



==> Conceptos Teóricos Breves:

- ‘**URL Filtering**’ posee 2 características importantes para los administradores de redes:
 - ↘ Control de los recursos web que los usuarios pueden tener acceso basados en categorías o listas específicas: ‘**White List**’ o ‘**Black List**’.
 - ↘ Capa adicional de seguridad para prevenir que el usuario utilice sitios maliciosos.

↘ ↘ ==> URL Filtering → Flavours:

- Local.
- Websense Redirect.
- Surfcontrol (Websense).
- ‘**Websense Enhanced**’. ← **Configuraremos este tipo.**

↘ ↘ ==> Configuración de URL Filtering con un perfil por defecto.

→ Respalda Configuración Inicial → ‘rescue’ y ‘autorecovery’:

```
root@juniper-01> request system autorecovery state save
Saving config recovery information
Saving license recovery information
Saving BSD label recovery information
```

```
root@juniper-01> request system configuration rescue save
```

→ Establecer perfil → ‘junos-wf-enhanced-default’:

```
root@juniper-01# set security utm utm-policy UTM-BASICA web-filtering http-profile junos-wf-enhanced-default
```

```
root@juniper-01# show security utm utm-policy UTM-BASICA
```

```
anti-virus {
  http-profile SOPHOS-PERFIL-01;
  ftp {
    upload-profile SOPHOS-PERFIL-01;
    download-profile SOPHOS-PERFIL-01;
  }
}
```

```
web-filtering {
```

```
http-profile junos-wf-enhanced-default;  
}
```

→ Definimos políticas entre ZONAS:

ZONA 'Internal':

```
root@juniper-01# edit security policies from-zone Internal to-zone Internet policy INTERNAL-OUTBOUND
```

```
[edit security policies from-zone Internal to-zone Internet policy INTERNAL-OUTBOUND]
```

```
root@juniper-01# set match source-address any destination-address any application [junos-http junos-ftp]
```

```
[edit security policies from-zone Internal to-zone Internet policy INTERNAL-OUTBOUND]
```

```
root@juniper-01# set then permit application-services utm-policy UTM-BASICA
```

```
[edit security policies from-zone Internal to-zone Internet policy INTERNAL-OUTBOUND]
```

```
root@juniper-01# set then log session-close
```

```
[edit security policies from-zone Internal to-zone Internet policy INTERNAL-OUTBOUND]
```

```
root@juniper-01# show  
match {  
    source-address any;  
    destination-address any;  
    application [ junos-http junos-ftp ];  
}  
then {  
    permit {  
        application-services {  
            utm-policy UTM-BASICA;  
        }  
    }  
    log {  
        session-close;  
    }  
}
```

ZONA 'OFICINA-100':

```
root@juniper-01# edit security policies from-zone OFICINA-100 to-zone Internet policy OFICINA-100-OUTBOUND
```

[edit security policies from-zone **OFICINA-100** to-zone Internet policy **OFICINA-100-OUTBOUND**]

```
root@juniper-01# set match source-address any destination-address any application [junos-http junos-ftp]
```

[edit security policies from-zone **OFICINA-100** to-zone Internet policy **OFICINA-100-OUTBOUND**]

