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**F5CS EAP**  
**ãĆzãČČãČĹãĆćãČČãČŮãĆňãĆd'ãČĹ'**

**Feb 15, 2021**



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çZóæñą:

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<b>1</b>	<b>ãAřãAŸãCAãAñ</b>	<b>3</b>
<b>2</b>	<b>ãCšãCšãCEãCšãCĎ</b>	<b>5</b>
2.1	F5CS EAPãAóãCzãCĎãCĹãCcaĎCãCŮ . . . . .	5



æĪĶçġČæŽt'æŮřæŮě: 2021āžt'2æĪĹ15æŮě



# CHAPTER 1

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## ãAřãAÿãÇAãAñ

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ãAŞãAđãCŽãCijaCýãAğãAřãAAãAŞãCÑãCL'ãAđãCĤãCĉãCúãCĉãCñãAĤãCL'ãC■ãCĕãCqãCşãCLãAđëçIJeřşãAÍãAĤãCNèşGæÚZ  
F5ãAđãCĤãCĉãCúãCĉãCñãAĤãCL'ãC■ãCĕãCqãCşãCLãAřãAŞãAqãCL'ãAñãAĤãAŪãAĐãA;ãAŽãĂC

- About the F5 Essential App Protect Service
- F5 DevCentraliiijLF5ãCşãCŞãCĕãCNãCĚãCĉãCĤãCd'ãCLiiijL
- AskF5iiijLF5ãÉãĚãĤãCđãCNãCĕãCĉãCñãAAãCŘãCřãCĚãããAĤãAĤ'iiijL











3. aAŞçDæÚZæđãĹ' çTĹãAõãČĚãČď'ãČŮãČŠéAÿæŁđãAŮãĀAæňqãAõãČzãČĚãČčãČŮ: aĀē  
ãČŠãČřãČĹãČčãČřãAŮãAĵãAŽãĀČ

4. èĜlãŇŤãĹ'sãĹĹã;ŠãAęãČSãČŮãČĹãČČãČřIP ãČŠ æIĴĹ'ãĹz ãAňãAŮãĂAęňqãAőãČzãČEãČČãČŮ: áĀę  
ãČSãČřãČĹãČČãČřãAŮãAĴãAŽãĂČijĹãAŞãAŞãAğãAřãČSãČŮãČĹãČČãČřIPãĹ'sã; Şãzãđ' ŮãAřãČĜãČŤãČĹ'ãČňãČĹëĹ■ãóŽã

5. ãČzãČĹãČňãČijaČyãAęë£;ãĹããAřãČĜãČŤãČĹ'ãČňãČĹëĹ■ãóŽãAőãAĴãAĴãĂA ãňqãAőãČzãČEãČČãČŮ:  
áĀę ãČSãČřãČĹãČČãČřãAŮãAĴãAŽãĂČ

6. āĹĚāAŇāČĹāČĎāAŽāAĎāČĚāČřāŘ■āČŠāzŸāAŠāĀāČŠāČřāČĹāČČāČřāAŮāAĵāAŽāĀČ

*aeňqāAōāČzāČĚāČČāČŮ:*

*āĀē*

7. SSHiijĹçõaçŘĚIPāAŇāČĹ'āAōāĀōčŮŽāAōāAēiijL'āĀAHTTPāAĹHTTSPiijĹāĚĹāČ;āČijaČzāAŇāČĹ'āAōāĀōčŮŽāČŠēlsāŘriijĹāČŠāČřāČĹāČČāČřāAŮāAĵāAŽāĀČiijLEAPāAōāČzāČČāČĹāČćāČČāČŮā;ŇāĀAēIJñāČňāČijaČňāAōāĒāōzāAřEAPāAŇāČĹ

