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# Configuring Smart Card Authentication to the BIG-IP Traffic Management User Interface (TMUI) using F5's Privileged User Access Solution

Updated 1 year ago Originally posted July 18, 2018 by <u>Steve Lyons 236154</u> • <u>F5</u> (/s/profile/0051T000008t5CoQAI)

Topics in this Article: <u>apm (/s/articles?tag=apm)</u>, <u>application delivery (/s/articles?tag=application delivery)</u>, <u>iruleslx (/s/articles?tag=iruleslx)</u>, <u>security (/s/articles?tag=security)</u>

As promised in my last article which discussed configuring the BIG-IP as an SSH Jump Server using smart card authentication, I wanted to continue the discussion of F5's privileged user access with additional use cases. The first follow on article is really dedicated to all those customers who ask, "how do I use a smart card to authenticate to the BIG-IP TMUI?" While yes, I did provide a guide on how to do this natively, I'm here to tell you I think this is a bit easier but don't take my word for it. Try them both!

To reduce duplicating content, I am going to begin with the final configuration deployed in the previous article which has been published at https://devcentral.f5.com/s/articles/configuring-the-big-ip-as-an-ssh-jump-server-using-smart-card-authentication-and-webssh-client-31586. If you have not completed that guide, please do so prior to continuing with the Traffic Management User Interface (TMUI). With that, let's begin.

#### **Prerequisites**

- LTM Licensed and Provisioned
- APM Licensed and Provisioned
- iRulesLX Provisioned
- 8Gb of Memory
- Completed the PUA deployment based on my previous guide.

https://devcentral.f5.com/s/articles/configuring-the-big-ip-as-an-ssh-jump-server-using-smart-cardauthentication-and-webssh-client-31586

## **Create a Virtual Server and BIG-IP Pool**

Now you may be asking yourself why would I need this? Well, if any of you have attempted this in the past you will notice you will receive an ACL error when trying to access the management IP directly from a portal access resource. Because of this, we will need to complete this step and point our portal access resource to the IP of our virtual server.

Navigate to Local Traffic >> Virtual Servers >> Click Create

| Lo | Local Traffic » Virtual Servers : Virtual Server List |           |                          |                 |            |           |             |              |          |           |                  |
|----|-------------------------------------------------------|-----------|--------------------------|-----------------|------------|-----------|-------------|--------------|----------|-----------|------------------|
| ۵  |                                                       | Virtual S | erver List Virtua        | al Address List | Statistics | -         |             |              |          |           |                  |
|    |                                                       |           |                          |                 |            |           |             |              |          |           |                  |
| 1  |                                                       |           |                          | Sea             | arch       |           |             |              |          |           | Create           |
| 4  | E                                                     | Status    | <ul> <li>Name</li> </ul> | Descrip         | tion       | ation 🌼 I | Destination | Service Port | • Type   | Resources | Partition / Path |
|    |                                                       | 0         | ldap_proxy               |                 |            | 10        | .1.20.136   | 389          | Standard | Edit      | Common           |
|    |                                                       |           | Idaps_proxy              |                 |            | 10        | .1.20.136   | 636          | Standard | Edit      | Common           |
|    |                                                       |           | pua_webtop               |                 |            | 10        | .1.20.137   | 443 (HTTPS)  | Standard | Edit      | Common           |
|    |                                                       |           | radius_proxy             |                 |            | 10        | .1.20.136   | 1812         | Standard | Edit      | Common           |
|    |                                                       |           | webssh_proxy             |                 |            | 10        | .1.20.135   | 2222         | Standard | Edit      | Common           |
| En | able                                                  | e Disab   | le Delete                |                 |            |           |             |              |          |           |                  |

(https://devcentral.f5.com/s/Portals/0/Users/122/54/236154/CreateVS.png?ver=2018-07-27-052803-087)

- Name: BIG-IPMgmtInt
- Destination Address: This IP is arbitrary, select anything
- Service Port: **443**

