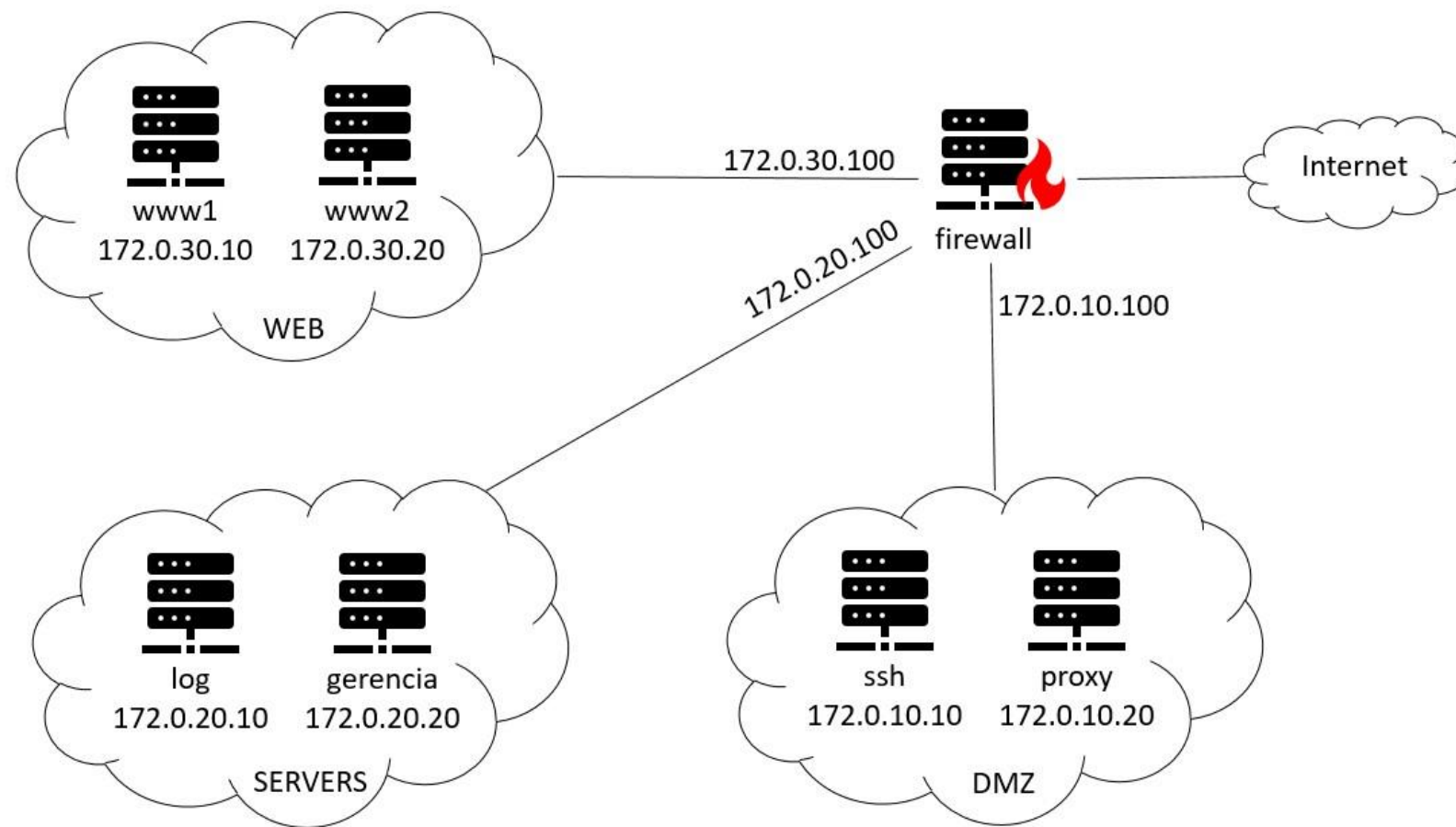


UNICAMP PROJETO INF574

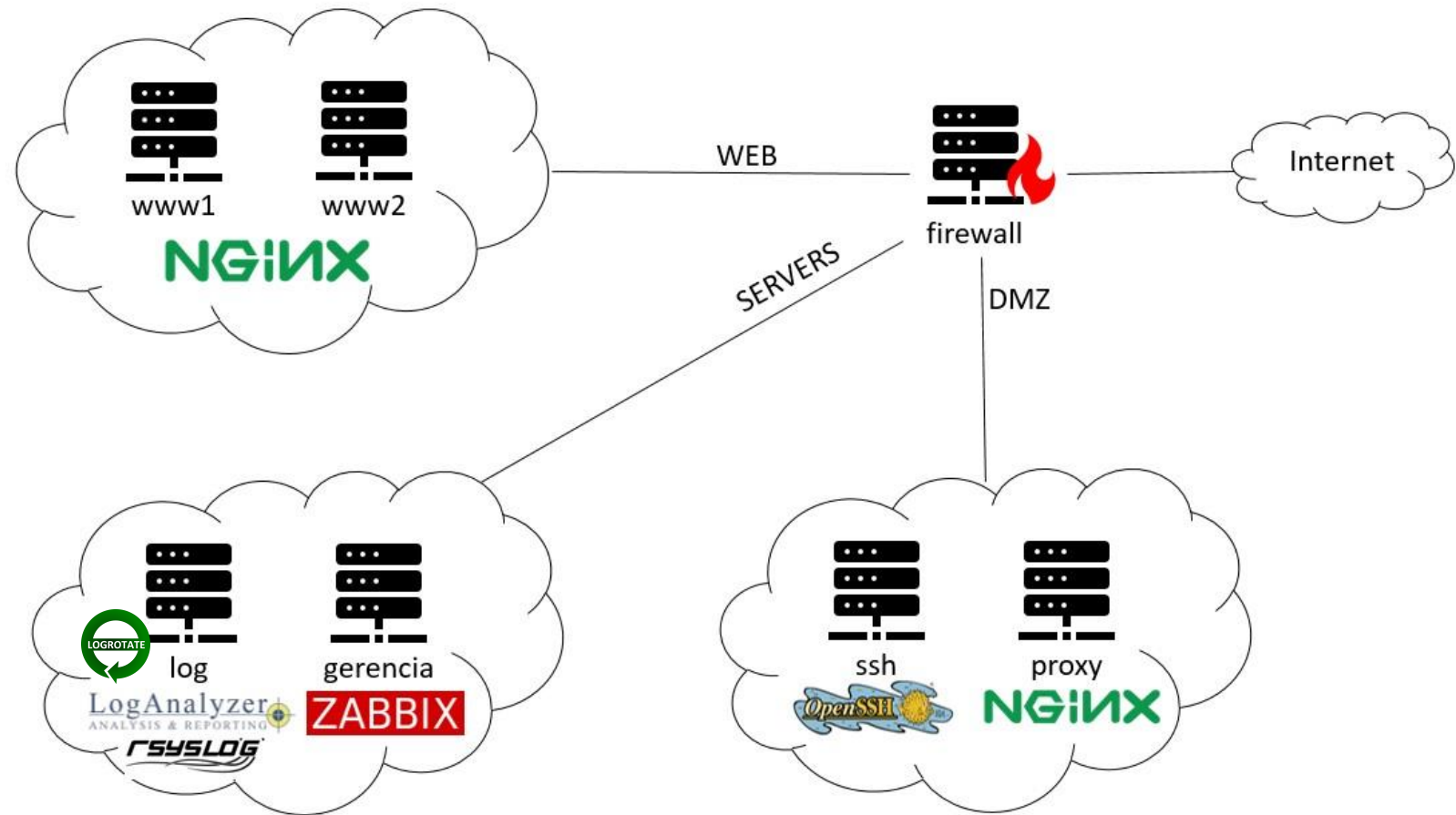
Gustavo Celani



TOPOLOGIA

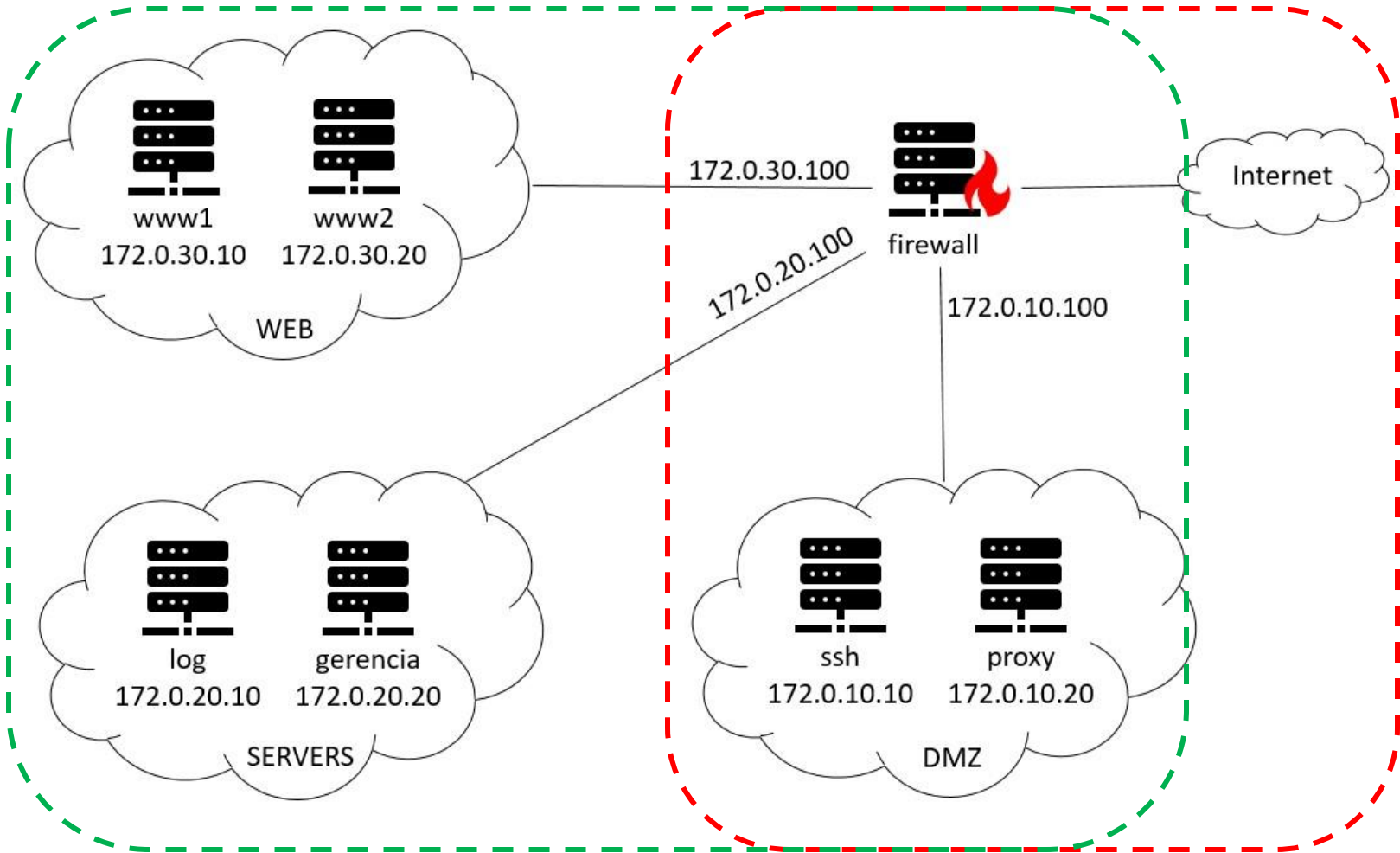


TOPOLOGIA



Ação	Container	IP	Porta
Permitir	SSH	172.0.10.10	4578
Permitir	Proxy	172.0.10.20	443

FIREWALL



SSH

- SSH Protocol 2
- Disabling root login
- Client sessions
 - Client Alive Interval: 300
 - Client Alive Count Max: 3
- Avoiding default port (22 -> 4578)
- Disabling X11 forwarding
- Only 'ssh_user' allowed
