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# **F5 SSLO ãĆžãČČãČĹãČćãČČãČŮãČňãČd'ãČĹ'ãĂĂIn- terSafe WebFilterçůÍ**

**May 09, 2022**



|          |   |          |
|----------|---|----------|
| <b>1</b> | <b>ãAřãAYãĆAãAń</b>   | <b>3</b> |
| 1.1      | F5 SSLO (L3 Explicit Proxy) ãAřInterSafe WebFilterãAóéĂčæŘžèí■ăóŽ . . . . . | 3        |



æIJĀçŧČæŽt'æŮřæŮě: 2021āžt'1æIJĹ22æŮě

F5 SSL Orchestrator (SSLO)āAĹ WEB āČŤāČcāČňāČĹāČĹāČŤāČřēčĵāŠAāAğāAČāČŇ InterSafe WebFil-  
ter āAĹāAőēĀcæŘžæĹ'ŇéāEāČŠāAŤçt'žāžŇēĠt'āAŮāAĴāAŽāĀČ (æIJňāČňāČd'āČĹ'āAřāĀĀÿĀāžęBIG-  
IPāČŠēĹ■āőŽāAŮāAšāAšāAĹāAőāAČāČŇæŮžāČŠārĴēsqaĹāAŮāAšāEĚāőžāAĹāAĴāAčāAęāAŁāČĹāAĴāAŽāĀČ)



# CHAPTER 1

## ãAŕãAŸãÇAãAñ

ãAŞãAôãCŽãCijaCÿãAğãAŕãÃãAŞãCŇãCL'ãAôãCĤãCČãCûãCčãCňãAĤãCL'ãC■ãCěãCqãCşãCĹãAôëcIJèúşãAÍãAĤãCNèşGæÚZãF5ãAôãCĤãCČãCûãCčãCňãAĤãCL'ãC■ãCěãCqãCşãCĹãAŕãAŞãAqãCL'ãAñãAŤãAŮãAĐãA;ãAŽãĂC

- AskF5: <https://support.f5.com/csp/home>
- F5 Cloud Docs: <https://clouddocs.f5.com/>
- F5 DevCentraliiJĹãCşãCşãCčãCŇãCĚãCčiiJĹ: <https://devcentral.f5.com/>

## 1.1 F5 SSLO (L3 Explicit Proxy) ãAĬInterSafe WebFilterãAôéĂčæŘžè■ăŏŽ

æIJñããAğãAŕãÃãSSLOãAôãRfèçŮãŇŮãC;ãCijaCşãAñInterSafe WebFilterãCŠéĚ■ç;ôãAŮãÃAĬCAPãCŮãC■ãCĹãCşãCňãAğéĂčæ

### 1.1.1 F5 SSLOãAĬInterSafe WebFilteréĂčæŘžãAôætAãCŇ

F5 SSLOãAĬInterSafe WebFilterãAôéĂčæŘžãAôætAãCŇãAŕãžèäÿŇãAôéĂŽãCLãAğãAŽãĂC

1. ãCŕãCŕ'ãCd'ãCčãCşãCĹãAŇãCŠãC;ãCşãCş(AD)ãAñãC■ãCŕãCĤãCşãAŮãA;ãAŽãĂC
2. SSLOãAğãCčãCijaCűè■èĬjãCŠãôşæŮ;ãAŮ(NTLMè■èĬjãAĤKerberosè■èĬjãAôãat'ãŖĹãAŕèGĤãŇŤçŽĐãAñè■èĬjãAŇãôşæŮ
3. WEBæŐčçũŽãĚĹæCĚããşãAĬSSLOãAğè■èĬjãAŇãĹŖãĹşãAŮãAşãCčãCijaCűæCĚããşãCŠ InterSafe WebFilterãAñĬCAPãAğéĂAãCĹãA;ãAŽãĂC
4. ãCčãCijaCűæCĚããşãCŠãĚCãAñURLãCŤãCčãCňãCĤãCĤãCşãCŕãCňãCijaCňãCŠéAĬ'çŦĬãAŮãAæŐčçũŽãAŇèĬsãŖŕãAŤãCŇãA
5. èĬsãŖŕãAŤãCŇãAşéĂŽãĚqãAñéŮcãAŮãAqãAŕãÃãSSL éĂŽãĚqãCŠãĚ■æŽŮãŖũãŇŮãAŮãAWEBAcŤãCijaCŖãAŸæŐčçũŽãA

## 1.1.2 æIJňăĆňăĆd'aČĹ'aAŮăĹĹ'çTĹăČŘăČijăČyăČgăČşăAĹæğNæĹŘăĆd'aČaăČijăČy

æIJňăĆňăĆd'aČĹ'aAŮăĂăzëäyNăAŮëç;ăŞAăČŘăČijăČyăČgăČşăĆŞăĹĹ'çTĹăAŮăAęăĂAăĹIJæĹŘăAŮăAęăAĹăĆĹăAĹăAŻăĂĆ

1. âĹĹ'çTĹăČŘăČijăČyăČgăČş

|                     |                              |
|---------------------|------------------------------|
| èç;ăŞAăŘ■           | ăČŘăČijăČyăČgăČş             |
| F5 SSL Orchestrator | v15.1.2-0.0.9Final âĂŞ 7.5.2 |
| InterSafe WebFilter | Ver.9.1 Build1501            |

### Note:

- ĩijĹăŘĎF5ăzčçŘEăžŮăAğăĆĹăČĹăČijăČĹăŘfëÇ;ăAĹçfĎăŽşăAňăAĹăAĎăAęăĂAĹĹ'æëĹăĹŽæIJæŮřăAŮăČŘăČijăČyăČgăČş
- ProxyèĹëĹĹăČŞëqŇăAĎăAŞăAĎăât'ăŘĹăAŮăĂAĹPMăAŮăČĹ'aČd'aĆzaČşăĆzaAŇăăĚëęAăĹăAĹăĆĹăAĹăAŻăĂĆ