8. ěĹ■āōŽāĒĚāōzāAōçczèĹ■āČŠāAŮāĀAēĵuāNŤ āČŠāČřāČĹāČČāČřāAŮāAĵāAŽāĀČ



11. SSHaCraCraCd'aCcaCsaCLaCfaCUaCSéAyaLdaAUaASSHaCsaCdaCsaCL'aCSsaCsaCTaCijaAUaA; aAZaACiijLaeUraAUaA

12. SSHaCraCraCd'aCcaCsaCLaC; aCTaCLaCeaCgaCcaAnSSHaCsaCdaCsaCL'aCSsaCsaCTaCijaAUaAASSHaEOeçuZaAUaAãZ



13. yumāČSāČČāČSāČijaČyāČSāČcāČČāČŮāČGāČijaČLāŮāA;āAŽāČČComplete!āAĽāĽāčd'žāAŤāČŇāČŇāAřāČd'āČSāČzāČLāČāČd'āČSāČzāČČāČSāČzāČyLāAĝ Amazon Linux āČd'āČSāČzāČČāČSāČzāČ;āČŤāČLāČĕāČgāČcāČSāČZr'æŮřāAŽāČŇ ĩijL



14. EPELāČĽāČĽāČyāČLāČĽāČSāČd'āČSāČzāČLāČĽāČĽāČŇāAŮāA;āAŽāČČComplete!āAĽāĽāčd'žāAŤāČŇāČŇāAřāČd'āČSāČzāČLāČČ CentOSāĀARHELāĀAāA;āAŠāAr Amazon Linux āČSāČōšēāŇāAŮāAĕāAĎāČŇ Amazon EC2 āČd'āČSāČzāČČāČSāČzāAŏ EPEL āČĽāČĽāČyāČLāČĽāČSāČæIJL'āL'zāAňāAŽāČŇāAňāAřāAĽ'āAĽāAŽāČŇāAřāČLāAĎāAĝāAŽāA ĩijL



15. āČd'āČSāČzāČLāČĽāČĽāČŇāAŮāAŠEPELāČĽāČĽāČyāČLāČĽāAŇāČLWEBāČĽāČĽāČŇĽĽiĽLOSSĽLĽNGINXĽiĽāČSāČd'āČSāČzāČ Extras library (Amazon Linux 2) ĩijL



Note:

āAŠāAŠāAĝāAřāĀAEAPāAŏāŇŤā;IJāČŠĽāĕYŠĽZĎāAňĽāčēĽāāAŽāČŇāAŠāČAāAňāĀAOSSĽL'ĽāAŏNGINXāČS

- NGINX PlusāČŮāČāČāČrāČLāČZāČijaČy
- āČŮāČāČāČĽĽiĽNGINXāAĽāAřĽĽ NGINXāAĽĽNGINX PlusāČSāČzāČzāČŤĕĝĽēĽāAŮāA;āAŽ

16. āČd'āČSāČzāČLāČĽāČĽāČŇāAŮāAŠNGINXāČSāČfŌāZĎēĽāŇŤāAŽāČŇāČLāAĽāAňēĽāāŏŽāAňāAŮāĀANGINXāČSēĽāŇŤāAŮā



17. NGINXāAŇēĽāŇŤāAŤāČŇāAĕāAĎāČŇāAŠāAĽāČSĽēĽāāAŮāA;āAŽāČ Active: active (running) āAĽāĽāčd'žāAŤāČŇāČŇāAřēĽāŇŤāAŮāAĕāAĎāA;āAŽāČ



2.1.4 DNSāAÿāAŏāČňāČSāČijaČL'āAŏĽZēŇš



4. cZzeNsaaUaaA\$FQDNaaAaaCUaaCl'aaCaaCuqTNaTsaaAghhttpaaCaaCraCzaCzaUaaAAaaCaaCzaCLWEBaaCZaaCijaCyaAaaNaaalcd'zaA

### 2.1.5 iijLaCliaCUaCuaaCgaCsiijL'LetaaZs encryptaaCSaLl'cTlaAUaaAaaCtaCijaCRelijaeYoeZyaaAoa

LetaaZt EncryptaaCSaLl'cTlaAUaaAaaCtaCijaCRelijaeYoeZyaaCSaRUaa; UaaAUaaAaa; aaZaaACaaAlaaCLaaCaaAlaaZhttp/80aaAaWEBaaCtaC