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| Local Traffic » Virtual Servers : Virtual Server List » New Virtual Server |                      |  |  |  |  |  |
|----------------------------------------------------------------------------|----------------------|--|--|--|--|--|
|                                                                            |                      |  |  |  |  |  |
| General Properties                                                         |                      |  |  |  |  |  |
| Name                                                                       | BIG-IPMgmtInt        |  |  |  |  |  |
| Description                                                                |                      |  |  |  |  |  |
| Туре                                                                       | Standard             |  |  |  |  |  |
| Source Address                                                             |                      |  |  |  |  |  |
| Destination Address/Mask                                                   | 10.1.20.199          |  |  |  |  |  |
| Service Port                                                               | 443 HTTPS V          |  |  |  |  |  |
| Notify Status to Virtual Address                                           |                      |  |  |  |  |  |
| State                                                                      | Enabled ~            |  |  |  |  |  |
| Configuration: Basic                                                       |                      |  |  |  |  |  |
| Protocol                                                                   | TCP                  |  |  |  |  |  |
| Protocol Profile (Client)                                                  | tcp   v              |  |  |  |  |  |
| Protocol Profile (Server)                                                  | (Use Client Profile) |  |  |  |  |  |
| HTTP Profile                                                               | None                 |  |  |  |  |  |
| HTTP Proxy Connect Profile                                                 | None v               |  |  |  |  |  |
| FTP Profile                                                                | None ~               |  |  |  |  |  |
| RTSP Profile                                                               | None                 |  |  |  |  |  |

(https://devcentral.f5.com/s/Portals/0/Users/122/54/236154/VS1.png?ver=2018-07-27-052806-837)

- SSL Profile (Client): clientssl
- SSL Profile (Server): serverssl
- Source Address Translation: Automap

Configuring Smart Card Authentication to the BIG-IP Traffic Management User Interface (TMUI) using F5's Privileged User Access Solut...

| SSL Profile (Client)       | Selected<br>/Common<br>clientssl | Available /Common PUASSL clientssl-insecure-compatible clientssl-secure crypto-server-default-clientssl                       |
|----------------------------|----------------------------------|-------------------------------------------------------------------------------------------------------------------------------|
| SSL Profile (Server)       | Selected                         | Available /Common apm-default-serverssl crypto-client-default-serverssl pcoip-default-serverssl serverssl-insecure-compatible |
| SMTPS Profile              | None                             |                                                                                                                               |
| Client LDAP Profile        | None                             |                                                                                                                               |
| Server LDAP Profile        | None                             |                                                                                                                               |
| SMTP Profile               | None                             |                                                                                                                               |
| VLAN and Tunnel Traffic    | All VLANs and Tunnels            | ~                                                                                                                             |
| Source Address Translation | Auto Map ~                       |                                                                                                                               |
| Content Rewrite            |                                  |                                                                                                                               |
| Rewrite Profile +          | None                             | ×                                                                                                                             |
| HTML Profile               | None                             |                                                                                                                               |

(https://devcentral.f5.com/s/Portals/0/Users/122/54/236154/VS2.png?ver=2018-07-27-052810-320)

- Scroll until you reach the Default Pool option and click the + button to create a new pool.
- Name: BIG-IP
- Health Monitors: HTTP
- Address: Management IP address
- Service Port: 443
- Click Add and Finished

Configuring Smart Card Authentication to the BIG-IP Traffic Management User Interface (TMUI) using F5's Privileged User Access Solut...

| Local Traffic » Pools : Poo | List » New Pool                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|-----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Configuration: Basic        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Name                        | BIG-IP                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Description                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Health Monitors             | Active Available  /Common  http  <<  yeta  yeta |
| Resources                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Load Balancing Method       | Round Robin ~                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Priority Group Activation   | Disabled                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| New Members                 | New Node O New FQDN Node O Node List Node Name:     (Optional) Address:     10.1.1.246 Service Port:     443     HTTPS     Add      Node Name Address/FQDN Service Port Auto Populate Priority 10.1.1.246 10.1.1.246 443 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |

(https://devcentral.f5.com/s/Portals/0/Users/122/54/236154/CreatePool.png?ver=2018-07-27-052814-053)

- The pool should be selected for you after creation.
- Click Finished

| Resources                    |          |                                                                                                                                                                           |
|------------------------------|----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| iRules                       | Up Down  | Available<br>/Common<br>_sys_APM_ExchangeSupport_OA_BasicAuth<br>_sys_APM_ExchangeSupport_OA_NtlmAuth<br>_sys_APM_ExchangeSupport_helper<br>_sys_APM_ExchangeSupport_main |
| Policies                     | Enabled  | Available                                                                                                                                                                 |
| Default Pool +               | BIG-IP ~ |                                                                                                                                                                           |
| Default Persistence Profile  | None     |                                                                                                                                                                           |
| Fallback Persistence Profile | None v   |                                                                                                                                                                           |
| Cancel Repeat Finished       |          |                                                                                                                                                                           |