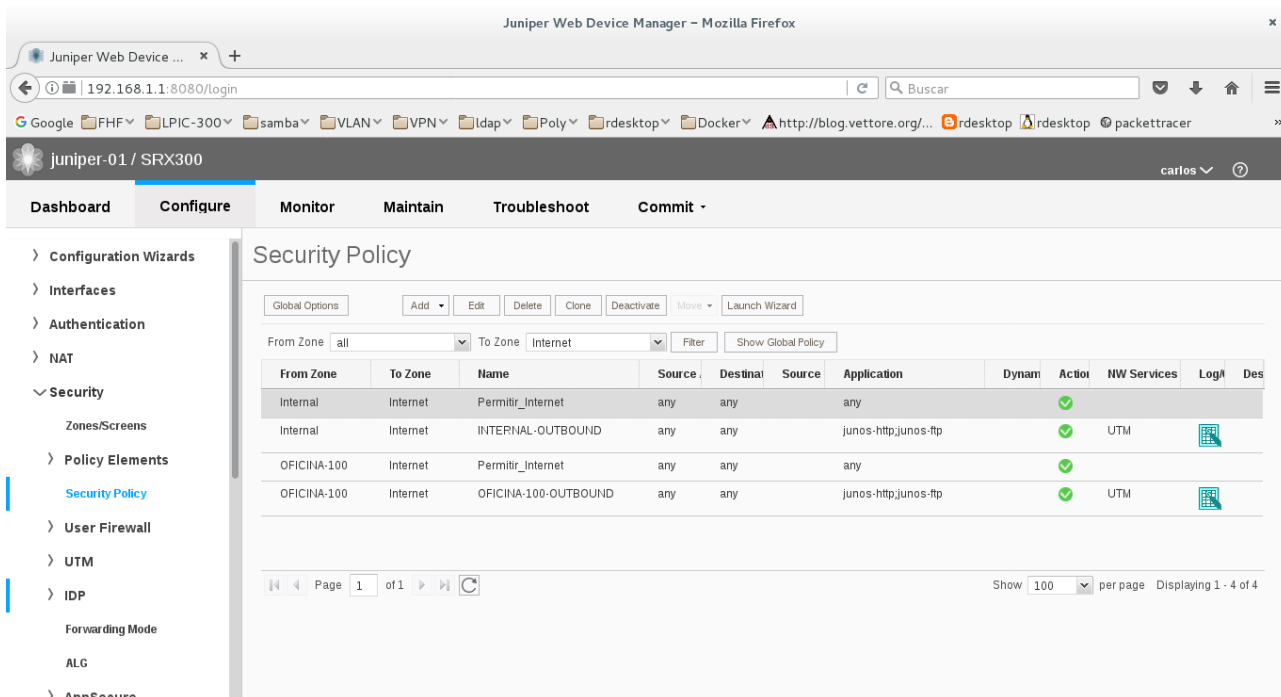
```
root@juniper-01# set then permit application-services utm-policy UTM-BASICA
```

[edit security policies from-zone **OFICINA-100** to-zone Internet policy **OFICINA-100-OUTBOUND**]

```
root@juniper-01# set then log session-close
```

[edit security policies from-zone **OFICINA-100** to-zone Internet policy **OFICINA-100-OUTBOUND**]

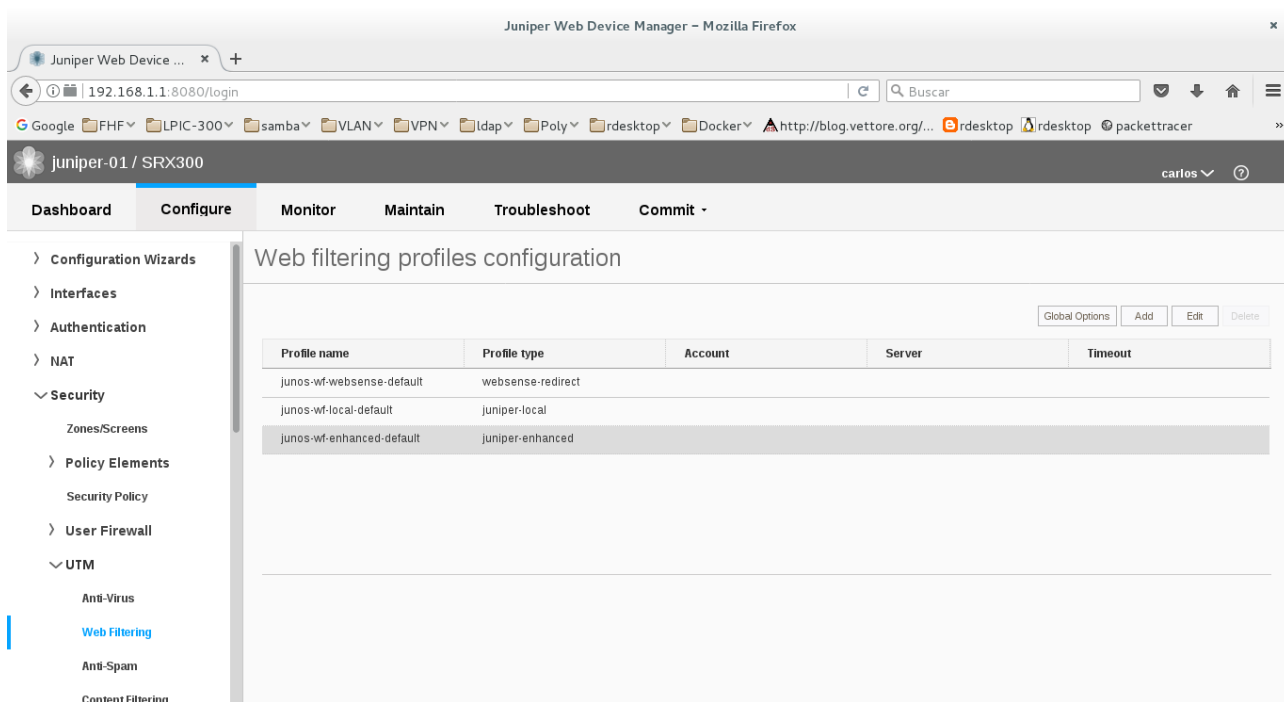
```
root@juniper-01# show
match {
  source-address any;
  destination-address any;
  application [ junos-http junos-ftp ];
}
then {
  permit {
    application-services {
      utm-policy UTM-BASICA;
    }
  }
  log {
    session-close;
  }
}
```