1. Certbot aaINGINXaaCUaaCl'aaCraCd'aaCsaCSaaCd'aaCsaCzaCLaaCijaCnaaaUaaAaa; aaZaaACComplete!aaAlaaalcd'zaAaaCnaCnaAaaCaaCd' Linux 2aaAgaAaaEaaiajRaaAaaAaaCtaCiaCijaCLaaAaaCnaAaaAaaDaaAaaAaaDaaCLaaAaaAaaAaaZaaAaaNaaAAaa■aaayaaAaaNTaa; IJaaAaaAaaZaa Certificate Automation: Amazon Linux 2aaAgaAaLetaaZs EncryptaaAaaCertbotaaAaa; fcaTl'aaAA User Guide iijL



2. aCd'aaCsaCzaCLaaCijaCnaayLaAaaAaaCertbotaaCSaLl'cTlaAUaaAaaCtaCijaCRelijaeYoeZyaaCSaRUaa; UaaAUaaAaa; aaZaaAC



3. aCd'aCsaCzaCLaCl'aCraCuacgaCsaAnaSsaDaaAE-mail address aAY aAN  
aAiaEeaLzaAUaA; aAZaACCongratulations! aAieaId'zaAaCNaCNaAraLRaLsaAgaaZaAC/etc/nginx/nginx.conf aCSaUaNa

4. aCUaCl'aCaCuaghttps://<WEBaCjaCijaCRaAofQDNijdaAnaCcaCraCzaCzaAUaAaCjaCReIijaeYoZyaAneaId'zaA

5. opensslaCsaCdaCsaCL'aCSaL'cTiaAUaAAaCUaCP'aCd'aCZaCijaCLaCnaCijaCS PKCS#8  
aCTaC'aCijaCdaCCaCLaAaNaCL PKCS#1 aCTaC'aCijaCdaCCaCLaAaNaL'aRZaAUaAAaSCP'aCsaCdaCsaCL'aAaAa'aAg'aC  
valid PKCS#1, ASN.1 DER form - while adding new certificate iijL'



## 2.1.6 EAPaAoaCzaCCaCLaCcaCCaCU

1. F5 CloudServiceaAoaCcaCnaCeaCsaCLaCSa;IjaLRaAUaAaZaAC F5CSaAoaCtaCd'aCL  
aAaæOeçüZaAUaAAaSign up aCSaCraCraCraCUaAaZaAC



5. EAPãAğãČĽãČčãČŮçTzėIcãAÑeãłçď'žãAŤãCÑãA;ãAZãĂCãČĽãČčãČŮçTzėIcãAñãAřãAA24æZĆéŮŞãzããEĚãAğãÿŮçŤNãA  
mapãAÑeãłçď'žãAŤãCÑãAęãAĐãA;ãAZãĂC*Start protecting your app*ãČŠãČřãČĽãČčãČřãAŮãA;ãAZãĂC

6. ř;èsqWEBãČŤãČijãČŘãAğFQDNãČŠãĚããLZãAŮãAA *Save*ijE*Continue*ãČŠãČřãČĽãČčãČřãAŮãA;ãAZãĂC

7. EAPãAňŇár;èšããAóWEBãČřãČijãČřãAňãČãČřãČzãČzãAŮãĀãAĹãAóæČĚããšãAňëãĹčd'zãAŤãČŇãČŇãAóãAğãEĚãóãČŠç  
SaveijEContinue ãČŠãČřãČĹãČčãČřãAŮãAĹããAŽãĀČ

8. ãĚňéŮňãAŽãČŇWebãČřãČijãČřãAóãČŮãČ■ãČĹãČšãČňãAĹãČĹãČijãČĹçŤãRũãČŠéAÿæŁđãAŮãAĹããAŽãĀČhttpsãČŠéAÿæŁ



9. aCtaCijaCRelijæYÖæZyaAíãCÛãCÍ'ãCd'ãCZãCijaCLãCãCijaAAãCAãCgãCijaCşelijæYÖæZyaCŞçZzeÑsãAÛãAA*SaveijECo*  
ãCŞãCraCtaCCãCraAÛãA;ãAZããCijLã£EãAZHTTPSãAããCtaCãCd'ãCnaCraCLãAÛãAşãADããt'ãRLãAraAAãCtaCãCd'ã

