

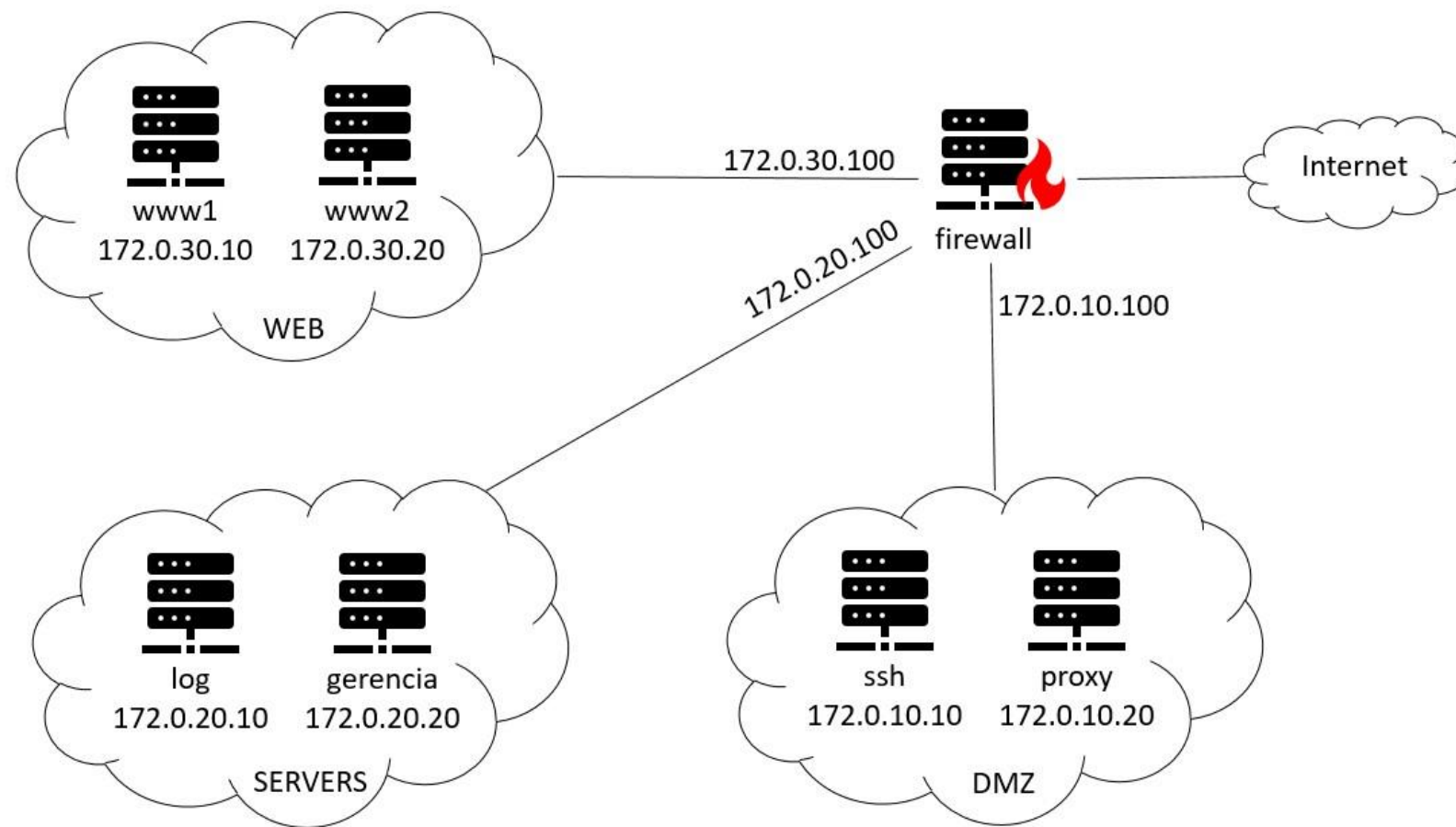
# UNICAMP PROJETO INF574

Gustavo P o Celani

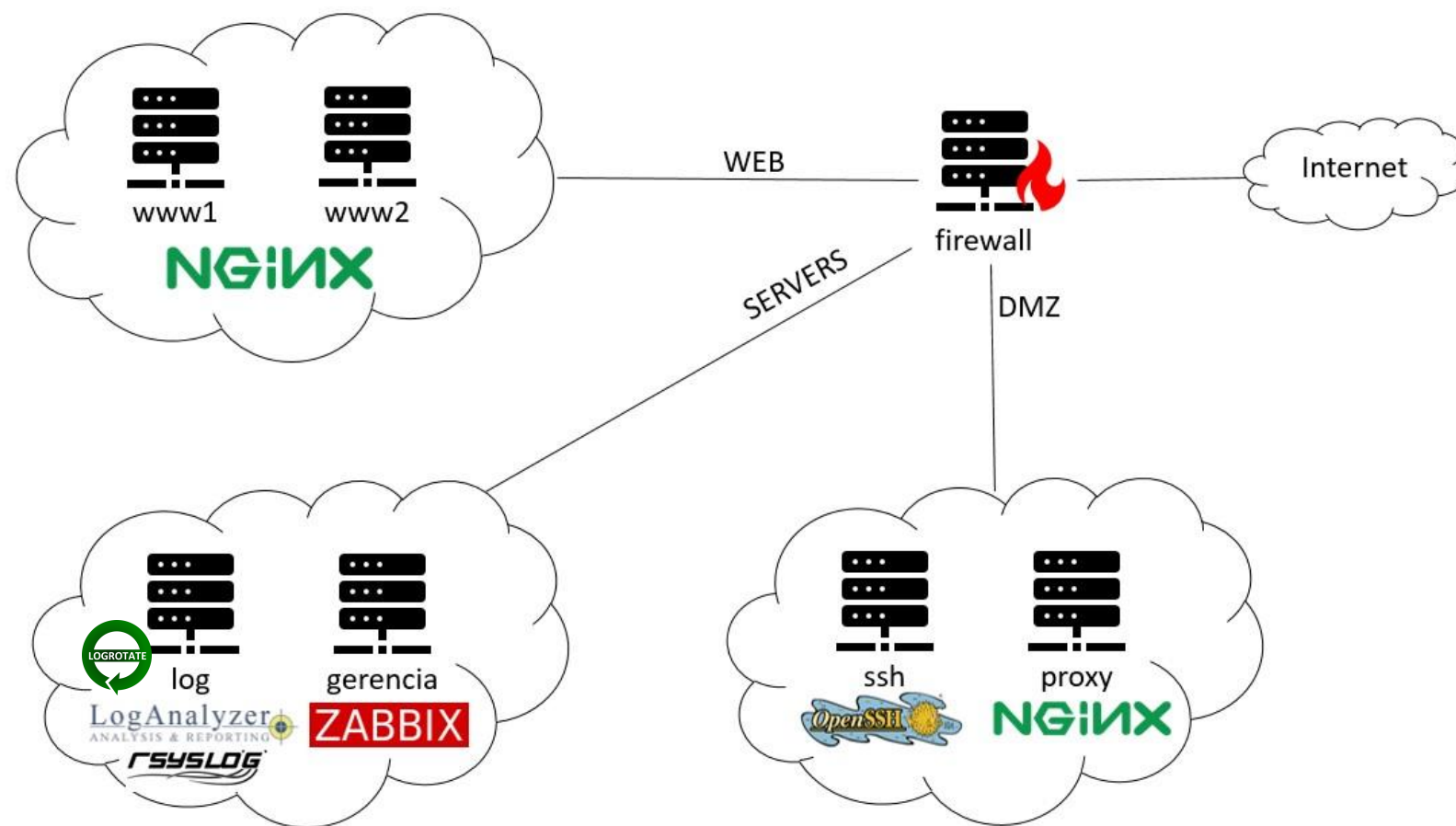
Sandra