2. æIJňăĆňăĆd'aČĹ'aAňăAĹăAŞăĆŇăğNæĹŘăĆd'aČaăČijăČy



### 1.1.3 āČĹ'āČd'āČzāČšāČzāČcāČřāČĚāČcāČZāČijāČŮāČgāČšāĀāČŮāČ■āČšāČŸāČgāČNāČšāČ

1. *Next* āČIJāČĹāČšāČšāČLijāČŮāČāČāČZāČĚ

2. āČĹ'āČd'āČzāČšāČzāČšāČcāČřāČĚāČcāČZāČijāČŮāČgāČšāČŮāČāČāČZāČĚ

3. āzēāŸNāAōāČcāČŸāČcāČijāČňijĹijĹSSLāČĹ'āRŮāČzāČ■āČŮāRŮāČŮijZLTM,AVR,iRulesLX,SSLOijĹ'ijEijĹēl■ēlijrijZAP  
āČšāČŮāČ■āČšāČŸāČgāČNāČšāČřāČŮāČāČāČZāČĚrijĹāČĹ'āČd'āČzāČšāČzāČřāČSSLOāČĹAPMāČŮijšāČd'āČšāČĹ'čŤĹāČŮāČāČ

4. *Next* aČIJãČĤãČšãČŠæĹijãAŮãAŁãAŽãĂĆ

5. aČZaČZaČČLāR■āĀāāČāČd'aČāāČĹāČijāČšāĀĀRootāČŠāČZaČČrāČijāČL' āČŠēÍ■āōŽāŮāAęāĀĀNext  
āČIJāČĚāČšāČŠāLijāŮāAĹāAŽāĀČ

6. SSLOāAğāČĭāČijāČŘēlijāŸŌāZÿāČŠāZÿāA■āRŽāAĹāČŇēŽŽāAňāL' ģTĭāAŽāČŇāĀĀCAēlijāŸŌāZÿāĀĀCAé■  
āČŠēAÿāŁđāŮāĀĀāžzāĎRāAőāR■āL'■ āČŠēÍ■āōŽāŮāĀĀNext āČIJāČĚāČšāČŠāLijāŮāAĹāAŽāĀČ

7. *Finished* āČIJāČĚāČšāČŠāLijāŮāAĹāAŽāĀČ

#### 1.1.4 æIJĀæŮřçĹ'ĹāĀőSSL Orchestrator RPMāAÿāAőāĆcāČČāČŮāČřāČňāČijāČĹ'

1. AskF5(<https://support.f5.com/>)āČĹāČĹæIJĀæŮřçĹ'ĹāĀőSSLO RPMāĆŠāČĀāČęāČşāČ■āČijāČĹ'āAŮāAġāAŽāĀĆ(SSLOāAñā



2. Self IPāAőěl■āőŽāČŠeqŇāAđāA;āAŽāĂĆ

3. āČGāČŤāČr'āČňāČLāČśāČijaČLāČęāČgāČd'āAőěl■āőŽāČŠeqŇāAđāA;āAŽāĂĆ

### 1.1.6 DNS, NTPāAőěl■āőŽ

1. DNSāAőěl■āőŽāČŠeqŇāAđāA;āAŽāĂĆ

2. NTPāAőel■āőŽāČŠēāŇāAĎāAčāAŽāĀČ

### 1.1.7 InterSafe WebFilterāAňāAęHTTP/HTTPSāĹd'āĹēāAŽāČNāAšāČAāAőel■āőŽiijĹLocal Traffic PolicyāAőel■āőŽiijĹ

āĀĀInterSafe WebFilter ICAPčĹĹāAřāĀAICAPāAőāČĹāČřāČĹāČzāČĹāČŸāČČāČĀāAőāŸĀēČĹāAgHTTPāČĹāČijāČŘāAŸāAőēĀŽāē WebFilterāAŇHTTP/HTTPSāĹd'āĹēāRřēČ;āAĹāAĹāČNāČĹāAĚāAňLocal Traffic Poli- cyāAňāAęāČňāČijāČňāČŠā;IJāĹRāAŮāAčāAŽāĀČ

1. **Local Traffic >> Policies >> Policies List** āAňāAęāĀACreate āČIJāČĹāČšāČŠāēLijāAŮāAčāAŽāĀČ

2. äzzæĎŘãAõãČĪãČĹãČůãČĵãŘ■ āČŠãĚãĹãŽãAŮãĀA>Create Policy āČĪãČĤãČšãČŠæĹĵãAŮãAĹãAŽãĀĆ

3. HTTPSçTĪãAõãČňãČĵãČňãČŠãĪJæĹŘãAŮãAĹãAŽãĀĆRulesãAõ Create āČĪãČĤãČšãČŠæĹĵãAŮãAĹãAŽãĀĆ

4. äzzæĎŘãAõRuleãŘ■ āČŠãĚãĹãŽãAŮãĀAMatch all of the following conditions: āAõ ïĵŇ  
āČdãČĵãČřãČŠãČřãČĹãČČãČřãAŮãĀAžëäÿŇãAõãČĹãAĚãAňãĚãĹãŽãAŮãAĹãAŽãĀĆ



|  |             |
|--|-------------|
| Match all of the following conditions:               | âŁĚëAæIŁçĐa |
| TCP port is any of 443 at client accepted time.      | âŁĚäĹ       |
| Apply to traffic on local side of external interface | âŁĚäĹ       |

