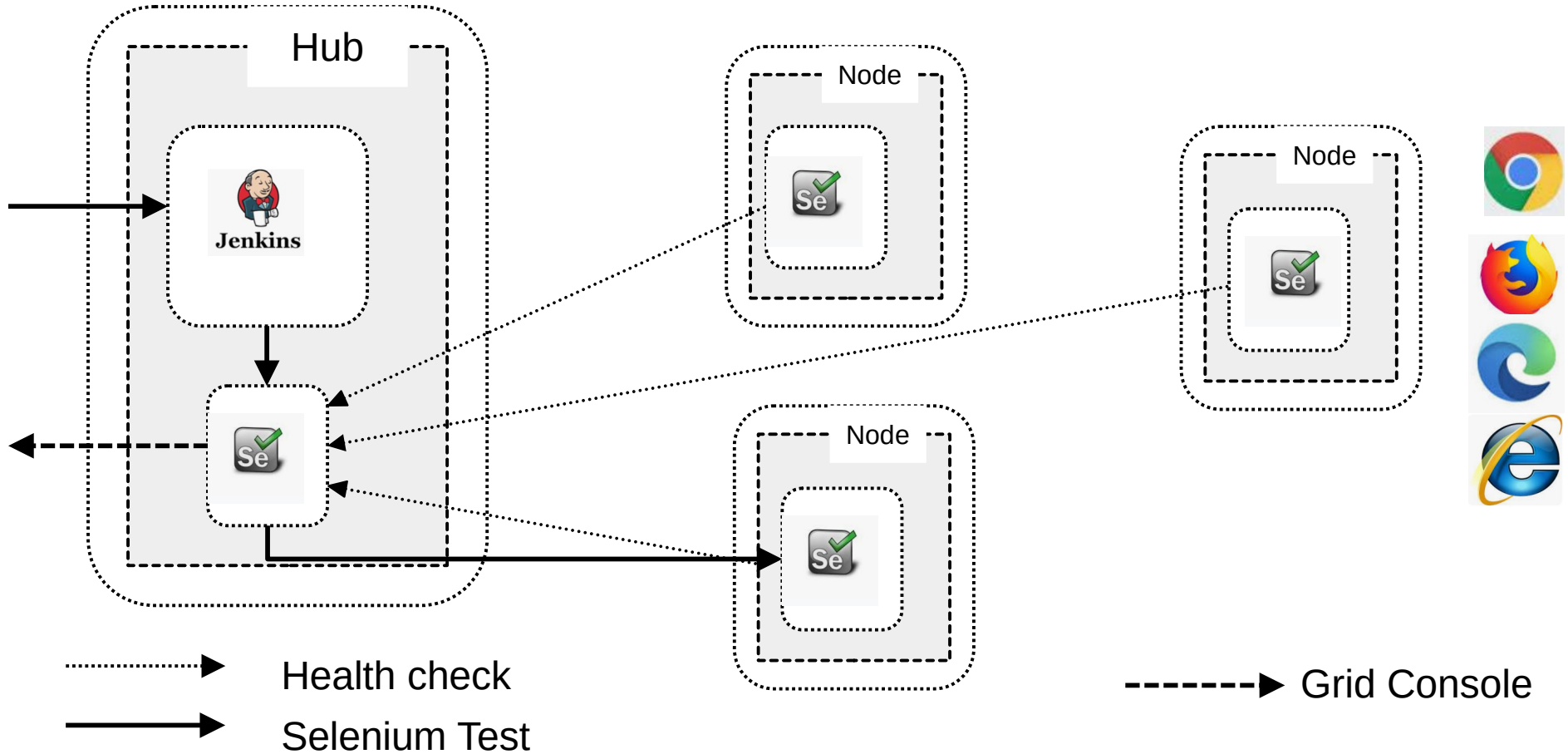
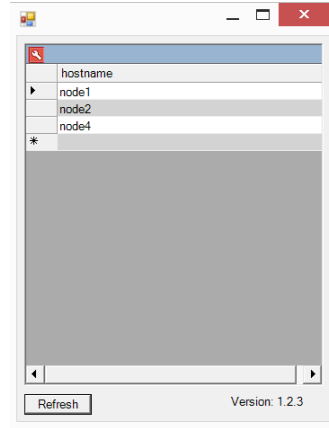
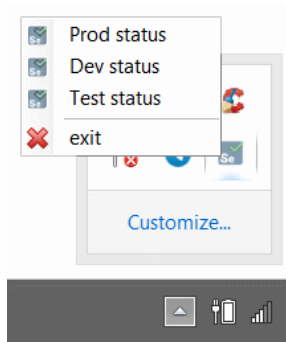