# TOPOLOGIA

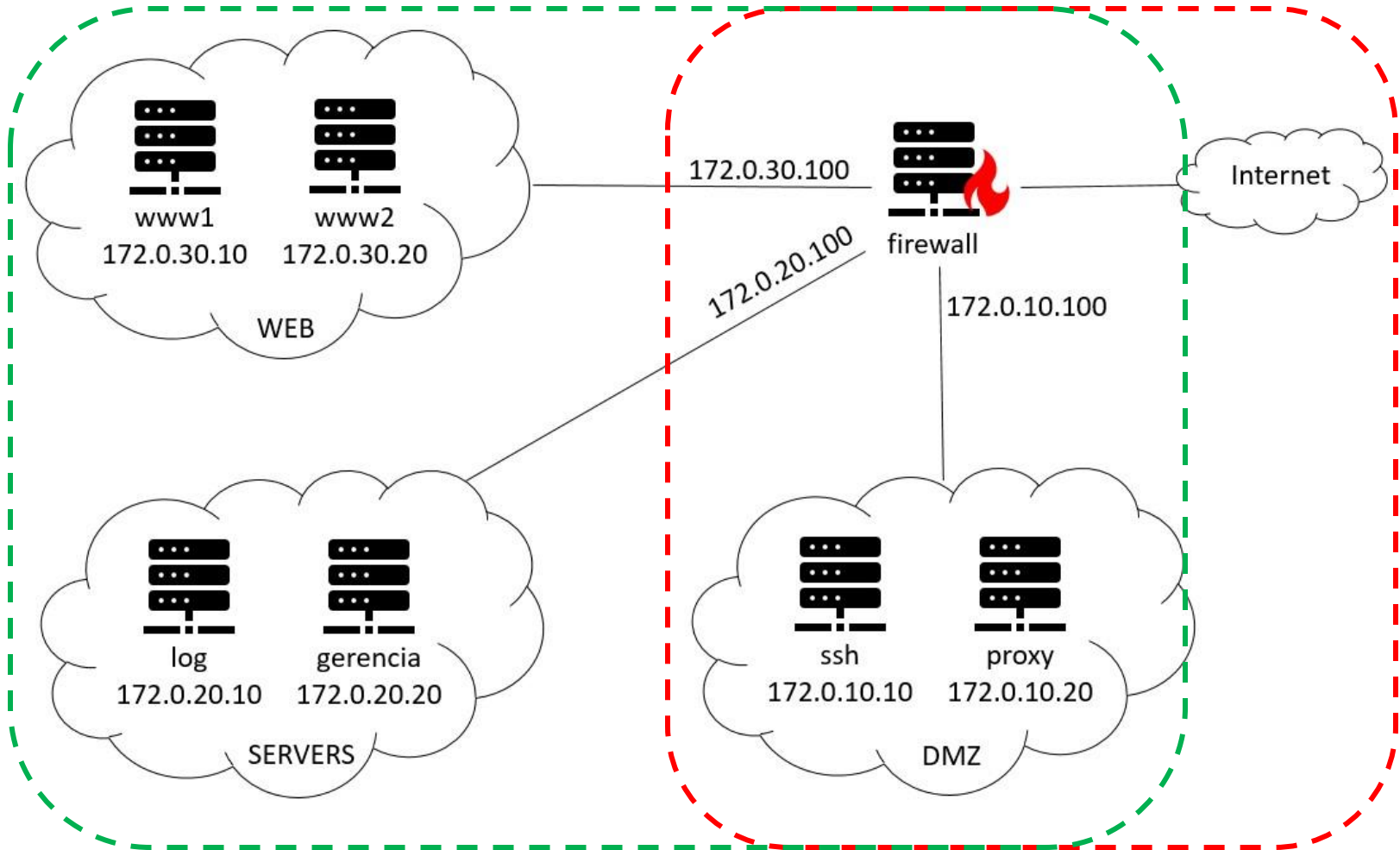


# TOPOLOGIA



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

FIREWALL



# SSH

- SSH Protol 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

**ZABBIX**





OBRIGADO!

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