5. âŔŊæġŸāAňāĀ**Do the following when the traffic is matched:** āAő *ijŇ*  
 āČdaČijaČraČŠaČraČĹaČČaČraČŮāĀāzēāyŇāAőāČĹāAĚāAňāĚēāŁZāAŮāĀSave  
 āČIJāČĚāČšāČŠāĹijaAŮāAĹāZāĀČijŁāČGaČŔāČČāČŕçTĹāAőāČāČraČňāČijaČňāAřāzzæĐŔāAġēŁ;āŁāāAŮāAĹāZāĀČij

|  |              |
|--|--------------|
| Do the following when the traffic is matched:  | āŁĚēēAæĹĴčĎa |
| Insert HTTP Header named urihttps with value tcl:[HTTP::uri] at request time.                | āŁĚēāĹ       |
| Replace HTTP URI full string with value tcl:https://[HTTP::host][HTTP::uri] at request time. | āŁĚēāĹ       |
| Disable response adapt at response time.   | āŁĚēāĹ       |
| Log message tcl: HTTPS(443) URI was replaced to: [HTTP::uri] at request time.                | āzzæĎŘ       |
| Facility: local0 Priority: info  | āzzæĎŘ       |

6. āŘŇæğŸāAñHTTPçŤĹāAőāČñāČijaČñāČŠäĴJæĹŘāAŮāAġāAZāĀĆ

|  |              |
|--|--------------|
| Match all of the following conditions:               | āŁĚēēAæĹĴčĎa |
| TCP port is any of 80 at client accepted time.       | āŁĚēāĹ       |
| Apply to traffic on local side of external interface | āŁĚēāĹ       |

|   |              |
|---|--------------|
| Do the following when the traffic is matched:   | āŁĚēēAæĹĴčĎa |
| Insert HTTP Header named urihttp with value tcl:[HTTP::uri] at request time.                | āŁĚēāĹ       |
| Replace HTTP URI full string with value tcl:http://[HTTP::host][HTTP::uri] at request time. | āŁĚēāĹ       |
| Disable response adapt at response time.  | āŁĚēāĹ       |
| Log message tcl: HTTP(80) URI was replaced to: [HTTP::uri] at request time.                 | āzzæĎŘ       |
| Facility: local0 Priority: info   | āzzæĎŘ       |

7. *Save* aČŮāČňāČijāČňāĪJæĹŔāĹNāAřāĀāžēäyNāAŮāČĹāAĚāAňāAĹāČĹāAĹāAŽāČSave *Draft*  
aČĪJāČĚāČšāČŠæĹijāAŮāAĹāAŽāČ

8. *Publish* aČĪJāČĚāČšāČŠæĹijāAŽāAĹāĀāžēäyNāAŮāČĹāAĚāAňāAĹāČĹāAĹāAŽāČ

### 1.1.8 NTLMēĹĹijēĹāŮŽ

- āĀĀAPMāAğēāNāAĚēĹēĹijāAŮēĹāŮŽāČŠēāNāAĎāAĹāAŽāČāAšāAšāAğāAřāĀĀNTLMēĹēĹijāAŮēĹāŮŽāČŠēāNāAĎāAĹāAŽāČ
1. **Access >> Authentication >> NTLM >> Machine Account** āČŠéAÿæĹđāAŮāĀACreate  
aČĪJāČĚāČšāČŠæĹijāAŮāAĹāAŽāČ

2. äzzæĐŘäAőäŘ■āL■ āČŠēl■āőŽāAŮāÄÄMachine Account Name āAňāAř äzzæĐŘäAőSS-  
 LOè■ŸāLēāŘ■ āČŠāĚēāLZāAŮāÄÄDomain FQDNāÄÄAdmināČęāČijāČüāŘ■ āAł āČŠāČzāČrāČijāČL'  
 āČŠāĚēāLZāAŮāÄÄJoin āČŠæLijāAŮāÄÄāZāÄČ

3. äzëäÿNāAőäČLāAĚāAňāAłāČLāA;āAŽāÄČ

4. Access >> Authentication >> NTLM >> NTLM Auth Configuration āČŠéAÿæLđāAŮāÄÄCreate  
 āČIJāČĚāČšāČŠæLijāAŮāÄÄāZāÄČ

5. äzzæĐŘäAőäŘ■āL■ āČŠēl■āőŽāAŮāÄÄMachine Account Name āAř  
 āĚLčlNä;IJæLŘāAŮāAšāČČāAő āČŠéAÿæLđāAŮāÄÄāZāÄČDomain Controller FQDN List

āAñāAř āAŤāĹřčŤlāAóāČĹ'aČaāČd'aČšāŘ■ijĹFQDNāŘ■ijĹ āČŠæŇĞăőŽāAŮāĀFinished  
āČIJāČĚāČšāČŠæLijāAŮāAĹāAŽāĀČ

6. Access >> Profiles/Policies >> Access Profiles(Per-Session Policies) āČŠéAÿæĹđāAŮāĀCreate  
āČIJāČĚāČšāČŠæLijāAŮāAĹāAŽāĀČ

7. āzzæĐŘāAóāŘ■āĹ■ āČŠéĹ■ăőŽāAŮāĀPolicy Type āAñ SWG-Explicit  
āČŠéAÿæĹđāAŮāĀCustomization Type āAñ Standard āČŠéAÿæĹđāAŮāĀUser Identifi-  
cation Method āAñāAęāĀCredential āČŠéAÿæĹđāAŮāĀNTLM Auth Configuration āAñ  
āĚĹčĹNă;IJæĹŘāAŮāAšāČČāAő āČŠéAÿæĹđāAŮāĀLanguages āAř āAŤāĹřčŤlāAóēĹĀēĹđ  
āČŠéAÿæĹđāAŮāAęāĀFinished āČIJāČĚāČšāČŠæLijāAŮāAĹāAŽāĀČ