# Selenium Grid



# Grid Health Check

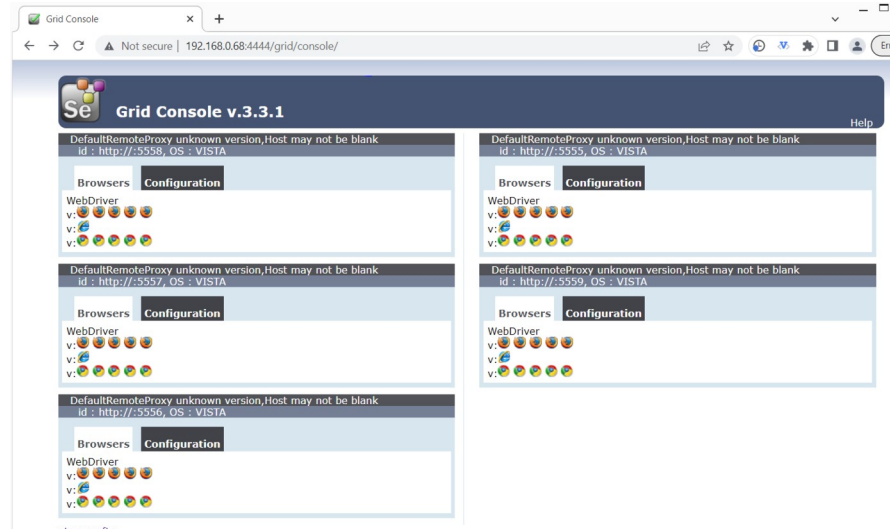


```
config.ini - Notepad
File Edit Format View Help
[[Environments]
values=Prod,Dev,Test

[Prod]
hub=127.0.0.1
nodes=host1,host2,host3,host4,host-1-23
name=host1

[Dev]
hub=127.0.0.1
nodes=SERGUEIK53
name=host2

[Test]
# Selenium 4
# hub=192.168.0.125
# Selenium 3
hub=192.168.0.68
```

