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Apache2 : Configure mod_proxy 2022/05/12

Enable [mod_proxy] module to configure reverse proxy settings.
This example is based on the environment like follows.

```
-----------+------------------------+-----------
           |                        |
           |10.0.0.31               |10.0.0.51
+----------+----------+    +---------+----------+
| [ www.srv.world ]   |    | [ node01.srv.world ] |
|    Web Server#1     |    |     Web Server#2    |
+--------------------+     +--------------------+
```

[1] Configure Apache2.

root@www:~#
vi /etc/apache2/conf-available/revers_proxy.conf
create new

```
<IfModule mod_proxy.c>
    ProxyRequests Off
    <Proxy *>
        Require all granted
    </Proxy>
    # backend server and forwarded path
    ProxyPass / http://node01.srv.world/
    ProxyPassReverse / http://node01.srv.world/
</IfModule>
```

root@www:~#
a2enconf revers_proxy

```
Enabling conf revers_proxy.
To activate the new configuration, you need to run:
  systemctl reload apache2
```

root@www:~#
a2enmod proxy proxy_http

```
Module proxy already enabled
Considering dependency proxy for proxy_http:
Module proxy already enabled
Enabling module proxy_http.
To activate the new configuration, you need to run:
  systemctl restart apache2
```

root@www:~#
systemctl restart apache2

[2] Access to frontend server to verify backend server responses like follows.
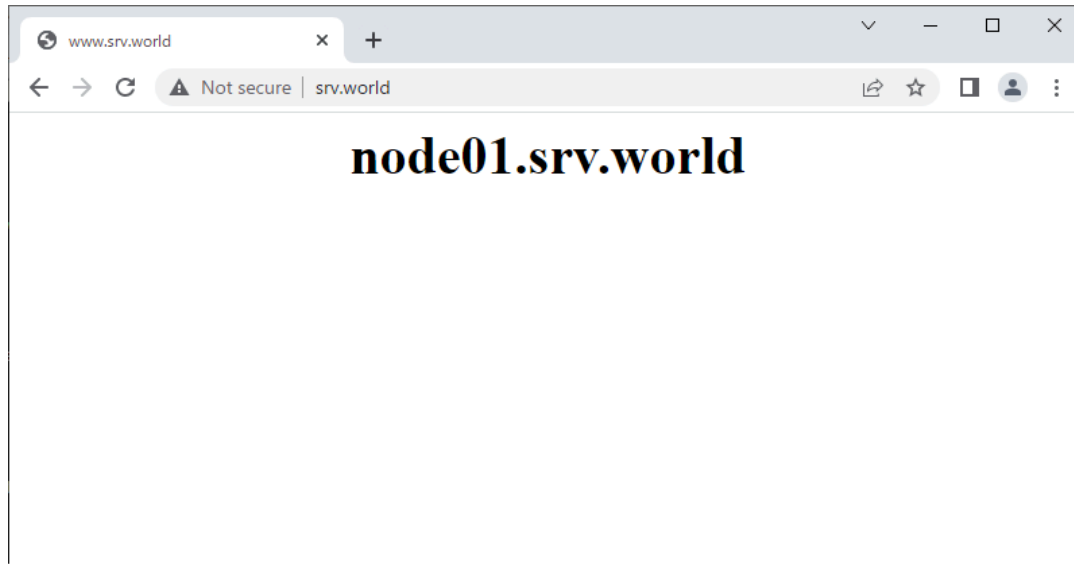
It's possible to configure load balancing settings.

```
          ----------+-------------------------+--------------------------+-----------
                    |                         |                          |
                    |10.0.0.31                |10.0.0.51                 |10.0.0.52
[3] +---------+----------+   +----------+----------+   +-----------+----------+
    |   [ www.srv.world ]  |   |  [ node01.srv.world ] |   |  [ node02.srv.world ] |
    |      Web Server#1    |   |      Web Server#2     |   |      Web Server#3     |
    +----------------------+   +----------------------+   +----------------------+
```

root@www:~#
vi /etc/apache2/conf-available/revers_proxy.conf
create new

```
<IfModule mod_proxy.c>
    ProxyRequests Off
    <Proxy *>
        Require all granted
    </Proxy>
    # specify the way of load balancing with [lbmethod]
    # also possible to set [bytraffic] which means httpd balances requests by traffic
    ProxyPass / balancer://cluster lbmethod=byrequests
    <proxy balancer://cluster>
        BalancerMember http://node01.srv.world/ loadfactor=1
        BalancerMember http://node02.srv.world/ loadfactor=1
    </proxy>
</IfModule>
```

root@www:~#
a2enconf revers_proxy

```
Enabling conf revers_proxy.
To activate the new configuration, you need to run:
  systemctl reload apache2
```