8. äIJæLRãAŦãCŇăAŞAccess ProfileăAőăÿĂèëğăANăCL'ăĖŁçÍNäIJæLRăAUăAŞăCŮăČ■ăČŦăCqăČd'aČňăCŞèNăAd'aAŞăĂA  
Session PolicyænĐăAő *Edit* äCŞæLijăAUăAĭăAŽăĂC



11. NTLM Auth ResultäAõäRşäAõSuccessfuläAñäAd'äAłäAŇäĆNäČTäČ■äČijäČŠ **Deny** äAŇäĆL' **Allow**  
äAñäd'LæŽt'äAUäA¿äZäÄĆ

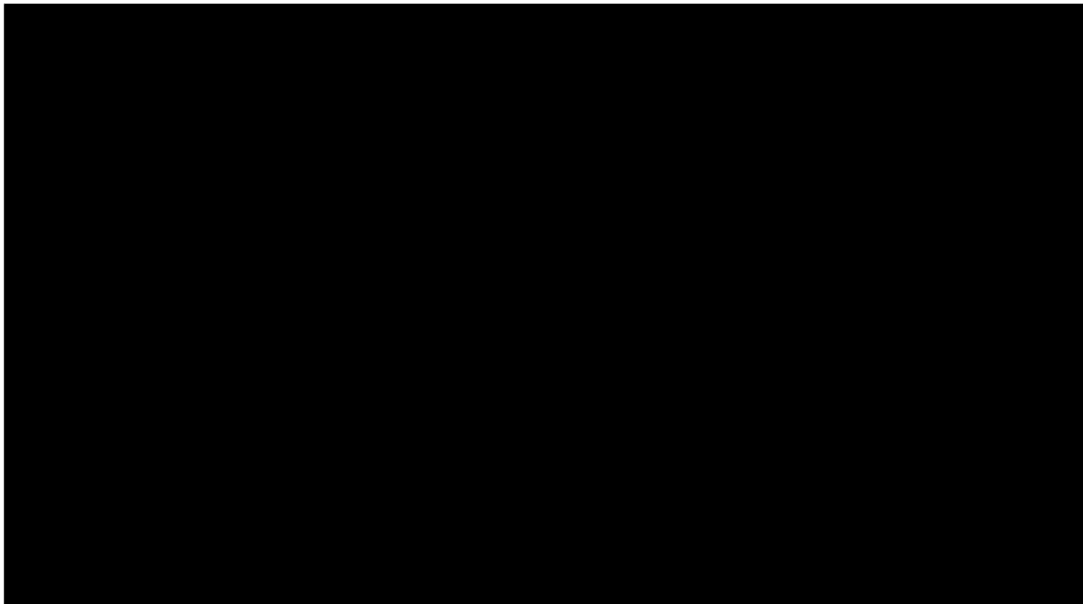


12. āŮčäŸĹāAŮ Apply Access Policy āČŠæĹijāAŮāĀAāČŮāČr'āČčāČŮāAŮVPEāČĹāČŮāČŠéŮĹ'āAŸāAĹāAŽāČ

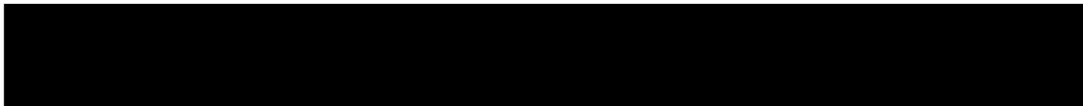
### 1.1.9 ēĹēĹijāČŸāČČāČĀæŃŒāĚēčŤĹiRuleāAŮāĹJæĹŔ

āĀāAŸāAŸāAğāAřāĀAāČčāČijāČŮēĹēĹijāČŸāČČāČĀijĹX-Authenticated-UserijĹ'āAĹAPMāAğēĹēĹijāAŤāČŃāAŸāČčāČijāČŮāŔ  
WebFilter ICAPčĹĹāAŋēĹēĹijāČčāČijāČŮāŔāČŠčŔĚēğčāAŮāAčāČČāČĹ'āAĚāAŸāČAāAŋāĀAāČčāČijāČŮāŔāAŮāĹ'ŃāĹ'āAŋ  
ldap:/// āČŠāĹāāĹāĀBase64āČĹāČšāČšāČijāČĜāČčāČšāČŕ āČŠāAŽāČŃāĤĚēēAāAŊāAČāČĹāAĹāAŽāČ

1. **Local Traffic >> iRules** āAŋāAčāĀACreate āČIJāČĹāČšāČŠæĹijāAŮāAĹāAŽāČČāzzæĎŔāAŮāŔāĹ'ā  
āČŠāĚēāĹZāAŮāAčāĀADefinition āAŋāzēāŸŃāČŤāČšāČŮāČŋiRuleāČŠāĚēāĹZāAŮāĀAFinished  
āČIJāČĹāČšāČŠæĹijāAŮāAĹāAŽāČČijĹāzēāŸŃāAŮiRuleāAřāAČāAŔāAĹāAğāČČāČŤāČšāČŮāČŋāĹāĹāČĹāAĹāAŽāČČāŔŇ  
āĹŊijŖijĹHTTPāČĹāČřāČĹāČzāČĹāČŸāČČāČĀāŋēĹēĹijāČĚāāšāČŠæŇĤāĚēāAŽāČŃāAŸāČAāAŮiRuleāČŤāČšāČŮāČŋ

