.172...

**Connected** to mcomperf1ea.marriott.com.

Escape character is '^]'.

^C

Connection closed by foreign host.

On the excel sheet, mark that this destination host is **connected**.

[root@node60-perf2-vxbyr ~]# telnet apisgwc21prf1.marriott.com 9443

telnet: apisgwc21prf1.marriott.com: Name or service not known

apisgwc21prf1.marriott.com: **Unknown host**

On the excel sheet, mark that this destination host is **unknown host**.

[root@node60-perf2-vxbyr ~]# telnet tpfres5-saleschnl.marriott.com 8992

Trying 159.166.129.3...

^C

On the excel sheet, mark that this destination host is **not connected**.

If there are multiple ports listed, test on **all** ports.

Repeat step 2 for all source IPs, all in different subnets.

## VALIDATION

Follow the validation steps in “Procedure”.

**Document Version Control**

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