- 3-Factor Authentication
 - Password
 - RSA Key
 - Challenge PAM with Google-Authenticator
- Fail2ban
 - Selected ban time: 10s (demonstration)
 - 3 Max retries
 - Alias to watch logs: `$ log-fail2ban`
- Firewall rules



PROXY

- TLS over HTTP (HTTPS)
- Load Balancer for WWW1 and WWW2
- Reverse Proxy
- DDoS Prevention
- Firewall rules
- Load Balancer of web servers
 - <https://172.0.10.20>
 - <https://172.0.10.20/www>
- WWW1 Web Server
 - <https://172.0.10.20/www1>
- WWW2 Web Server
 - <https://172.0.10.20/www2>
- LogAnalyzer
 - <https://172.0.10.20/log>
- Zabbix
 - <https://172.0.10.20/gerencia>



LOG

- Avoiding Rsyslog default port (514 -> 5689)
- Allowed networks whitelist
- Log rotation weekly
- Firewall rules



GERENCIA

- Avoiding default passwords (Admin/zabbix)
- Removing guest users
- Firewall rules

The ZABBIX logo consists of the word "ZABBIX" in a bold, white, sans-serif font, centered within a solid red rectangular background.

ZABBIX



OBRIGADO!

Projeto disponível em
<https://github.com/gustavocelani>