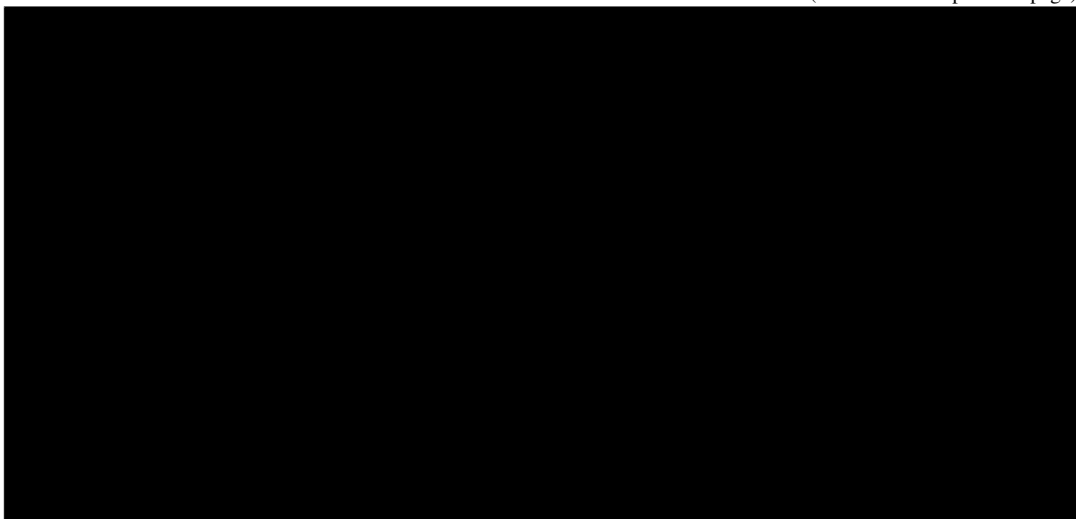


āĹŊijŖijĹICAPāČĹāČřāČĹāČzāČĹāČŸāČČāČĀāŋēĹēĹijāČĚāāšāČŠæŇĤāĚēāAŽāČŃāAŸāČAāAŮiRuleāČŤāČšāČŮāČŋ



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(continued from previous page)



iijŠāAđ'çŽōāAōiRuleāAñāAŁāAĎāAęāĀAĪCAP-  
 XāČŸāĆĆāČĀāArHTTPāČŸāĆĆāČĀāŸLāAŃāČL'aArāL'ŁéŽd'aAŤāČŃāAŁāAŽāAŃāĀAĪCAPāČŸāĆĆāČĀāAñāōNāČL  
 WebFilterāAōāČŸāĆĆāČĀāČšāČšāČLāČ■āCijaČŃāAñāAęāL'ŁéŽd'aAŮāAęāŸNāAŤāAĎāĀČ

āAŁāAšāĀAęāŌęçŮŽāČEāČZāČLāČŠāAŤāČŃāČŃéŽŽāAñāArāĀAđ'L'æŤræČĚāāśāČŠāČ■āČrāĠZāLZāAŁāČŃāAŁāAŤ'ā

āŁNīijŠīijL'ēl■ēlījāČęāČijaČŮāR■āČŠççžēl■āAŽāČŃāČĠāČŤāČČāČŤ  
 log local0. āĀIJUsername: [ACCESS::session data get session.logon.last.username]āĀĪ

āŁNīijŠīijL'aČlāČšāČšāČijaČL'aAŤāČŃāAšāĀEēāōZāČŠççžēl■āAŽāČŃāČĠāČŤāČČāČŤ  
 log local0. āĀIJEncoded username: b64encode ldap:///{}ACCESS::session data get  
 session.logon.last.username]]āĀĪ

āŁNīijŠīijL'aČŸāČĆāČĀāČijaEēāōZāČŠççžēl■āAŽāČŃāČĠāČŤāČČāČŤ  
 foreach attr āĀIJ[HTTP::header names]āĀĪ {  
     log local0. āĀIJ\$attr : [HTTP::header value \$attr]āĀĪ  
 }

## 1.1.10 SSLO Guided ConfigurationāAñāČLāČŃSSLOāAōēl■āōŽ

1. **SSL Orchestrator >> Configuration** āČŠēAŸæLđāAŮāAŁāAŽāĀČDNS āAĪ NTP āAĪ Route āAŃ Configure  
 āAĪāAŁāAęāAęāAĎāČŃāAōāČŠççžēl■āAŮāĀAŃext āČĪJāČĚāČšāČšāElijāAŮāAŁāAŽāĀČ



3. äzzæĐŘãAőãR■ãL■      aĆŠeł■ãoŽãAŮãÄAãRşäÿŁãAő      *Show*      *Advanced*      *Setting*  
aĆŠãĆřãČřãČČãĆřãAŮãÄA **Client-side SSL**    aAñãAęãÄAãŁl'çTíãAŮãAşãAĐ **TLSãAőãČŘãČijaČÿãČğãČş**  
aĆŠéAÿæŁđãAŮãA;ãAŽãĂĆ

4. **CA Certificate KeyChain** āAňāAęāĀAęŮćāAňāČd' āČšāČĹāČijāČĹäŸĹāA£āAőCAāČŤāČąāČd' āČňāČŠéAŸæŁďāAŮāAę  
*Done* āČŠæŁijāAŮāAĹāAŽāĀČ

5. **Server-side SSL** āČĆāŘŇæğŸāAňāĹĹ'çŤĹāAŮāAšāAĎ **TLS**āČŘāČijāČŸāČğāČş  
āČŠéAŸæŁďāAŮāAĹāAŽāĀČ

6. æIJšéZŘāĹĜāČŇāAőēĹijæŸŎæZŸāČĎēĜĹāŮşç;şāŘ■ēĹijæŸŎæZŸāAňāŕĹāAŮāAęāAőāŤā;IJāČĆçćžēĹ■āAŮāĀA*SaveijENext*  
āČŠæŁijāAŮāAĹāAŽāĀČ

