



Example of the z/OS Load Balancing Advisor: Making External IP Load Balancers Sysplex Aware

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Example configuration

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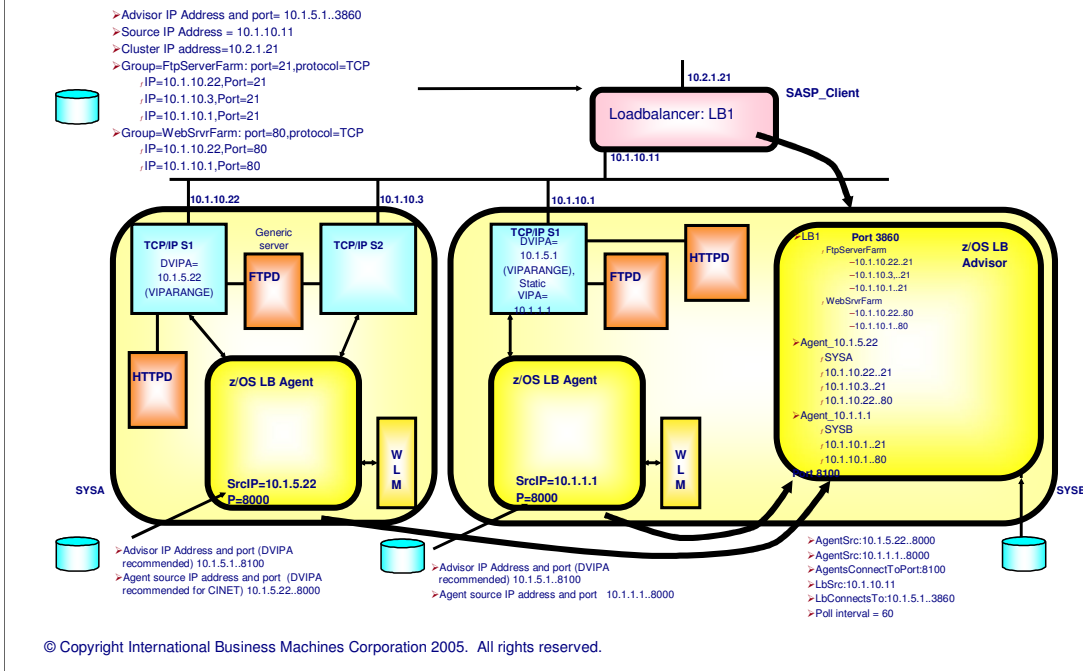
Notes - An Integrated Example

- Example configuration diagram on next page
 - ┆ One Load Balancer balancing workload for FTP and HTTP
 - FTPD is a generic server (no affinity to a given stack)
 - ┆ Two MVS systems in the sysplex
 - ┆ One system is multi-stack (CINET)

- Example includes Advisor and Agent configurations, as well as important PROFILE.TCPIP customizations for this example

- Clients connect to the cluster IP address, 10.2.1.21 for HTTP or FTP requests

Sample Configuration



Example - Advisor Config

```
default    debug_level 7                                # Error, warning, Events-- the
update_interval 60                                    # Agents update every minute-- the default
weights    wlm serverwlm                              # Request server-specific WLM
port_list  {
  21      wlm basewlm                                # Use system WLM weights for FTP
}
lb_connection_v4 10.1.5.1..3860                      # DVIPA load balancer connects to
lb_id_list  {
  10.1.10.11                                         # Load balancer's SASP client
interface
}
agent_connection_port 8100                            # Port Agents connect to
agent_id_list {
  10.1.1.1..8000                                     # This system's Agent source
  10.1.5.22..8000                                    # SYSA's Agent source
}
```

Example - Agent Config, "SYSB"

```
debug_level 7 # Error,
Warning, Events

advisor_id 10.1.5.1..8100 # DVIPA of Advisor Agent
connects to

host_connection 10.1.1.1..8000 # Source address and port this Agent
to connect to the Advisor # uses
```

Example - Agent Config, "SYSA"

```
debug_level 7 # Error, Warning,
Events
advisor_id 10.1.5.1..8100 # DVIPA of Advisor Agent
connects to
host_connection 10.1.5.22..8000 # Source DVIPA and port this Agent
uses to connect to the Advisor #
```

Example - TCP/IP Profile, Stack "S1" on "SYSB"

```
VIPADYNAMIC
;Address LB & Agents use to reach Advisor fall into this subnet
VIPARANGE DEFINE 255.255.255.0 10.1.5.0
ENDVIPADYNAMIC

DEVICE VIPA41 VIRTUAL 0           ; Static VIPA for Agent's source address
LINK LVIPA41 VIRTUAL 0 VIPA41
HOME 10.1.1.1 LVIPA41

PORT
3860 TCP LBADV                   ; SASP Workload Advisor (LB connections)
8100 TCP LBADV                   ; SASP Workload Advisor (Agent connections)
8000 TCP LBAGENT                 ; SASP Workload Agent (Advisor connection)
```


Example - TCP/IP Profile, Stack "S1" on "SYSA"

```
VIPADYNAMIC
;Address Agent uses as source will fall into this subnet
VIPARANGE DEFINE 255.255.255.0 10.1.5.0
ENDVIPADYNAMIC
```

```
PORT
3860 TCP LBADV          ; SASP Workload Advisor LB connections,
                        ; in case Advisor is moved to this stack
8100 TCP LBADV          ; SASP Workload Advisor Agent connections,
                        ; in case Advisor is moved to this stack
8000 TCP LBAGENT        ; SASP Workload Agent Advisor connection
```

Example - TCP/IP Profile, Stack "S2" on "SYSA"

```
VIPADYNAMIC
;Address Agent uses as source will fall into this subnet
VIPARANGE DEFINE 255.255.255.0 10.1.5.0
ENDVIPADYNAMIC

PORT
3860 TCP LBADV          ; SASP Workload Advisor LB connections,
                        ; in case Advisor is moved to this stack
8100 TCP LBADV          ; SASP Workload Advisor Agent connections,
                        ; in case Advisor is moved to this stack
8000 TCP LBAGENT        ; SASP Workload Agent Advisor connection
```

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