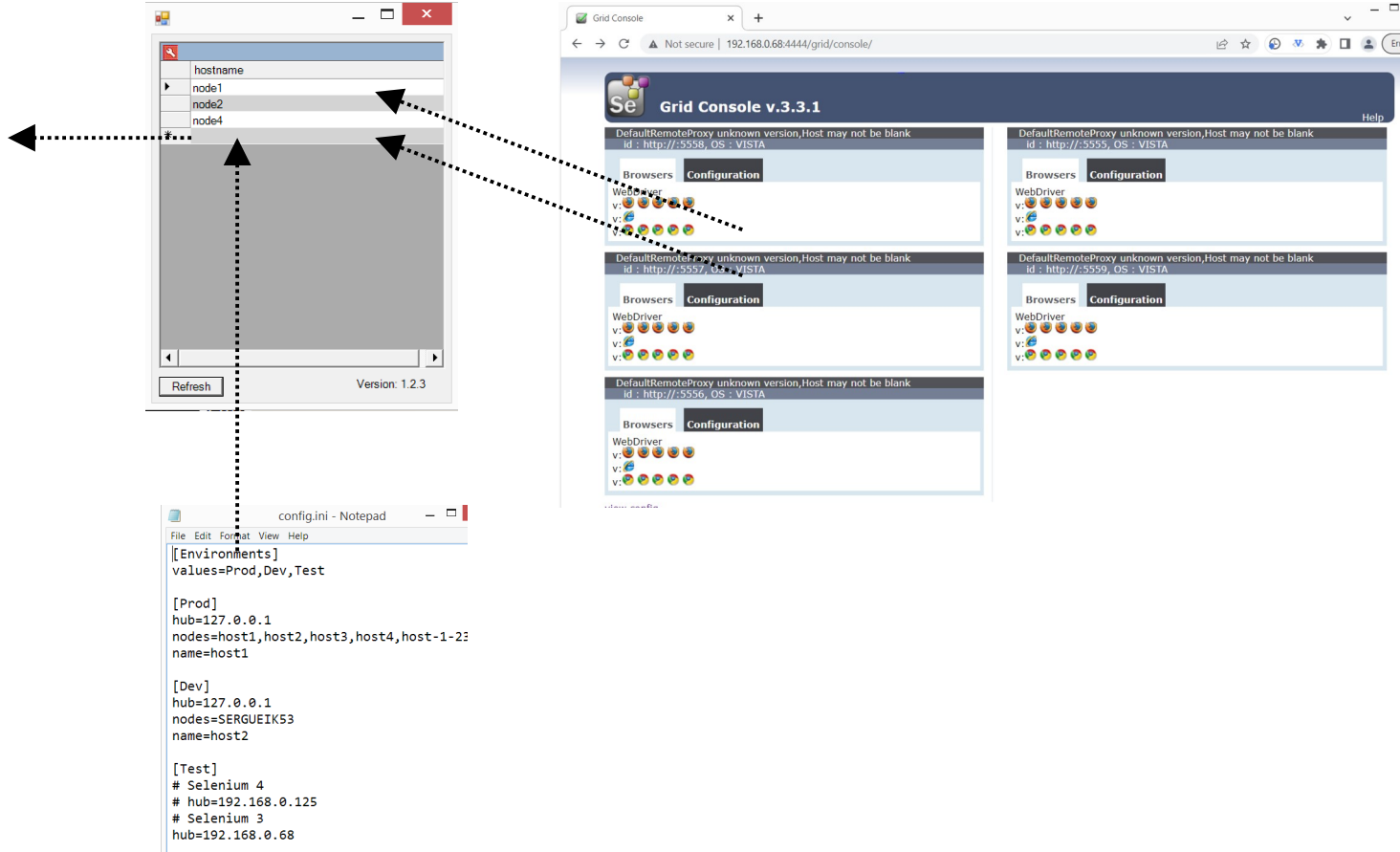


HTML Page scraped through  
**System.Windows.Forms.WebBrowser.WebBrowser**

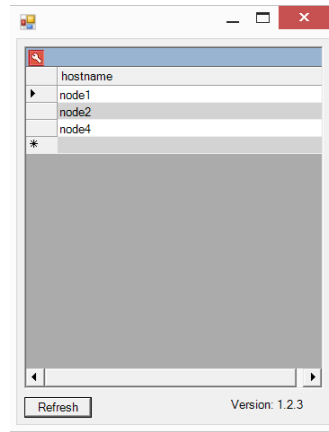
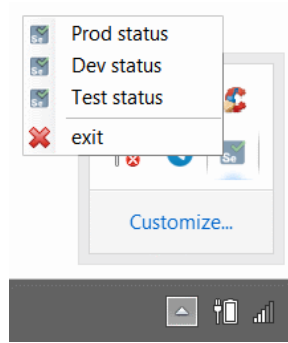
# Alternatives

browser option	advantage	disadvantage
Windows interactive user desktop	easy to troubleshoot and setup	requires interactive logon through credential provider
Windows headless	can run w/o logon e.g. through Task Scheduler	complex tool chain to troubleshoot often code added to report failures somewhat less reliable
Windows service desktop	can be run w/o logon	screen dimensions tweaks required discouraged with windows 10 onward
Unix on virtual desktop	run as shell script by cron can run on generic machine	complex setup: must include X Windows server (VNC or XVFB)
Unix headless	needs no X windows	same as Windows headless
Docker	same as Unix	Same as Unix

