



Importance of local content

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Background

- 15 years of free & open source software involvement
- Software engineering background
- Founder of **BHNIX initiative** in 2011
 - Attended MENOG 7
 - Gave speech at SEE 1 about the lessons learnt in the first attempt to establish an IXP

Local content

- Local websites
- Local web hosting companies
- CDNs
- Software mirrors
- Video sites
- etc



Local content

Most visited websites, source: dotMetrics

Website	Hosting
olx.ba	OVH / France
klix.ba	cloudflare
avaz.ba	cloudflare
cazin.net	cloudflare
dnevnik.ba	cloudflare
azra.ba	cloudflare
index.hr	cloudflare
dnevnik.hr	cloudflare
biznis.ba	cloudflare
oslobodjenje.ba	cloudflare
sportsport.ba	cloudflare
radiosarajevo.ba	cloudflare
telegraf.rs	Belgrade
24sata.hr	Zagreb

Local content / lack of local content

- Most of the traffic routed to Belgrade, Zagreb, Vienna or Budapest POPs
- Local content
 - government websites
 - e-services

Local content = catalyst
for IXP traffic

State of local software mirrors

- Centos, Ubuntu, NTP
- Not well maintained, lack of full time commitment from maintainers
- Poor/neglected infrastructure, mirrors missing updates, lagging behind for days



Avdija

Dec '08

Na zahtjev mnogobrojne zajednice Centos korisnika u Bosni i Hercegovini, BIHnet, vodeći ISP u državi je pripremio službeni Centos mirror za Bosnu i Hercegovinu.

Mirror je za korisnike ADSL usluge dostupan unutar Free zone, te ga mogu koristiti bez obračunavanja prometa. Mirror je također dostupan i za sve ostale korisnike.

Mirror je dostupan preko HTTP, FTP i RSYNC protokola preko slijedecih adresa:

<http://mirror.centos.com.ba> 3 /

<ftp://mirror.centos.com.ba/centos/>

<rsync://mirror.centos.com.ba/centos/>

9 YEARS LATER



emirb

Feb '18

Farewell nakon 10 godina postojanja, gore spomenuti mirror je nažalost nedostupan već skoro 6 mjeseci i potpuno je ugašen.

Uzimajući u obzir potrebu za jednim lokalnim mirrorom, njegovo mjesto je zamijenio mirror.ba i time postao jedini domaći mirror, sa sljedećim adresama:

<http://centos.mirror.ba/> 2

<ftp://mirror.ba/centos/>

<rsync://mirror.ba/centos/>

Pozdrav 😊

Importance and benefits of local mirrors

- Geographical traffic routing to ensure delivery to the end user in the **fastest possible way**
- Ensure highest level of security for local infrastructure: **server updates, security patches**
- Generate positive, **organic**, almost highly automated traffic **within the country** and or region
 - Serving users from surrounding (ex-Yu) countries as well as Italy, Bulgaria and Romania

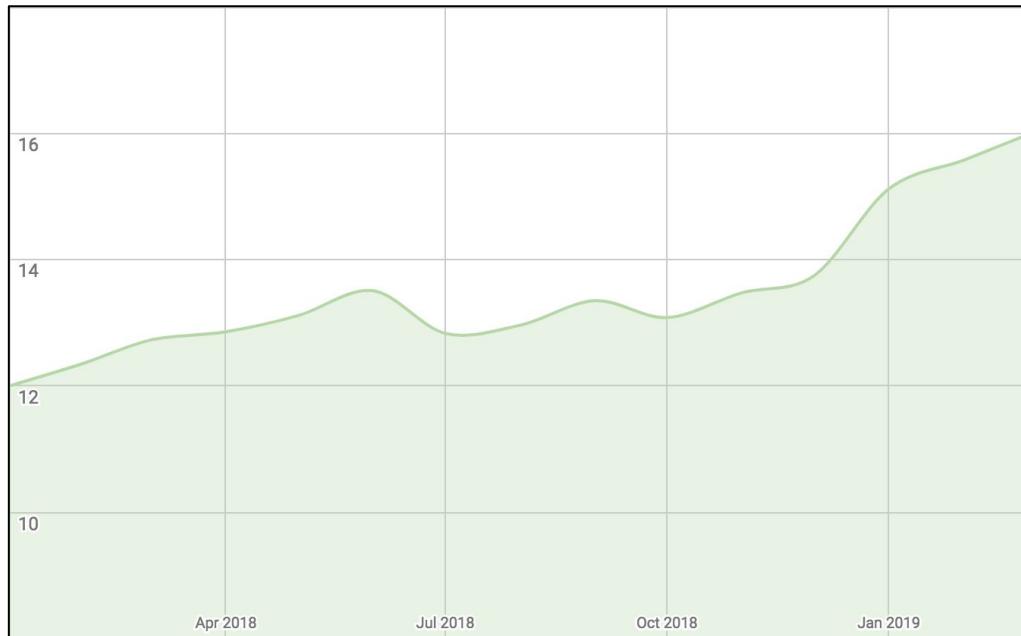


Projects

- **Ubuntu**
- **CentOS**
- **Arch Linux**
- **LibreOffice**
- **VideoLAN**
- PHP documentation
- Apache, CPAN, GNU, TLDP, etc.
- Network time protocol server



Statistics



- Around 15 TB of monthly traffic
- Steady increase

Future plans

- Adding new server for redundancy, splitting projects due to **disk space requirements**
- Currently no sponsors, ran and paid privately
- Moving the server to UTIC to ensure long-term project future

Questions?

Thanks

