

Software

Script mengecek spesifikasi server Linux based

```
#!/bin/bash
```

```
# Output file
```

```
SERVER_IP=$(hostname -I | awk '{print $1}')
```

```
SERVER_IP_CLEAN=$(echo "$SERVER_IP" | sed 's/\./_/g')
```

```
# Set the output file name based on the server's IP address
```

```
OUTPUT_FILE="system_check_$SERVER_IP_CLEAN.txt"
```

```
# Collect system information
```

```
echo "System Check Information" > $OUTPUT_FILE
```

```
echo "-----" >> $OUTPUT_FILE
```

```
echo "" >> $OUTPUT_FILE
```

```
# 1. Check CPU / Memory / Disk usage
```

```
echo "1. CPU / Memory / Disk Usage:" >> $OUTPUT_FILE
```

```
echo "-----" >> $OUTPUT_FILE
```

```
echo "" >> $OUTPUT_FILE
```

```
# CPU Usage
```

```
echo "CPU Usage:" >> $OUTPUT_FILE
```

```
top -bn1 | grep "Cpu(s)" >> $OUTPUT_FILE
```

```
echo "" >> $OUTPUT_FILE
```

```
# CPU
```

```
echo "CPU:" >> $OUTPUT_FILE
```

```
lscpu >> $OUTPUT_FILE
```

```
echo "" >> $OUTPUT_FILE
```

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Memory Usage

```
echo "Memory Usage:" >> $OUTPUT_FILE
```

```
free -h >> $OUTPUT_FILE
```

```
echo "" >> $OUTPUT_FILE
```

Disk Usage

```
echo "Disk Usage:" >> $OUTPUT_FILE
```

```
df -h >> $OUTPUT_FILE
```

```
echo "" >> $OUTPUT_FILE
```

2. Check OS Version

```
echo "2. Operating System Version:" >> $OUTPUT_FILE
```

```
echo "-----" >> $OUTPUT_FILE
```

```
echo "" >> $OUTPUT_FILE
```

```
echo "OS Version: $(uname -o)" >> $OUTPUT_FILE
```

```
echo "Kernel Version: $(uname -r)" >> $OUTPUT_FILE
```

```
echo "OS Distribution Info: $(cat /etc/centos-release)" >> $OUTPUT_FILE
```

```
echo "OS Distribution Info: $(cat /etc/os-release)" >> $OUTPUT_FILE
```

```
echo "" >> $OUTPUT_FILE
```

3. Check Installed Software & Versions

```
echo "3. Installed Software & Versions:" >> $OUTPUT_FILE
```

```
echo "-----" >> $OUTPUT_FILE
```

```
echo "" >> $OUTPUT_FILE
```

List installed packages and versions using rpm

```
echo "Installed Software:" >> $OUTPUT_FILE
```

```
# rpm -qa >> $OUTPUT_FILE
```

```
if command -v dpkg &> /dev/null; then
```

```
echo "using dpkg: " >> $OUTPUT_FILE
```

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```
apt-mark showmanual >> $OUTPUT_FILE
```

```
elif command -v dnf && /dev/null; then
```

```
echo "using dnf: " >> $OUTPUT_FILE
```

```
dnf history userinstalled >> $OUTPUT_FILE
```

```
else
```

```
echo "using rpm: " >> $OUTPUT_FILE
```

```
rpm -qa >> $OUTPUT_FILE
```

```
fi
```

```
echo "" >> $OUTPUT_FILE
```

```
# 4. Check Inbound Connections (Listening Ports)
```

```
echo "4. Inbound Connections (Listening Ports):" >> $OUTPUT_FILE
```

```
echo "-----" >> $OUTPUT_FILE
```

```
echo "" >> $OUTPUT_FILE
```

```
# ss -tuln >> $OUTPUT_FILE
```

```
sudo netstat -tuln | grep LISTEN >> $OUTPUT_FILE
```

```
echo "" >> $OUTPUT_FILE
```

```
# 5. Check Outbound Connections
```

```
echo "5. Outbound Connections:" >> $OUTPUT_FILE
```

```
echo "-----" >> $OUTPUT_FILE
```

```
echo "" >> $OUTPUT_FILE
```

```
# ss -tnp | grep ESTAB >> $OUTPUT_FILE
```

```
sudo netstat -tupn | grep ESTABLISHED >> $OUTPUT_FILE
```

```
echo "" >> $OUTPUT_FILE
```

```
# 6. Check IP Tables
```

```
echo "6. Check IP Tables:" >> $OUTPUT_FILE
```

```
echo "IP Tables:" >> $OUTPUT_FILE
```

```
echo "-----" >> $OUTPUT_FILE
```

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```
iptables -t nat -L -n -v >> $OUTPUT_FILE
```

```
echo "" >> $OUTPUT_FILE
```

7. MOUNT INFO

```
echo "7. MountPoint Info:" >> $OUTPUT_FILE
```

```
echo "-----" >> $OUTPUT_FILE
```

```
mount | column -t >> $OUTPUT_FILE
```

```
echo "" >> $OUTPUT_FILE
```

8. HOST FILE

```
echo "8. Host File:" >> $OUTPUT_FILE
```

```
echo "-----" >> $OUTPUT_FILE
```

```
cat /etc/hosts >> $OUTPUT_FILE
```

```
echo "" >> $OUTPUT_FILE
```

9. User and group information

```
echo "9. User and group information:" >> $OUTPUT_FILE
```

```
echo "-----" >> $OUTPUT_FILE
```

```
echo "ALL Users:" >> $OUTPUT_FILE
```

```
cut -d: -f1 /etc/passwd >> $OUTPUT_FILE
```

```
#cat /etc/passwd
```

```
echo "" >> $OUTPUT_FILE
```

```
echo "Groups:" >> $OUTPUT_FILE
```

```
cut -d: -f1 /etc/group >> $OUTPUT_FILE
```

```
echo "" >> $OUTPUT_FILE
```

10. Ulimit configuration

```
echo "10. Ulimit configuration:" >> $OUTPUT_FILE
```

```
echo "-----" >> $OUTPUT_FILE
```

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```
ulimit -a >> $OUTPUT_FILE
```

```
echo "" >> $OUTPUT_FILE
```

```
# Final message
```

```
echo "System check information has been saved to $OUTPUT_FILE"
```

Unique solution ID: #1025

Author: n/a

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