==> [‘Websense Enhanced Filtering’ -perfil por defecto-](#)

[↳ Conceptos Teóricos Breves:](#)

- Cache:
- Server: Permite definir diferentes servidores de búsqueda en cloud.
- Profile:
 - Block Message:
- Category:
- Custom Block Message:
- Default:
- No-Safe-Search:
- Site Reputation Action:
- Timeout:
- Fallback Settings:



→ [Comprobamos Uso de Licencia:](#)

root@juniper-01# run show system license

License usage:

Feature name	Licenses used	Licenses installed	Licenses needed	Expiry
anti_spam_key_sbl	0	1	0	2018-05-25 02:00:00 CEST
idp-sig	0	1	0	2018-05-25 02:00:00 CEST
dynamic-vpn	0	2	0	permanent
av key sophos engine	1	1	0	2018-05-25 02:00:00 CEST
wf key websense ewf	0	1	0	2018-05-25 02:00:00 CEST
remote-access-ipsec-vpn-client	0	2	0	permanent

→ [Parámetros Generales de 'web-filtering':](#)

```

root@juniper-01# set security utm feature-profile web-filtering type juniper-enhanced
root@juniper-01# set security utm feature-profile web-filtering juniper-enhanced cache timeout 1800
root@juniper-01# set security utm feature-profile web-filtering juniper-enhanced cache size 1500
root@juniper-01# set security utm application-proxy traceoptions flag all
    
```

→ [Parámetros → 'host cloud':](#)

```
root@juniper-01# set security utm feature-profile web-filtering juniper-enhanced server host  
rp.cloud.threatseeker.com
```

```
root@juniper-01# set security utm feature-profile web-filtering juniper-enhanced server port 80
```

→ [Categorías Añadidas:](#)

```
root@juniper-01# set security utm feature-profile web-filtering juniper-enhanced profile JUNOS-  
FILTRO-WEB category Enhanced_Hacking action log-and-permit
```

```
root@juniper-01# edit security utm feature-profile web-filtering juniper-enhanced profile JUNOS-  
FILTRO-WEB
```

```
[edit security utm feature-profile web-filtering juniper-enhanced profile JUNOS-FILTRO-WEB]
```