7. *Add Service* ăĈŠăĹijăĀŮăĀĵăĀŽăĀĈ

8. **Generic ICAP Service** ăĈŠéĀÿăĹđăĀŮăĀĀAdd ăĈIJăĈĚăĈşăĈĈăĈŠăĹijăĀŮăĀĵăĀŽăĀĈ

9. äzzæĐŘãAőãŘ■ãĹ■ aČŠěl■ãőŽãAŮãĂAICAP Devices ãAň InterSafe WebFilterãAőIPãĆcãČĹ'ãČňãČz  
ãAÍ aČĹãČijãČĹçTĹãRũ aČŠěl■ãőŽãAŮãĂADone aČŠæĹijãAŮãAĹãAŽãĂĆ

10. **Preview Max Length** āAń 0 āĆŠāĚēāŁZāAŮāĀĀICAP Policy āAńāĚŮćāAńā;IJāĹŔāÿĹāA£āAŮ **Local Traffic Policy** āČŠēAÿāŁđāAŮāĀĀSave āČŠāĹijāAŮāAĹāĀZāĀČSaveiiĲENext āČŠāĹijāAŮāAĹāĀZāĀČ

11. **Service Chain List** āAğ Add āČŠāĹijāAŮāAĹāĀZāĀČ

12. **āzzāĎŔāAŮāŔ■āL■** āČŠēĹ■āŮZāAŮāĀĀāĚĹĹÍŃā;IJāĹŔāAŮāA\$āČĹāČijāČŠāČzāČŠāŔ\$āAńçğzāŃŤāAŤāAŻāĀĀSave āČIJāČ£āČ\$āČŠāĹijāAŮāAĹāĀZāĀČ(InterSafe WebFilterāAŮāČĹāČijāČŠāČzāAŃāÿĹāAńāAŔāČŃāČĹāA£āAńāAŮāAĹāĀZāĀČ



13. **Service Chain** ãAŮNãAğãA■ãAşãAŞãAĹãČŠççžè■ãAŮãĂA*SaveiijENext* ãČIĹãČĤãČşãČŠæĹijãAŮãAĹãAŽãĂČ

14. All TrafficăAő aČŽăČşăČđăČijăČr' aĆŠăĆrăČĹăČČăĆrăAŮăAĹăAŽăĂĆ

15. aĚĹçĹŃăĬJæĹŔăAŮăAş **Service Chain** aĆŠéAÿæĹđăAŮăĂAOK aČIJăĆĚăČşăĆŠæĹijăAŮăAĹăAŽăĂĆ

16. *SaveiijENext* āČIJāČĚāČšāČŠæLijāAŮāAĹāAŽāĀČ

17. **Proxy Server Settings** āAňāČřāČĹ'āČd'āČćāČšāČĹāAŇāČĹ'āČŮāČāČāČāČŮāAĹāAŮāAęāČćāČřāČzāČzāAŤāAŽāČŇIPāČćāČĹ'  
**Access Profile** āČŠéAÿæŁđāAŮāĀĀ**Ingress Network** āAĹāAŮāAęāĀĀāČřāČĹ'āČd'āČćāČšāČĹāAŇāČĹ'āČćāČřāČzāČzāŘřèČĭā  
**VLAN** āČŠéAÿæŁđāAŮāĀĀ*SaveiijENext* āČIJāČĚāČšāČŠæLijāAŮāAĹāAŽāĀČ

18. æIJñāČĚāČzāČĹæğNæĹŕāAğāAřāĀManage SNAT Settings āAğ Auto  
MapāĀGateways āAğ Default Route āĆŠéAÿæĹđāAŮāĀSaveiijENext  
āČIJāĆĚāČšāČŠæLijāAŮāAĹāAŽāĀĆ(èí■āōŽāAřæd' IJèÍijçŠřāČČāAňāŕĹāĆŔāAŽāAęāAŔāAāāAŤāAĐāĀĆ)

19. *SaveiijENext* āČIJāĆĚāČšāČŠæLijāAŮāAĹāAŽāĀĆ

20. ăŁĚĕAăAńăŁIăYăAęăĂAĕĹ■ăőŽăEĚăőžăĈŚĕNçŽt'ăAŮăĂA Deploy ăĈIăĆĚăĈşăĈŚăLijăAŮăAĭăAŽăĂĆ

21. *OK* aČIJäČŁäČšäČŠæLijäAŮäÄDeployäAñæLŘäLšäAŽäČNäAĺäžěäÿNäAőäČLäAĚäAłçüSèL'säAő **DE-  
PLOYED** äČďäČijäČřäAŇěäĺçd'žäAŤäČNäAĹäAŽäÄČ

22. äŘšäÿLäAő **System Settings** äČćäČd'aČšäČšäČŠéAÿæLďäAŮäAĹäAŽäÄČ

23. SSLOäAŇExplicit ProxyäAĺäAŮäAĚäL'çŤĺäAŽäČNä **DNS** äČŠěä■äőŽäAŮäÄADeploy  
äČŠæLijäAŮäAĹäAŽäÄČ

24. InterSafe WebFilterãĀĹéĂčæŘžãĀŽãČŇãČťãČijãČŠãČzãĀnéŮćãĀŮãĀęãĀřel■ēĹijãČŸãČČãČĀãČŠæŇĤãĒēãĀŽãČŇãĀšãČĀãĀēĤãČďãČijãČřãČšãĤŮãĀŮãĀĹãĀŽãĀČ