(https://devcentral.f5.com/s/Portals/0/Users/122/54/236154/SelectPool.png?ver=2018-07-27-052817-180)

## **Creating a Single Sign On Profile for TMUI**

- Navigate to Access >> Single Sign On >> Forms Based >> Click Create
- Name: f5mgmtgui\_SSO
- SSO Template: None
- Headers Name: Referer
- Headers Value: https://IPofBIGIPVS/tmui/login.jsp
- Username Source: session.logon.last.username
- Password Source: session.custom.ephemeral.last.password

| Access » Single Sign-On » New SSO Configuration |                                                                                                                |  |  |  |  |  |  |  |
|-------------------------------------------------|----------------------------------------------------------------------------------------------------------------|--|--|--|--|--|--|--|
| General Properties: Advanced ~                  | J                                                                                                              |  |  |  |  |  |  |  |
| Name                                            | f5mgmtgui_SSO                                                                                                  |  |  |  |  |  |  |  |
| SSO Method                                      | Forms                                                                                                          |  |  |  |  |  |  |  |
| Use SSO Template                                | None ~                                                                                                         |  |  |  |  |  |  |  |
| Headers                                         | Name Referer<br>Value https://10.1.20.199/tmui/login.jsp<br>Add<br>Referer: https://10.1.20.199/tmui/login.jsp |  |  |  |  |  |  |  |
| Log Settings +                                  | From Access Profile ~                                                                                          |  |  |  |  |  |  |  |
| Credentials Source                              |                                                                                                                |  |  |  |  |  |  |  |
| Username Source                                 | session.logon.last.username                                                                                    |  |  |  |  |  |  |  |
| Password Source                                 | ssion.custom.ephemeral.last.password                                                                           |  |  |  |  |  |  |  |

(https://devcentral.f5.com/s/Portals/0/Users/122/54/236154/SSO1.png?ver=2018-07-27-052820-337)

- Start URI: /tmui/login.jsp
- Form Action: /tmui/logmein.html
- Form Parameter For User Name: username
- Form Parameter For Password: passwd
- Click Finished

Configuring Smart Card Authentication to the BIG-IP Traffic Management User Interface (TMUI) using F5's Privileged User Access Solut...

| SSO Method Configuration                  |                    |
|-------------------------------------------|--------------------|
| Start URI                                 | /tmui/login.jsp    |
| Pass Through                              | Enable             |
| Form Method                               | POST 🗸             |
| Form Action                               | /tmui/logmein.html |
| Form Parameter For User Name              | username           |
| Form Parameter For Password               | passwd             |
| Hidden Form Parameters/Values             |                    |
| Successful Logon Detection<br>Match Type  | None               |
| Successful Logon Detection<br>Match Value | ь                  |
| Cancel Finished                           |                    |

(https://devcentral.f5.com/s/Portals/0/Users/122/54/236154/SSO2.png?ver=2018-07-27-052823-053)

## **Creating a Portal Access List and Resource**

Navigate to Access >> Connectivity / VPN >> Portal Access >> Portal Access Lists >> Click Create

| Z                     | Access » Connectivity / VPN : Portal Access : Portal Access Lists |           |                      |                         |                              |      |             |               |             |                                     |      |               |  |
|-----------------------|-------------------------------------------------------------------|-----------|----------------------|-------------------------|------------------------------|------|-------------|---------------|-------------|-------------------------------------|------|---------------|--|
| k                     | 🚓 🗸 Connectivity 📼 Ne                                             |           | Network Access (VPN) |                         | VDI / RDP - Microsoft Exchan |      | ft Exchange | Portal Access | -           |                                     |      |               |  |
| Create With Template. |                                                                   |           |                      |                         |                              |      | Create      |               |             |                                     |      |               |  |
| 6                     |                                                                   | ACL Order | Name                 |                         | Resource Items               |      |             | · Link Type   | Description | Access Profiles                     | • Pa | tition / Path |  |
| C                     | ) (                                                               | 0         | sample_p             | ua_policy-webssh_portal | https://10.1.20.135:222      | 22/* |             | Application U | JRI         | LyonsPUAPolicy<br>sample_pua_policy | Comr | non           |  |
| C                     | 1                                                                 | 1         | LyonsPort            | talAccess               | https://10.1.20.100:222      | 22/* |             | Application L | JRI         |                                     | Com  | non           |  |
| 1                     | )elet                                                             | te        |                      |                         |                              |      |             |               |             |                                     |      |               |  |