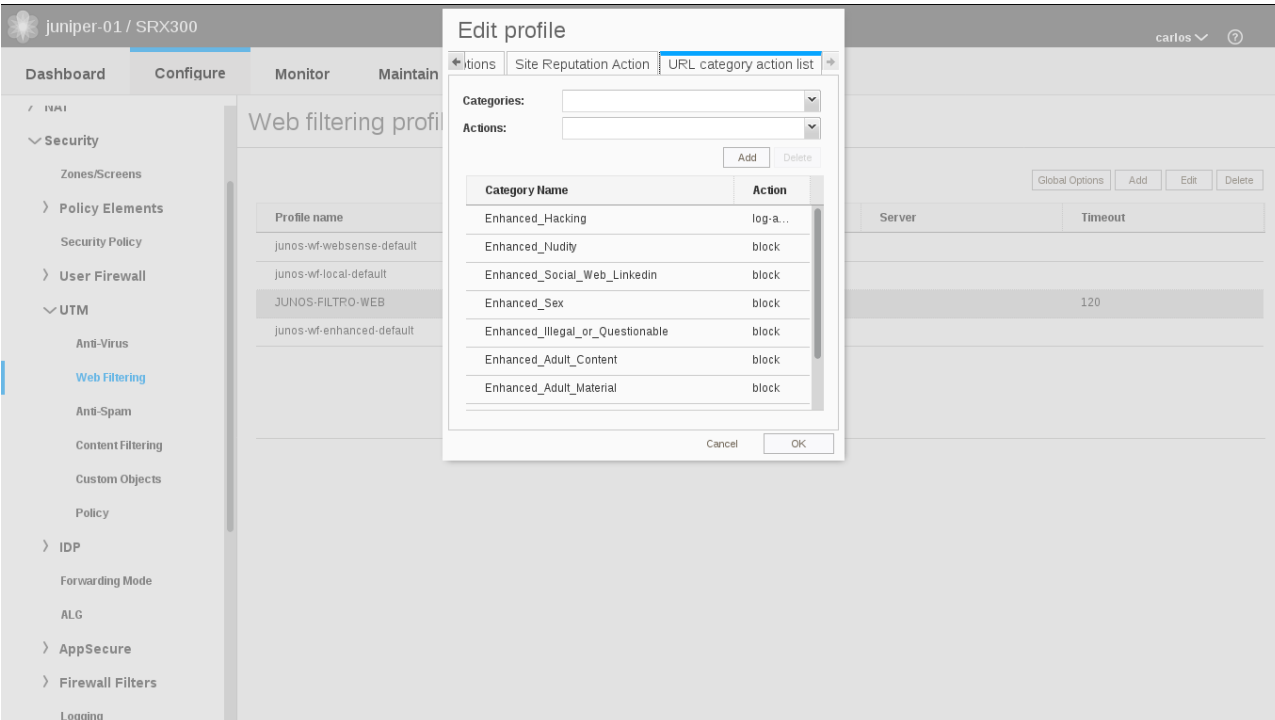
```
[edit security utm feature-profile web-filtering juniper-enhanced profile JUNOS-FILTRO-WEB]
```

```
root@juniper-01# set category Enhanced_Illegal_or_Questionable action block
```

```
[edit security utm feature-profile web-filtering juniper-enhanced profile JUNOS-FILTRO-WEB]
```

...

[Mejor indicar las categorías a través de J-Web, ...](#)



The screenshot shows the Juniper J-Web interface for configuring UTM. The 'Edit profile' dialog is open, showing the 'URL category action list' configuration. The dialog has a table with the following data:

Category Name	Action
Enhanced_Hacking	log-a...
Enhanced_Nudity	block
Enhanced_Social_Web_Linkedin	block
Enhanced_Sex	block
Enhanced_Illegal_or_Questionable	block
Enhanced_Adult_Content	block
Enhanced_Adult_Material	block

→ [Configurar Acción de Reputación de los Sitios.](#)

```
root@juniper-01# edit security utm feature-profile web-filtering
```

```
[edit security utm feature-profile web-filtering]
```

```
root@juniper-01# set juniper-enhanced profile JUNOS-FILTRO-WEB site-reputation-action  
very-safe permit
```

```
[edit security utm feature-profile web-filtering]
```

```
root@juniper-01# set juniper-enhanced profile JUNOS-FILTRO-WEB site-reputation-action  
moderately-safe log-and-permit
```

```
[edit security utm feature-profile web-filtering]
```

```
root@juniper-01# set juniper-enhanced profile JUNOS-FILTRO-WEB site-reputation-action  
fairly-safe log-and-permit
```

```
[edit security utm feature-profile web-filtering]
```

```
root@juniper-01# set juniper-enhanced profile JUNOS-FILTRO-WEB site-reputation-action  
suspicious log-and-permit
```

```
[edit security utm feature-profile web-filtering]
```

```
root@juniper-01# set juniper-enhanced profile JUNOS-FILTRO-WEB site-reputation-action  
harmful block
```

```
[edit security utm feature-profile web-filtering]
```

```
root@juniper-01# set juniper-enhanced profile JUNOS-FILTRO-WEB custom-block-message "***  
NO PERMITIDO - Bloqueo Juniper ***"
```

```
[edit security utm feature-profile web-filtering]
```

```
root@juniper-01# set juniper-enhanced profile JUNOS-FILTRO-WEB default log-and-permit
```

```
[edit security utm feature-profile web-filtering juniper-enhanced profile JUNOS-FILTRO-WEB]
```

```
root@juniper-01# set fallback-settings default log-and-permit
```

```
[edit security utm feature-profile web-filtering juniper-enhanced profile JUNOS-FILTRO-WEB]
```

```
root@juniper-01# set fallback-settings server-connectivity log-and-permit
```

```
[edit security utm feature-profile web-filtering juniper-enhanced profile JUNOS-FILTRO-WEB]
```

```
root@juniper-01# set fallback-settings timeout log-and-permit
```

```
[edit security utm feature-profile web-filtering juniper-enhanced profile JUNOS-FILTRO-WEB]
```

```
root@juniper-01# set fallback-settings too-many-requests log-and-permit
```