25. æŮćāĀñā;IJæĹŔæŷĹāAŁāAŮ iRule āČŠèŁ;āŁāāAŮāAŁāAŻāĀČLocal Traffic >> Virtual Servers>> āĀñāAŁāAĐāAęāĀAssloS\_XXXX(āzzāĎŔ)-t-4 āAĹāAĐāAĒāŔāĀçğŕāAŮVirtual ServerāČŠéAŷæŁđāAŮāĀResources āČŁāČŮāČŠéAŷæŁđāĀHTTPāČĹāČŕāČĹāČzāČĹāČŸāČČāČĀāĀñēĹēĹijæČĒāāśāČŠæĹ iRule āČŠéAŷæŁđāAŮāĀFinished āČŠæĹijāAŮāAŁāAŻāĀČ

26. ICAPāČĹāČŕāČĹāČzāČĹāČŸāČČāČĀāĀñāŁāāAĹāČŇāAŖāČAāAŮ iRule āČŠèŁ;āŁāāAŮāAŁāAŻāĀČLocal Traffic >> Virtual Servers āĀñāAŁāAĐāAęāĀAssloS\_XXXX(āzzāĎŔ)-req āAĹāAĐāAĒāŔāĀçğŕāAŮVirtual ServerāČŠéAŷæŁđāAŮāĀResources āČŁāČŮāČŠéAŷæŁđāĀICAPāČĹāČŕāČĹāČzāČĹāČŸāČČāČĀāĀñēĹēĹijæČĒāāśāČŠæĹ iRule āČŠéAŷæŁđāAŮāĀFinished āČŠæĹijāAŮāAŁāAŻāĀČ

**Note:**

- āČzāČāČČāČĹāČĒāČČāČČāČŕāČd'āČzāĀNICAPāČĹāČijāČČāČzāĀHTTPāČĹāČijāČČāČzāAŮāāŕ'āŔĹāĀSSLāĹ'āŔŮāAŮāA



### 1.1.11 InterSafe WebFilter āĀōēĹāōŽ

āĀĀ InterSafe WebFilterāĀōāČd'āČšāČzāČĹāČĵāČňāĀřčřČāžĚāĀŮāĀēāĀĎāČŇāČČāĀōāĀĹāĀŮāĀ;āĀŽāĀČ  
āĀĀ āĀ;āĀšāĀāāĀšāĀšāĀģāĀřāŷĀēČĹāĀōēĹēĹĵēĀčæŘzāĀnéŮčāČŘāČŇēĹāōŽæŮzæšřāĀōçř'zāzŇāĀōāĀēāĀĹāĀČĹāĀ;āĀŽā

#### IPēĹēĹĵāĀōēĹāōŽ

1. [āČřāČĵāČŘçōāČĹē]-[ēĹēĹĵēĹāōŽ] āČšāČřāČĹāČčāČřāĀŮāĀ;āĀŽāĀČ [ēĹēĹĵēĹāōŽ]  
āĀŇēāĹčd'žāĀřāČŇāĀ;āĀŽāĀČ

2. [āČēāČĵāČŮēĹēĹĵ]-[æĹĴĹ'āĹž] āČĀāČģāČČāČřāČĴāČČāČřāČžāČš āČĹāČš āĀňāĀŮāĀ [āĹĹāŷ]  
āČšāČřāČĹāČčāČřāĀŮāĀ;āĀŽāĀČ

#### LDAPāČřāČĵāČŘāĀōçŽzéŇšāĀĹçōāČĹē

1. [āČřāČĵāČŘçōāČĹē]-[LDAPāČřāČĵāČŘēĹāōŽ] āČšāČřāČĹāČčāČřāĀŮāĀ;āĀŽāĀČ

2. [LDAPāĆťāČijāČŘēí■āōŽ] āČŁāČŮāAō [āĆťāČijāČŘāČŠčŽzéŇš] āČŠāČřāČlāČČāČřāAŮāAŁāAŽāĀĆ

3. LDAPāĆťāČijāČŘāAōāČĚāāśāČŠāĚēāLZāAŮāĀA [āČlā■Ů] āČIJāČŁāČšāČŠāČřāČlāČČāČřāAŮāAŁāAŽāĀĆ

## SSLOāAíāAōēí■ēlíjēĀčæŘžēí■āōŽ

āĀžēí■āōŽāČťāČāāČd'āČňāČŠčŽt' æŌēçŮíēZEāAŽāČŇāēĚēAāAŇāAČāČŁāAŁāAŽāĀĆ  
 āĀĀçōāçŘĚçŤžēíēāAōçťČāžĚāAĀWebFilterāČťāČijāČšāČžāČŠāAĪæ■ēāAŮāAēēāŇāAčāAēāAŘāAāāAťāAĎāĀĆ

1. <āČd'āČšāČžāČLāČijāČňāČĚāČčāČňāČřāČLāČt>/conf/proxy.inf āČťāČāāČd'āČňāČŠāČĚāČ■āČžāČLāČlāČĚāČčāČ

2. [CONTROL\_CFG] āČzāČřāČŮāČġāČšāČň āĀNICAP\_AUTHENTICATION=TRUEāĀ āČŠēŁ;āŁāāČŮāČĹāČŽāČ

3. čŏaçŘEçŤzéÍčāČŇāČĹ [āČťāČijāČŘčŏaçŘE]-[èēēlijèēāŏŽ] āČŠéŮŇāČāĀ  
[LDAPéĀčæŘžāČŠēāŇāĀE] āČŠāČřāČĹāČČāČřāČŮāĀē [āŁĹāŸ] āČĹāČčāČšāČČřāČĹāČČāČřāČŮāČĹāČŽāČ

4. čŏaçŘEçŤzéÍčāČŇāČĹ [āČťāČijāČŘčŏaçŘE]-[LDAPāČťāČijāČŘēēāŏŽ] āČŠéŮŇāČāĀICAPāČřāČřāČd'āČčāČšāČĹ