10. aEããóããCŞçãzããAÛãAA*SaveijEContinue*ãCŞãCraCtaCCãCraAÛãA;ãAZããC

11. CNAMEãAÑèĜhãNŤãAğæL'ŤãAĐãĜzãAŤãCŇãCŇãAğõãAğãĂãAãIãAğõãEãõzãCŠãCšãČŤãČijãAŮãA¿ãAŽãĂČ

12. DNSãČŤãČijãČŘãAğõé■ãõŽãAñæLzãČĹijLãžëäyNãAğçŤzélãAřRoute53ijL'ãĂãAæŮcã■ãYãAğAãČňãCšãČijãČĹ'ãČŠCNAMEã



15. EAPãČŠãČĜãČŮãČ■ãČd'ãAŮãAęãAĎãČNéŮŠãAňãĀAWebãČťãČijaČŘiijĹãAŠãAŠãAğãAřEC2ãČd'ãČšãČzãČ£ãČšãČziiĹ'ãAãAŠãAqãČĹ'ãAňãAťãAŮãAĎãA;ãAŽãĀČæIJňãČĜãČćçŠřãćČãAğãAřãĀAHTTPãAĹĹHTTPSãAŇãČĹ'AlãČćãČřãČzãČzãAĹãA

16. EAPãAõãČGãČŮãČ■ãČd'ãAŇçĭČãžEãAŽãČŇãAĴãĂAĚEAPãČGãČŮãČ■ãČd'ãÿĂeęçŤzėíćãAňãAĽãAĎãAęãĂAActive  
ãAĴeãĴçd'žãAŤãČŇãAĴãAŽããČ

17. ãČĽãČčãČŮçŤzėíćãAõ **PROTECT APPLICATION** aČŠãČrãČĽãČčãČrãAŽãČŇãAĴãĂAĚWAFãAõeĴ■ãõŽçŤzėíćãAňeãĴçd'žãAŤãČŇãAĴãAŽããAõãĂAãAĴ'ãAõãČĽãAĚãAĴeĴ■ãõŽãAňãAČãČ

18. äzëÿŇãAõãČĽãAĚãAĴWAFãAõeĴ■ãõŽçŤzėíćãAňeãĴçd'žãAŤãČŇãAĴãAŽããAõãĂAãAĴ'ãAõãČĽãAĚãAĴeĴ■ãõŽãAňãAČãČ

### 2.1.7 WAFãAõãŇã;IjçczèlãČĚãČzãČĹ

1. aČřãČĹ'ãČd'ãČćãČšãČĹãČŮãČĹ'ãČęãČúãAŇãČĹ'ãĀãWebãČťãČiãČřãAŇãČĚããããRŮã;ŮçZõçŽDiiĹhttps://xxxxxx/nginx.configiijĹ'ãAğãČćãČřãČzãČzãAŮãA;ãAŽãĀČ

2. EAPãAõãČĹãČČãČŮçTžéíããAŇãČĹ'ãĀãVIEW EVENTSãČŠãČřãČĹãČčãČřãAŽãČŇãAĹãĀãČťãČããČd'ãČňãAÿãAõãČd'ãããblockedãAĹãAĹãAčãAęãAĎãČŇãAšãAĹãAŇçczèlããAğãA;ãA;ãAŽãĀČ

3. aAĹãČŇãAđãČŇãAđãČ■ãČřãČŠãČřãČĹãČČãČřãAŽãČŇãAĹãžẽãÿŇãAđãČĹãAĚãAĹè'şçt'řãAŇãeĹçd'žãAŤãČŇãAĹãAŽãĂČ

4. **View full request** aČŠãČřãČĹãČČãČřãAŽãČŇãAĹãžt'ãAňè'şçt'řãAĹãČ■ãČřãAŇãeĹçd'žãAŤãČŇãAĹãAŽãĂČ

