



Service Sentinel

Yeni Nesil Linux Servis Yönetim Paneli

Hazırlayan: Senior Developer

Mevcut Sorun: Görünmezlik

Geleneksel sunucu yönetiminde, sistem yöneticileri genellikle "kör uçuş" yaparlar.

- ✓ Servislerin durumunu görmek için sürekli komut yazmak gerekir (systemctl status...).
- ✓ Siyah ekranlar ve karmaşık log dosyaları hataları bulmayı zorlaştırır.
- ✓ Hangi servisin ne kadar RAM veya CPU tükettiğini anlık izlemek zordur.
- ✓ Hata durumunda anlık bildirim mekanizmaları eksiktir.

MANDS

```
ls -l listing
ls -la listing with hidden files
cd dir - change directory to dir
pwd - print current directory
mkdir - create directory
rm - remove file
rmdir - remove directory
cp - copy file
mv - move file
ln - create symbolic link
cat - concatenate and display file
head - output first 10 lines of file
tail - output last 10 lines of file
cat - output contents of file as it grows
```

```
- connect to host as user
ser@host - connect using port p
ser@host - connect and use bind port
```

ION

```
ping - test connectivity to host
dig - get DNS records for domain
nslookup - query DNS for domain
curl - download file
wget - continue stopped download
rsync - recursively download files from url
```

INFO

```
date - current date/time
cal - month's calendar
uptime - show system uptime
who - show who is logged in
w - show who is logged in and what they are doing
dmesg - show kernel boot messages
cat /etc/passwd - show system user information
man - show manual for command
df - show disk usage
du - show directory space usage
free - show memory and swap usage
locate - show possible locations of app
crontab - show which app will be run by default
```

```
grep - search for pattern in files
grep -r - search recursively for pattern in dir
grep -n - search for pattern in the output of command
grep -o - find all instances of file
```

PROCESS MANAGEMENT

```
ps - display currently active processes
ps aux - ps with a lot of detail
kill pid - kill process with pid
killall proc - kill all processes named proc
bg - lists stopped/background jobs, resume stopped job in the background
fg - bring most recent job to foreground
fg n - brings job n to foreground
```

FILE PERMISSIONS

```
chmod octal file - change permission of file
ls -l - show permissions
4 - read (r)
2 - write (w)
1 - execute (x)
eg:
chmod 777 - rwx for everyone
chmod 755 - rx for owner, rx for group/world
```

COMPRESSION

```
tar cf file.tar files - tar files into file.tar
tar xf file.tar - untar into current directory
tar tf file.tar - show contents of archive
```

TAR FLAGS:

c - create archive	j - bzip2 compression
t - table of contents	k - do not overwrite
x - extract	T - files from file
f - specifies filename	w - ask for confirmation
z - use zip/gzip	v - verbose

```
gzip file - compress file and rename to file.gz
gunzip -d file.gz - decompress file.gz
```

SHORTCUTS

```
ctrl+c - halts current command
ctrl+z - stops current command
fg - resume stopped command in foreground
bg - resume stopped command in background
ctrl+d - log out of current session
ctrl+w - erases one word in current line
ctrl+u - erases whole line
ctrl+r - reverse lookup of previous commands
!! - repeat last command
exit - log out of current session
```

VIM

```
quitting
:q - exit, saving changes
:wq - exit, saving changes
:q! - exit, if no changes
:q! - exit, ignore changes
inserting text
i - insert before cursor
I - insert before line
a - append after cursor
A - append after line
o - open new line after cur line
O - open new line before cur line
r - replace one character
R - replace many characters
```

VIM

```
motion
h - move left
j - move down
k - move up
l - move right
w - move to next word
W - move to next blank delimited word
b - move to beginning of the word
B - move to beginning of blank delimited word
e - move to end of word
E - move to end of blank delimited word
( - move a sentence back
) - move a sentence forward
{ - move paragraph back
} - move paragraph forward
0 - move to beginning of line
$ - move to end of line
nG - move to nth line of file
:n - move to nth line of file
G - move to last line of file
fc - move forward to 'c'
Fc - move backward to 'c'
H - move to top of screen
M - move to middle of screen
L - move to bottom of screen
% - move to associated (),[],{}
deleting text
x - delete character to the right
X - delete character to the left
D - delete to the end of line
dd - delete current line
:d - delete current line
searching
/string - search forward for string
?string - search back for string
n - search for next instance of string
N - search for previous instance of string
replace
:s/pattern/string/flags - replace pattern with string, according to flags
g - flag, replace all occurrences
c - flag, confirm replaces
& - repeat last :s command
files
:w file - write to file
:r file - read file in after line
:n - go to next file
:p - go to previous file
:e file - edit file
!cmd - replace line with output of cmd
other
u - undo last change
U - undo all changes to line
```


Çözüm: Görsel Kontrol

Service Sentinel, karmaşık terminal komutlarını modern, web tabanlı bir arayüze dönüştürür.

Artık servisleri yönetmek için SSH bağlantısına gerek yok. Tek bir panelle tüm sistemin sağlığını izleyin ve yönetin.



Temel Yetenekler



Aktif İzleme

CPU, RAM kullanımı ve servislerin (Running/Failed) durumunu anlık olarak dashboard üzerinden takip edin.