root@www:~#
a2enmod proxy proxy_http proxy_balancer lbmethod_byrequests

```
Module proxy already enabled
Considering dependency proxy for proxy_http:
Module proxy already enabled
Enabling module proxy_http.
Considering dependency proxy for proxy_balancer:
Module proxy already enabled
```

```
Considering dependency alias for proxy_balancer:
Module alias already enabled
Considering dependency slotmem_shm for proxy_balancer:
Module slotmem_shm already enabled
Module proxy_balancer already enabled
Considering dependency proxy_balancer for lbmethod_byrequests:
Considering dependency proxy for proxy_balancer:
Module proxy already enabled
Considering dependency alias for proxy_balancer:
Module alias already enabled
Considering dependency slotmem_shm for proxy_balancer:
Module slotmem_shm already enabled
Module proxy_balancer already enabled
Enabling module lbmethod_byrequests.
To activate the new configuration, you need to run:
  systemctl restart apache2
```

root@www:~#
systemctl restart apache2

[4] Access to frontend server to verify backend servers response like follows.
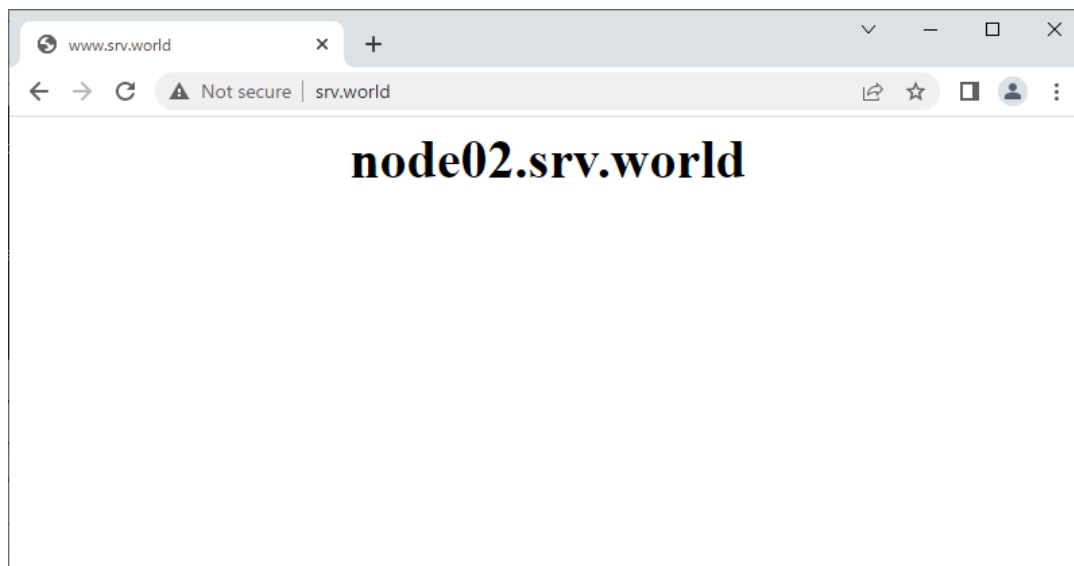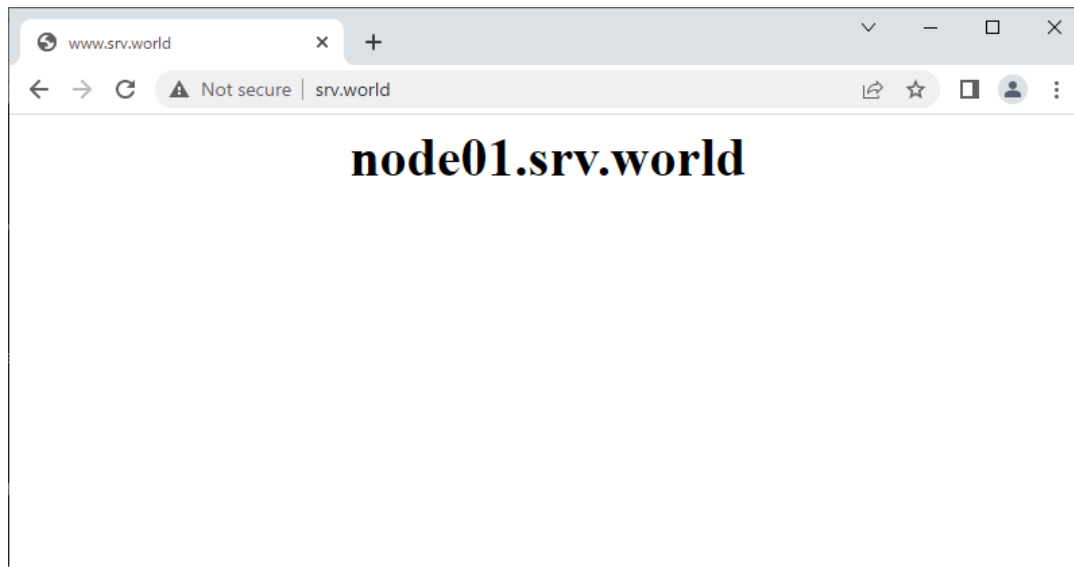
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