(https://devcentral.f5.com/s/Portals/0/Users/122/54/236154/CreatePA.png?ver=2018-07-27-052826-227)

- Name: BIG-IPMgmtIntPA
- Link Type: Application URI
- Application URI: https://IPofBIGIPVS/tmui/login.jsp
- Click Create

Configuring Smart Card Authentication to the BIG-IP Traffic Management User Interface (TMUI) using F5's Privileged User Access Solut...

| Access » Connectivity / VPN : Portal Access : Portal Access Lists » New Resource |                                                                                           |  |  |  |  |  |
|----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|--|--|--|--|--|
|                                                                                  |                                                                                           |  |  |  |  |  |
| General Properties                                                               |                                                                                           |  |  |  |  |  |
| Name                                                                             | BIG-IPMgmtIntPA                                                                           |  |  |  |  |  |
| Description                                                                      |                                                                                           |  |  |  |  |  |
| ACL Order                                                                        | Last                                                                                      |  |  |  |  |  |
| Configuration: Basic                                                             |                                                                                           |  |  |  |  |  |
| Match Case For Paths                                                             | Yes v                                                                                     |  |  |  |  |  |
| Patching                                                                         | Type Full Patching  HTML Patching CSS Patching Flash Patching Java Patching Java Patching |  |  |  |  |  |
| Publish on Webtop                                                                | ☑ Enable                                                                                  |  |  |  |  |  |
| Link Type                                                                        | Application URI ~                                                                         |  |  |  |  |  |
| Application URI                                                                  | https://10.1.20.199/tmui/login.jsp                                                        |  |  |  |  |  |
| Customization Settings for Englis                                                | sh                                                                                        |  |  |  |  |  |
| Language                                                                         | English                                                                                   |  |  |  |  |  |
| Caption                                                                          | BIG-IPMgmtintPA                                                                           |  |  |  |  |  |
| Detailed Description                                                             |                                                                                           |  |  |  |  |  |
| Image                                                                            | Browse No file selected. View/Hide                                                        |  |  |  |  |  |
| Cancel Create                                                                    |                                                                                           |  |  |  |  |  |

(https://devcentral.f5.com/s/Portals/0/Users/122/54/236154/CreatePAResource.png?ver=2018-07-27-052829-243)

• After the Portal Access List is created, click the **Add** button in to add a resource.

| Resource Items Change Order Add |      |       |  |  |  |
|---------------------------------|------|-------|--|--|--|
| Host or IP Address              | Port | Paths |  |  |  |
| No records to display.          |      |       |  |  |  |
| Remove                          |      |       |  |  |  |

(https://devcentral.f5.com/s/Portals/0/Users/122/54/236154/AddResource.png?ver=2018-07-27-052832-633)

- Link Type: Paths
- Destination Type: IP
- Destination IP Address: IP of the BIGIP virtual server
- Paths: /\*
- Scheme: https
- Port: 443
- SSO Configuration: Select the SSO profile created previously in this article
- Click Finished

| Access » Connectivity /   | VPN : Portal Access : Portal Access Lists » BIG-IPMgmtintPA |
|---------------------------|-------------------------------------------------------------|
| 🔅 🗸 Properties            |                                                             |
|                           |                                                             |
| Resource Item: Advanced   |                                                             |
| Link Type                 | Paths                                                       |
| Destination               | Type: O Host Name  IP Address IP Address 10.1.20.199        |
| Paths                     | <i>I</i> *                                                  |
| Scheme                    | https 🖂                                                     |
| Port                      | 443                                                         |
| Headers                   | Name Value Add Edit Delete                                  |
| Resource Item Properties: | Advanced ~                                                  |
| Compression               | GZIP Compression                                            |
| Client Cache              | Default 🗹                                                   |
| SSO Configuration         | None                                                        |
| Session Update            | ☑ Enabled                                                   |
| Session Timeout           | ☑ Enabled                                                   |
| Home Tab                  | ☑ Enabled                                                   |
| Log                       | None ~                                                      |

(https://devcentral.f5.com/s/Portals/0/Users/122/54/236154/AddRes1.png?ver=2018-07-27-052836-257)

## **Assign the new Portal Access Resource**

• Navigate to Access >> Profiles / Policies >> Click the Edit button in the row of the PUA Policy created using the previous guide.