Tam Kontrol

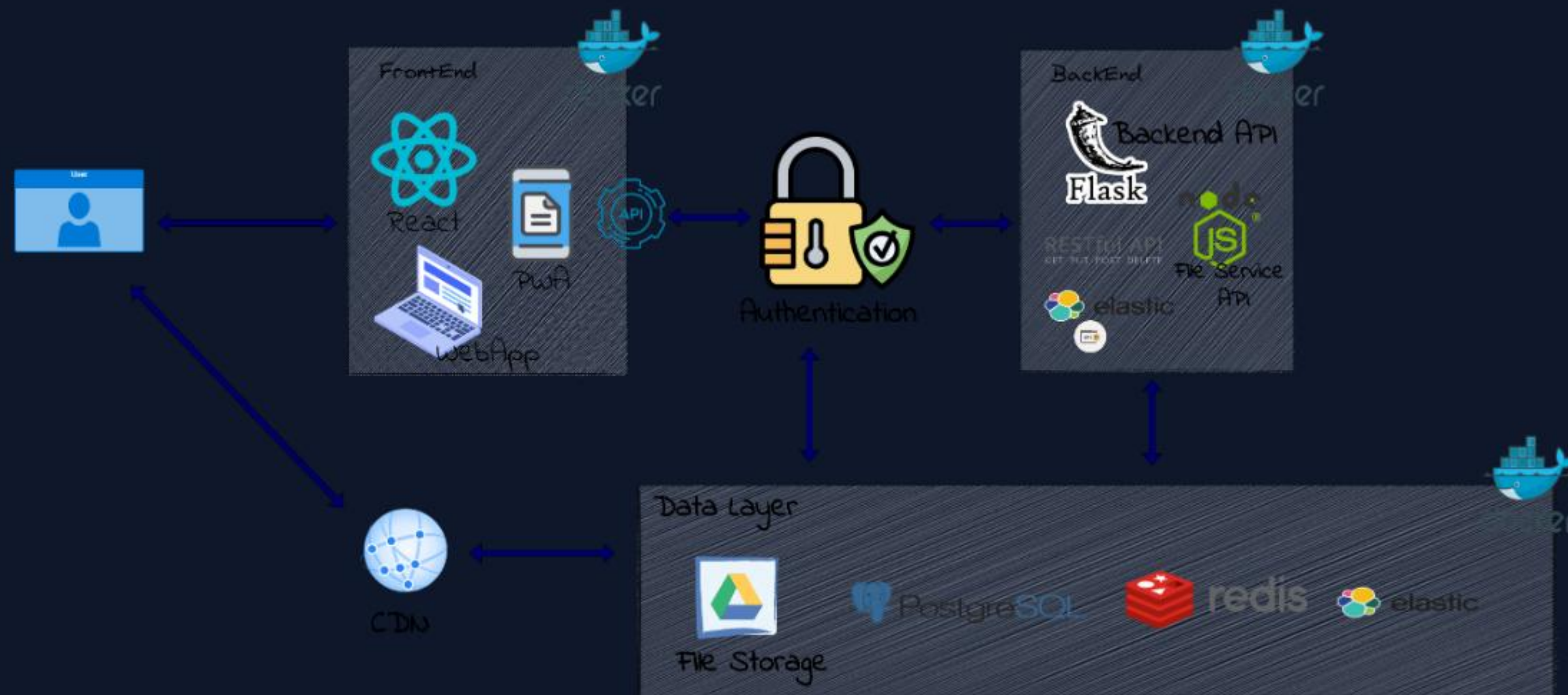
Servisleri tek tıkla Başlatın (Start), Durdurun (Stop) veya Yeniden Başlatın (Restart). Sudo komutlarına son.



Canlı Loglar

Bir servis hata verdiğinde, terminale girmeden son 50 satırlık log kayıtlarını modal pencerede anında inceleyin.

Teknik Mimari



Proje, kararlılık ve performans için modern teknolojiler üzerine inşa edilmiştir.

Backend	<div></div>	Python Flask & Systemd
Frontend	<div></div>	Bootstrap 5 & JS
Security	<div></div>	Sudo Privileges

Operasyonel Verimlilik

%80

Daha Hızlı Müdahale

7/24

Kesintisiz İzleme

0

Komut Satırı İhtiyacı

Service Sentinel, özellikle acil durumlarda (servis çökmesi vb.) müdahale süresini saniyeler seviyesine indirir.

Yol Haritası (Roadmap)

- ✓ **Kullanıcı Yetkilendirme:** Farklı kullanıcılar için Admin/Viewer rolleri.
- ✓ **Email/Slack Bildirimleri:** Servis çöktüğünde otomatik uyarı gönderme.
- ✓ **Geçmiş Veri Analizi:** CPU/RAM kullanımının grafiksel geçmişi.
- ✓ **Docker Entegrasyonu:** Konteynerlerin aynı panelden yönetimi.

Teşekkürler

Sorularınız?



admin@servicesentinel.com



github.com/servicesentinel

Image Sources



<https://external-preview.redd.it/KmG5KwhdQN9aNZQxb2cHdwtdKjRkOqlepsgOxK4C0Xk.png?auto=webp&s=7a604d5061c6e67blace70c2a1f8018252ca039f>

Source: www.reddit.com



<https://next.jqueryscript.net/wp-content/uploads/2025/12/glassmorphism-style-dashboard-template.webp>

Source: next.jqueryscript.net



<https://amlanscloud.com/static/e45b55503ff9b29df9c41ebb7cf301b4/lca7d/appcomponents.png>

Source: amlanscloud.com