5. [LDAPāČčēāČijāČŮāČŇāēIJšāĀŸ] āČŠāČřāČĹāČČāČřāČŮāĀēēēēlijāČŽāČŇāČčāČňāČčēāČšāČĹāČŏēĀŸāēŁđāĀāČĹāČ

### 1.1.12 āČřāČřāČd'āČčāČšāČĹāČŇāČĹ'āČŏæŌččŮŽāČĚāČzāČĹ

1. āČřāČřāČd'āČčāČšāČĹāČŇSSLOāČŏ CAēlijæŸŌæŽŸ āČŠāČd'āČšāČzāČĹāČijāČňāČŮāČĹāČŽāČ

2. āČšāČđāČšāČĹ'āČřāČd'āČšāČġččžēēāČŽāČŇāāt'āŘĹāČřāĀāžēäŸŇāČŠāĹ'čŤĹāČŮāČĹāČŽāČ



3. āČŮāČřāČčēāČŮāČġččžēēēāČŽāČŇāāt'āŘĹāČřāĀāčŮāČāČāČŮēēēāŏŽāČŇSSLOāČŠāŁāāĹāĀēāČŇāČĹ'WEBæŌččŮŽāČ

4. WEBéĀŽāŁāāČŇāēĹŔāŁšāČŽāČŇāČŇččžēēēāČŮāČĹāČŽāČčāČťāČijāČŘēlijæŸŌæŽŸāČŇSSLOāČŏCAēlijæŸŌæŽŸāČġ  
æŽŸāĀæŘžāĹāČĹ'āČŇāĀēāĹđāČŇ āĀšāĹāČšččžēēēāČŮāČĹāČŽāČ

5. āČŮāČr'āČČāČřāČřāČzāČLāAőāőZāĚLāAŷāAőēĀŽāāāAŇ  
āAŤāČŇāČŇāAšāAÍāČŠćčžèl■āAŮāAčāAŽāĀČ

āČŮāČ■āČČāČř

6. SSLāčl'āRŭéŽd'ād'ŮāČřāČd'āČLāAőēĀŽāāāAŇāLRāLšāAŽāČŇāAŇćčžèl■āAŮāAčāAŽāĀČāČřāČijāČŘèlijæYŎæŽŷāAŇSS  
æŽŷāA■æRŽāAĹāČL'āČŇāAęāĀĎāAĹāĀĎ āAšāAĹāČŠćčžèl■āAŮāAčāAŽāĀČ

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**Note:**

- āČŮāČ■āČČāČrāČŽāČijāČyāAōāzŮāAňāČČāĀAäyĀæŽČēģčēŽd'īijLPasswardāAČāČĹāČžāAġāŮīijL'āĀAēēRāĹŮēģčēŽd'čŮí
- ēēRāĹŮčŮžēíčēāčd'žāAģē■ēāSĹāAňēāčd'žāAŮāČŇāČŇāāt'āRĹāĀInterSafe WebFilter  
āAōēīijæŮŌæŽyēē■āyČāČSāAĹēāŮāAĐēGt'āAŮāAġāAŽ

### 1.1.13 āAġāAōāzŮ

#### āRĐčĹóāČ■āČř

#### 1. āČēāČzāČĹāAōēŽŽāAňāAřāĀAžēāyŇāAōSSLOāAňāAĹāAŠāČŇāČ■āČřāČSāRČčĚģāAŮāAēāyŇāAŮāAĐāČ

- SSLOāĚĹēĹāČ■āČřāČĐiRuleāAģlocal0āAģæŇGāōŽāAŮāAŠāČ■āČř /var/log/ltn
- APMīijĹēĹēīijīijL'āAōāČ■āČř /var/log/apm
- **SSL Guided ConfigurationīijLiAppLX/RESTīijL'āAňēŮēāČRāČŇāČ■āČř**  
/var/log/restnoded/restnoded.log | /var/log/restjava.0.log
- āAġāAōāzŮāĀASSLOāAňēŮēāAŽāČŇāČĹāČřāČŮāČňāČŮāČēāČijāČēāČčāČšāČřāAřāžēāyŇāAōAskF5ēĹŮāz  
K26520133: Troubleshooting SSL Orchestrator(SSLO) <https://support.f5.com/csp/article/K26520133>
- SSLāRřēēŮāŇŮāČRāČd'āČSāČžēĹ■āōŽāČSēāŇāAčāAēāAĐāČŇāČŮāČd'āČĹāAģāAřāĀInterSafeāAōēēRāĹŮ  
ēēRāĹŮčŮžēíčēāČSēāčd'žāAŽāČŇāēēēAāAňāAČāČŇāČŮāČd'āČĹāAňāAđ'āAĐāAēāAřāĀASSLOāyĹāAģāAōā
- æIJňāČňāČd'āČĹ'āAģāAřāĀWebāAģāĹřčŮīāAŽāČŇāČGāČŮāČřāČňāČĹāAōāČīāČijāČĹčŮīāRŮāAňēŮēāA  
ēĹŮēijL'ād'ŮāAōāČīāČijāČĹāAňāřčāAŮāAēāĀAāČīāČijāČĹēēRāĹŮæĹ'šēČjāČSāĹřčŮīāAŽāČŇāāt'āRĹāĀAāČňā  
āēēēAāAġāČīāČijāČĹāAňāřčāAŮāAēēēĹjāĹāāAŮāAēāAŘāAāāAŮāAĐāČ
- InterSafeēĹēīijæĹ'šēČjāAňāAđ'āAĐāAēāAřāĀAžēāyŇæĹ'šēČjāAĹēāČæRžāRřēČjāAģāAČāČŇāAŠāAĹāČSčžē  
IPāČčāČĹāČňāČžēĹēīij | BasicēĹēīij(āČ■āČijāČňāČŇ) | BasicēĹēīij(LDAPēĀčæRž)