| Acc                 | ess » Pro | files / Policies : Access Pr | ofiles (Per-Sessi  | on Policies) |                    |        |        |                     |                 |                  |
|---------------------|-----------|------------------------------|--------------------|--------------|--------------------|--------|--------|---------------------|-----------------|------------------|
| 🔅 🗸 Access Profiles |           | Profiles Per-Request Po      | olicies Policy Sys | nc Custo     | mization 👻         |        |        |                     |                 |                  |
|                     |           |                              |                    |              |                    |        |        |                     |                 |                  |
| •                   |           |                              | Search             |              |                    |        |        |                     | Cr              | reate Import     |
| -                   | · Status  | ▲ Access Profile Name        | Application        | Profile Type | Per-Session Policy | Export | Сору   | Logs                | Virtual Servers | Partition / Path |
|                     | )#        | LyonsPUAPolicy               |                    | All          | 🗖 Edit             | Export | Copy   | default-log-setting | pua_webtop      | Common           |
|                     | 14 M      | access                       |                    | All          | (none)             | (none) | (none) |                     |                 | Common           |
|                     | 10        | sample pua policy            |                    | All          | Edit               | Export | Copy   | default-log-setting |                 | Common           |

(https://devcentral.f5.com/s/Portals/0/Users/122/54/236154/EditPUAPolicy.png?ver=2018-07-27-052839-460)

- From the Admin Access Macro click Advanced Resource Assign
- Click the Add / Delete Button from the Resource Assignment page.

| Properties* Branch Rules       |                                                                                                           |  |  |  |
|--------------------------------|-----------------------------------------------------------------------------------------------------------|--|--|--|
| Name: Advanced Resource Assign |                                                                                                           |  |  |  |
| Resource Assignment            |                                                                                                           |  |  |  |
| 1                              | dd new entry Insert Before: 1 🔀                                                                           |  |  |  |
|                                | Expression: Empty change                                                                                  |  |  |  |
| 1                              | Portal Access: /Common/sample_pua_policy-webssh_portal<br>Webtop: /Common/sample_pua_policy<br>Add/Delete |  |  |  |

(https://devcentral.f5.com/s/Portals/0/Users/122/54/236154/AddPAtoPolicy.png?ver=2018-07-27-052842-837)

• Select the **Portal Access** tab and place a check mark next to the portal access resource created in the previous steps.

- Click Update
- Click Apply Access Policy

| Begin typing to search in Current Tab                                                                              |
|--------------------------------------------------------------------------------------------------------------------|
| Static ACLs 0/0 Portal Access 2/2 Webtop Links 0/1 Webtop 1/2 Webtop Sections 0/1 Static Pool 0/7 Show 4 more tabs |
| Common/BIG-IPMgmtIntPA                                                                                             |
| Common/sample_pua_policy-webssh_portal                                                                             |
|                                                                                                                    |
|                                                                                                                    |
|                                                                                                                    |
|                                                                                                                    |
|                                                                                                                    |
|                                                                                                                    |
|                                                                                                                    |
|                                                                                                                    |
|                                                                                                                    |
|                                                                                                                    |
|                                                                                                                    |
|                                                                                                                    |
| Cancel Update                                                                                                      |
| nttps://devcentral.f5.com/s/Portals/0/Users/122/54/236154/CheckBox.png?ver=2018-07                                 |

070)

#### **Validation Testing**

• From a web browser navigate to webtop.demo.lab.

- Click OK, Proceed to Application
- Select your user certificate when prompted and click OK

• From the Webtop, select the portal access resource you created in previous steps.

• If successful, you will be redirected to the BIG-IP TMUI as shown below.

Now you have successfully configured SSO to the BIG-IP TMUI using forms based authentication. I'm sure many of you are wondering how it is possible to perform forms based authentication when I provided no password in this entire article. This is possible because of the ability for the F5 PUA solution to generate a one-time password on behalf of the user and present it to the application. Thanks for following and I will continue with additional use cases and capabilities of the F5 BIG-IP.

#### **Appendix**

If for any reason you attempt to logout of TMUI and are logged back in immediately, it is likely because of middle ware you have in place on your workstation though no need to worry, there's an iRule for that! Simply add the following iRule to the Webtop virtual server and you will be good to go.

| when HTTP_REQUEST { | <pre>#log local0. "[HTTP::uri]"</pre> | <pre>switch -glob [HTTP::uri] {</pre> |
|---------------------|---------------------------------------|---------------------------------------|
| •                   |                                       | ▶                                     |
|                     |                                       |                                       |
| }                   |                                       |                                       |

## **Topics in this Article:**

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