→ Aplicación de Políticas:

```
root@juniper-01# set security utm utm-policy UTM-BASICA web-filtering http-profile JUNOS-
FILTRO-WEB
```

→ [Comprobaciones:](#)

```
root@juniper-01> show security utm web-filtering status
UTM web-filtering status:
  Server status: Juniper Enhanced using Websense server UP
```

→ [Opciones Troubleshooting:](#)

```
root@juniper-01# set security utm traceoptions flag all
root@juniper-01# set security utm feature-profile web-filtering traceoptions flag all
```

→ [Problemas:](#)

```
root@juniper-01> ping rp.cloud.threatseeker.com
PING rp.cloud.threatseeker.com (85.115.52.140): 56 data bytes
64 bytes from 85.115.52.140: icmp_seq=0 ttl=52 time=85.504 ms
64 bytes from 85.115.52.140: icmp_seq=1 ttl=52 time=97.929 ms
64 bytes from 85.115.52.140: icmp_seq=2 ttl=52 time=87.935 ms
```

```
--- rp.cloud.threatseeker.com ping statistics ---
3 packets transmitted, 3 packets received, 0% packet loss
round-trip min/avg/max/stddev = 85.504/90.456/97.929/5.377 ms
```

```
root@juniper-01> show security utm web-filtering status
UTM web-filtering status:
  Server status: Juniper Enhanced using Websense server UP
```

==> [Comprobación de Uso de Licencias:](#)

```
root@juniper-01# run show system license
```

License usage:

Feature name	Licenses used	Licenses installed	Licenses needed	Expiry
anti_spam_key_sbl	0	1	0	2018-05-25 02:00:00 CEST
idp-sig	0	1	0	2018-05-25 02:00:00 CEST
dynamic-vpn	0	2	0	permanent
av_key_sophos_engine	1	1	0	2018-05-25 02:00:00 CEST
wf_key_websense_ewf	1	1	0	2018-05-25 02:00:00 CEST
remote-access-ipsec-vpn-client	0	2	0	permanent

→ [Comprobar y salvar Configuración:](#)

```
root@juniper-01# commit check
configuration check succeeds
```



```
root@juniper-01# commit
commit complete
```

→ **Código:**

```
root@juniper-01# show security utm feature-profile web-filtering
type juniper-enhanced;
traceoptions {
  flag all;
}
juniper-enhanced {
  cache {
    timeout 1800;
    size 1500;
  }
  server {
    host rp.cloud.threatseeker.com;
    port 80;
  }
  profile JUNOS-FILTRO-WEB {
    category {
      Enhanced_Hacking {
        action log-and-permit;
      }
      Enhanced_Nudity {
        action block;
      }
      Enhanced_Social_Web_Linkedin {
        action block;
      }
      Enhanced_Sex {
        action block;
      }
      Enhanced_Illegal_or_Questionable {
        action block;
      }
      Enhanced_Adult_Content {
        action block;
      }
      Enhanced_Adult_Material {
        action block;
      }
      Enhanced_Gay_or_Lesbian_or_Bisexual_Interest {
        action block;
      }
    }
  }
}
```

```
    }
    Enhanced_Sex_Education {
        action block;
    }
}
site-reputation-action {
    very-safe permit;
    moderately-safe log-and-permit;
    fairly-safe log-and-permit;
    suspicious log-and-permit;
    harmful block;
}
default log-and-permit;
custom-block-message "*** NO PERMITIDO - Bloqueo Juniper ***";
fallback-settings {
    default log-and-permit;
    server-connectivity log-and-permit;
    timeout log-and-permit;
    too-many-requests log-and-permit;
}
timeout 120;
}
```

[edit]

BIBLIOGRAFÍA Y DOCUMENTACIÓN:

- **Juniper SRX Series. O'Reilly (Brad Woodberg & Rob Cameron) – Junio 2013.**
- **http://www.juniper.net/documentation/en_US/junos12.1x46/topics/example/security-utm-enhanced-web-filtering-configuring.html**
- **<https://kb.juniper.net/InfoCenter/index?page=content&id=KB22483&actp=METADATA>**