5. EAPaA6WAFelaaZcTzeIcaAneLzaCLaaAA**Monitoring** aCcaCijaCL'aAaNaCL'  
aCcaCijaCL'aAaNacl'aeZt'aAUaaAAUpdate aCSaCraCraCcaCraAUaaAaZaaAC

**Blocking**



6. aE■ãžëãČřãČĹ'ãČď'ãČćãČšãČĹãČŮãČĹ'ãČęãČŮãČňãČĹ'æČĚããšãŔŮã; ŮçŽóçŽďãAğãČćãČřãČzãČzãAŽãČňãAĹãĂAãČŮãČ■ã

7. EAPãAğãČ■ãČřãČšçóžel■ãAŽãČňãAĹãĂA**Blocked**ãAĹãAĹãAčãAęãAďãČňãAšãAĹãAňçóžel■ãAğãA■ãA;ãAŽãĂČ

8. èl'şçt'řāAĴāČ■āČřāAŇçóžèl■āAğāA■āAĴ;āAŽāĂČ

9. æŽt'āAñèl'şçt'řāAĴāČ■āČřāAŇçóžèl■āAğāA■āAĴ;āAŽāĂČ

10. EAPãAřãČĽãČčãČŮçTžéÍãAňãAęãĂA**MONITOR APPLICTION**ãČŠãČřãČĽãČčãČřãAŽãČŇãAĽãĂAãžěäyŇãAřãČĽãAĽã

## 2.1.8 aČããČčãČčãČŮãČěæ'šèČ;iiĹLAWS CloudFrontiiĹ'ãAőèĹãóŽ

EAPãAřããAWSãAőCloudFrontãAĹéĂčæŘžãAňãRřèČ;ãAğãAŽãĂČãAĹ;ãAşãAĹãAőèĹãóŽãĂČCEAPãAőçőaçŘEçTžéÍcäyĹãAňãČĹ

1. **PROTECT APPLICATION**      ãAő      **Integrations**      ãČãČŮãAňãAęãĂAManage  
ãČšãČřãČĹãČčãČřãAŮãAĹãAŽãĂČ

2. **Enable Caching** aAnaCAaCgaCcaCraCSaEeaCNaA; aAZaAC

3. JapanAÑaRnaA; aCNaAeaAĐaCNaC■aCcaCcaCUaCcaC■aCsaCijaCuaCgaCsaCSéAÿæLđaAÚaAAUpdate  
aCSaCraCraCraAÚaA; aAZaACCloudFrontaAoaCgaCUaC■aCd' aAnaAraTraLEaAÑaAÑaCLaA; aAZaAC

4. CloudFrontaAÑaCgaCUaC■aCd'aAjaCNaCNaAÍaAAStatusaAÑ **Deployed** aAÍaAjaCLaAaAzaAC







**AWS ALBãAğšãè■úáĽæŤčãČšãAžãČNããr'ãŘĽ**

1. ALBãAğšWEBãČŤãČĵãČŘãAğšãè■úáĽæŤčãČšãAŮãAęãAĎãČNãČšãČĵãČzãAňãČCEAPãČšãAŮ'čŤĽãRřãČ;ãAğšãAžãČčZã

2. EAPãČGãČŮãČ■ãČď'ãĽNãĀãALBãAğšãZãZãéNšãAřãŘ■ãĽ■èğčæšãĽNãAğšãIPãČćãČĽ'ãČňãČzãAğšãZãZãéNšãAŤãČNãAęãAŮãAĽãã

**F5CS DNS Load BalancerãAğšãè■úáĽæŤčãČšãAžãČNããr'ãŘĽ**

1. EAPãAğšãžŮãAňãĀãF5CSãAğšãDNS Load BalancerãČŤãČĵãČšãČzããČšãAŤãĽĽ'čŤĽãČãAŘãAšãAĽãAğšãČčšãè■úáĽæŤčãAňã  
DNSĽBãAğšãDNSãŘ■ãČšãZãZãéNšãAžãČNãAšãAĽãAğšãČčæŘzãAňãRřãČ;ãAĽãAĽãČĽãAĽããAžãČ

