



**open source**

**Arthur - Transfer the funds from the corporate account tonight**

**Linux sigurnost**

## Mrežna zaštita (3)

Linux moramo osigurati i od napada preko mreže. Nakon što pronađemo i uklonimo sve programe koji bi mogli biti zloupotrijebljeni za napade, gotovo smo dostigli ideal sigurnog računala

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Dosad smo uspjeli naučili kako štititi Linux računalno od problema koji bi se mogli pojaviti kad ono nije umreženo. Jasno je da je takvo računalno samo iluzija, pa ima li većeg izazova od 24-satnog priključka na Internet putem javno dostupne adrese? Upravo zato moramo biti posebno pripremljeni kad se jednom odlučimo priključiti taj kabel i kad paketi počnu teći, jer u tom trenutku sva paranoja postaje potpuno opravdana. Upravo tad počinje stalno nadmudrivanje s udaljenim hackerima i ništa se ne smije prepustiti slučaju. Neposredno prije priključivanja treba napraviti backup i snapshot sustava (da, ponavljamo se) nekim od prije spomenutih alata i početi pozorno pratiti neku sigurnosnu mailing listu (najbolje onu svoje distribucije). No, možda najbitnije je da osiguramo sustav zaustavljanjem nepotrebnih servisa.

### Manje je bolje

Današnje distribucije, neposredno nakon instalacije, pokreću jednostavno previše raznih

vrsta servisa. To su programi koji osluškuju dolazeće zahteve i izvršavaju neku funkciju - web server je servis koji sluša na portu 80 i na zahtjev šalje HTML kôd klijentu. Odaberemo li serversku instalaciju pogotovo u nekih *user-friendly* distribucija, broj pokrenutih servisa daleko prelazi broj onih koji su nam stvarno tada, pa i ikad potrebbni. Jasno, distribucije ne mogu pogoditi naše želje i očito se nadaju da

ćemo biti zahvalniji ako nas sve već to čeka na računalu, ali u današnjem nesigurnom svijetu vrijedi ona - manje je bolje. Za dio njih možda nismo nikad ni čuli, pa što će nam onda? Neki servisi mogu sadržavati - sad ili u budućnosti - sigurnosne pogreške koje bi mogle ugroziti sigurnost podataka ili cijelog računala. Neki, iako sigurni, mogu odavati previše informacija o računalu. Najbolji primjer za to je finger. On pruža informacije o trenutno aktivnim korisnicima na sustavu i - osim zaštite privatnosti - može napadaču dati vrijedne informacije.

Finger je zaostatak iz prošlih dana Interneta kad smo se mogli pouzdati jedni u druge, a kad je naglasak bio na pružanju informacija, a ne nijihovoj zaštiti.

Zbog svega toga vrijedi pravilo: zaustavimo li servis, više se njime ne moramo zamarati i on ne predstavlja prijetnju. Mogli bi ga i ukloniti, jer ga možemo nekad slučajno pokrenuti kod restarta, ali moramo se pobrinuti i za to. Naše napore ćemo okrenuti prema detekciji i zauzavljanju pokrenutih servisa, odnosno otežavanju pristupa do njih.

```
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tcp        0      0 0.0.0.0:22              0.0.0.0:*                LISTEN
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tcp        0      0 0.0.0.0:5567            0.0.0.0:*                LISTEN
netgear@bmwday...:~$ netstat -an | grep :5568
tcp        0      0 0.0.0.0:5568            0.0.0.0:*                LISTEN
netgear@bmwday...:~$ netstat -an | grep :5569
tcp        0      0 0.0.0.0:5569            0.0.0.0:*                LISTEN
netgear@bmwday...:~$ netstat -an | grep :5570
tcp        0      0 0.0.0.0:5570            0.0.0.0:*                LISTEN
netgear@bmwday...:~$ netstat -an | grep :5571
tcp        0      0 0.0.0.0:5571            0.0.0.0:*                LISTEN
netgear@bmwday...:~$ netstat -an | grep :5572
tcp        0      0 0.0.0.0:5572            0.0.0.0:*                LISTEN
netgear@bmwday...:~$ netstat -an | grep :5573
tcp        0      0 0.0.0.0:5573            0.0.0.0:*                LISTEN
netgear@bmwday...:~$ netstat -an | grep :5574
tcp        0      0 0.0.0.0:5574            0.0.0.0:*                LISTEN
netgear@bmwday...:~$ netstat -an | grep :5575
tcp        0      0 0.0.0.0:5575            0.0.0.0:*                LISTEN
netgear@bmwday...:~$ netstat -an | grep :5576
tcp        0      0 0.0.0.0:5576            0.0.0.0:*                LISTEN
netgear@bmwday...:~$ netstat -an | grep :5577
tcp        0      0 0.0.0.0:5577            0.0.0.0:*                LISTEN
netgear@bmwday...:~$ netstat -an | grep :5578
tcp        0      0 0.0.0.0:5578            0.0.0.0:*                LISTEN
netgear@bmwday...:~$ netstat -an | grep :5579
tcp        0      0 0.0.0.0:5579            0.0.0.0:*                LISTEN
netgear@bmwday...:~$ netstat -an | grep :5580
tcp        0      0 0.0.0.0:5580            0.0.0.0:*                LISTEN
netgear@bmwday...:~$ netstat -an | grep :5581
tcp        0      0 0.0.0.0:5581            0.0.0.0:*                LISTEN
netgear@bmwday...:~$ netstat -an | grep :5582
tcp        0      0 0.0.0.0:5582            0.0.0.0:*                LISTEN
netgear@bmwday...:~$ netstat -an | grep :5583
tcp        0      0 0.0
```