Server Monitor WebApp:

Location: C:\inetpub\wwwroot\buganim on Jenkins (192.168.20.39)

Login from any computer on local network with “Jenkins:8000”

Username: buganim

Password: C5vP9e77

Overview :

The server is installed as an IIS service, changes to this service can be made through the Server Manager dashboard --> IIS.

The server contains a service named SMDATA which is responsible for contacting all of its agents listed in a json under server\_list dir, this service updates the database found in backend/Data (database is 3 files, data.bak, data.dat, data.dir). this database can be deleted any time if there is an issue it will be re-created by the service. SMDATA also creates the log files under P:\RND\IT\monitor\_logs, logs older then 7 days are automatically deleted by this service.

This service is responsible for all the data for the GUI, it is created the same way an agent service is created only the file used to create the service is backend/data/data.exe compiled from data.py script.

GUI is handled by Django framework, views are handled under server\_monitor/views.py and html files are under templates

Services:

TCPSERVER – service for each agent which sends the data to main server

SMDATA – service on Jenkins server responsible for extracting data from all agents and writing to server monitor DB as well as system logs on P

Add an agent:

Windows -

1. Go into dir /AgentPack and copy “ServerMonitor” dir
2. Paste it on agent computer in C:\
3. Double click installer.bat
4. Under Application, Path choose “C:\ServerMonitor\tcpServerSide.exe
5. Open task manager and under services look for “TCPSERVER”
6. Make sure service is running in task manager

Note that default service runs on port “1111”, for a different port go to backend and copy the exe for the port you need.

Linux –

1. Log on to server as root
2. Log on simultaneously with WinSCP in order to transfer files
3. From AgentPack/Linux copy tcpserver.service to /etc/systemd/system
4. Copy tcpServerSideLinux.py to ~/ServerMonitor
5. Download python3 with “sudo apt-get install python3”
6. Download pip with “sudo apt-get python3-pip”
7. Run command “pip3 install psutil”
8. Make service and py file executable with “chmod 777”
9. Run command “systemctl daemon-reload” to reload services
10. Run command “systemctl start tcpserver.service” to start your agent service
11. Check if service is running with “systemctl status tcpserver.service”

Default port for linux servers is 5005, default IP in py script is set to “”, might not work, if needed edit script to contain the local IP hardcoded. (TCP\_IP = “xxx.xxx.xxx.xxx”)

After service is installed on agent, add the agent in the server json file in the following format:

“AGENT\_NAME”: [“IP AS XXX.XXX.XXX.XXX”, PORT]

The agent is now added to the monitor and will automatically be updated in the GUI as well as logs created.