# Grid Health Check



# Grid Health Check for Selenium 4

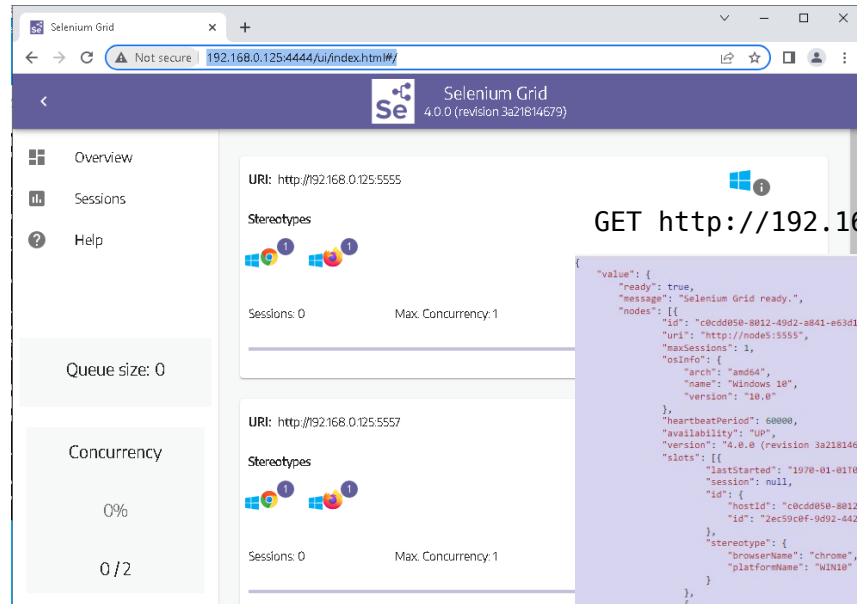


```
config.ini - Notepad
File Edit Format View Help
[Environments]
values=Prod,Dev,Test

[Prod]
hub=127.0.0.1
nodes=host1,host2,host3,host4,host-1-23
name=host1

[Dev]
hub=127.0.0.1
nodes=SERGUEIK53
name=host2

[Test]
# Selenium 4
# hub=192.168.0.125
# Selenium 3
hub=192.168.0.68
```



GET <http://192.168.0.68:4444/status>

```
{
  "value": {
    "ready": true,
    "message": "Selenium Grid ready.",
    "nodes": [
      {
        "id": "c6cdd050-8012-49d2-a841-e63d188c4b61",
        "uri": "http://192.168.0.125:5555",
        "maxSessions": 1,
        "osInfo": {
          "arch": "amd64",
          "name": "Windows 10",
          "version": "10.0"
        },
        "heartbeatPeriod": 60000,
        "availability": "UP",
        "version": "4.0.0 (revision 3a21814679)",
        "slots": [
          {
            "lastStarted": "1978-01-01T00:00:00Z",
            "session": null,
            "id": {
              "hostId": "c6cdd050-8012-49d2-a841-e63d188c4b61",
              "id": "2ec59c9f-9092-4426-8a4f-2c2edce4b16d"
            },
            "stereotype": {
              "browserName": "chrome",
              "platformName": "WIN10"
            }
          }
        ],
        "lastStarted": "1978-01-01T00:00:00Z",
        "message": "Selenium Grid ready."
      }
    ]
  }
}
```

**System.Windows.Forms.WebBrowser.WebBrowser** lacks JQuery support  
REST calls done through **System.Net.HttpWebRequest**  
JSON serialization through  
**System.Web.Script.Serialization.JavaScriptSerializer.JavaScriptSerializer**