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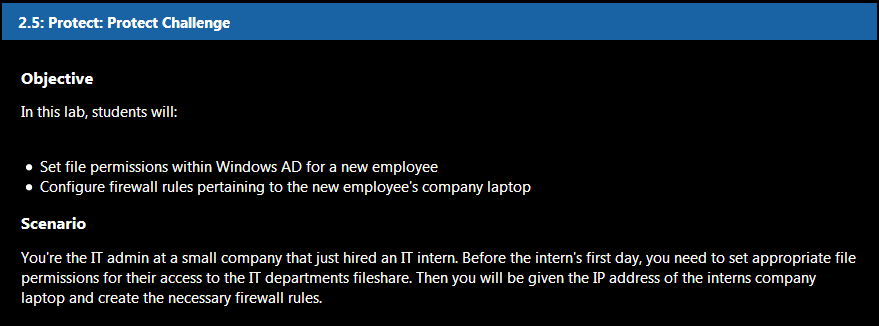
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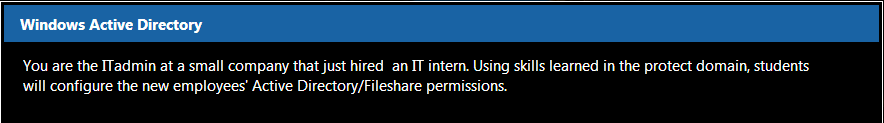
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# 04 PROTECT CHALLENGE

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| TASK | KEY PERFORMANCE INDICATORS |
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## 4.1 Windows Active Directory

### 4.1.1 Login to Windows

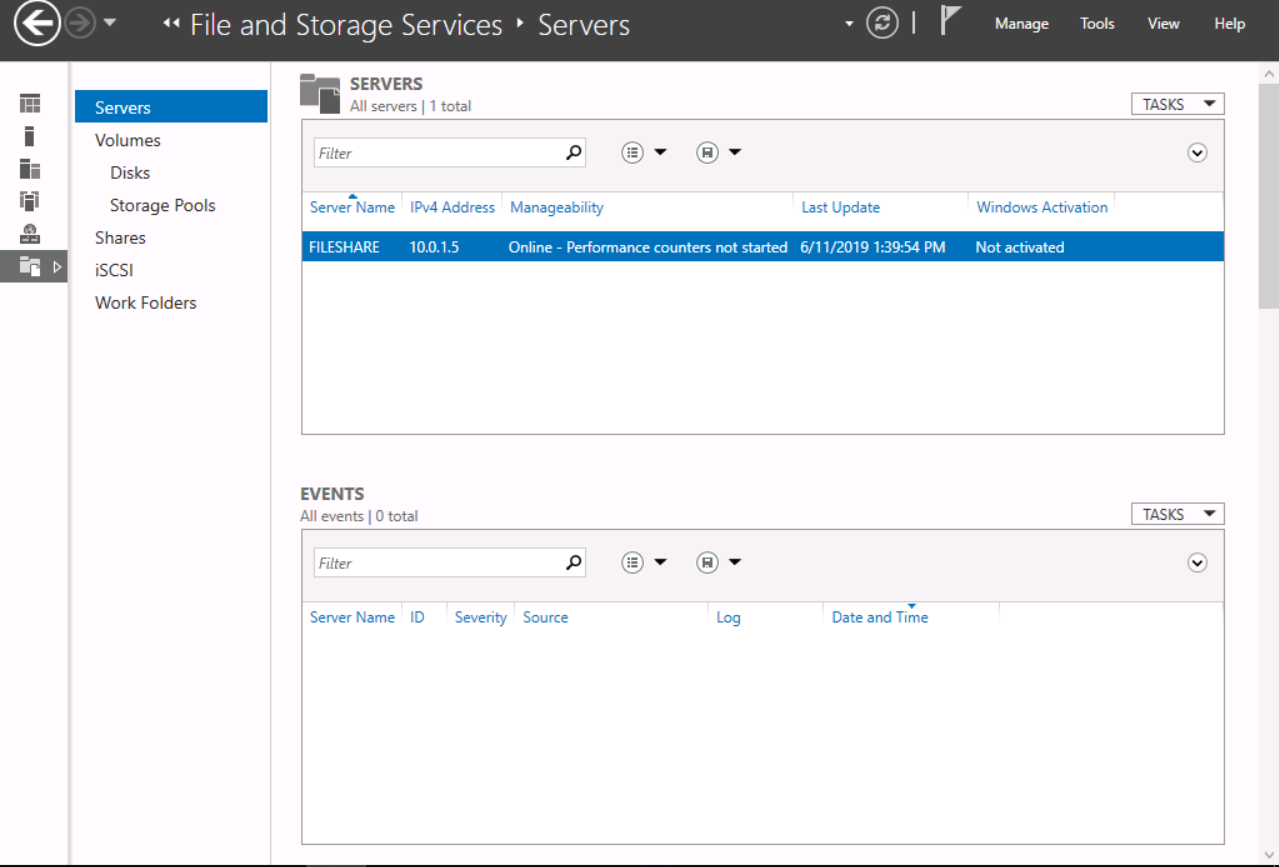
Log in to the Windows Server. User: **itadmin** Password: **IamanIT!**

### 4.1.2 Server Manager

Open **Server Manager** (If it doesn't open upon login). Click on **File and Storage Services**.

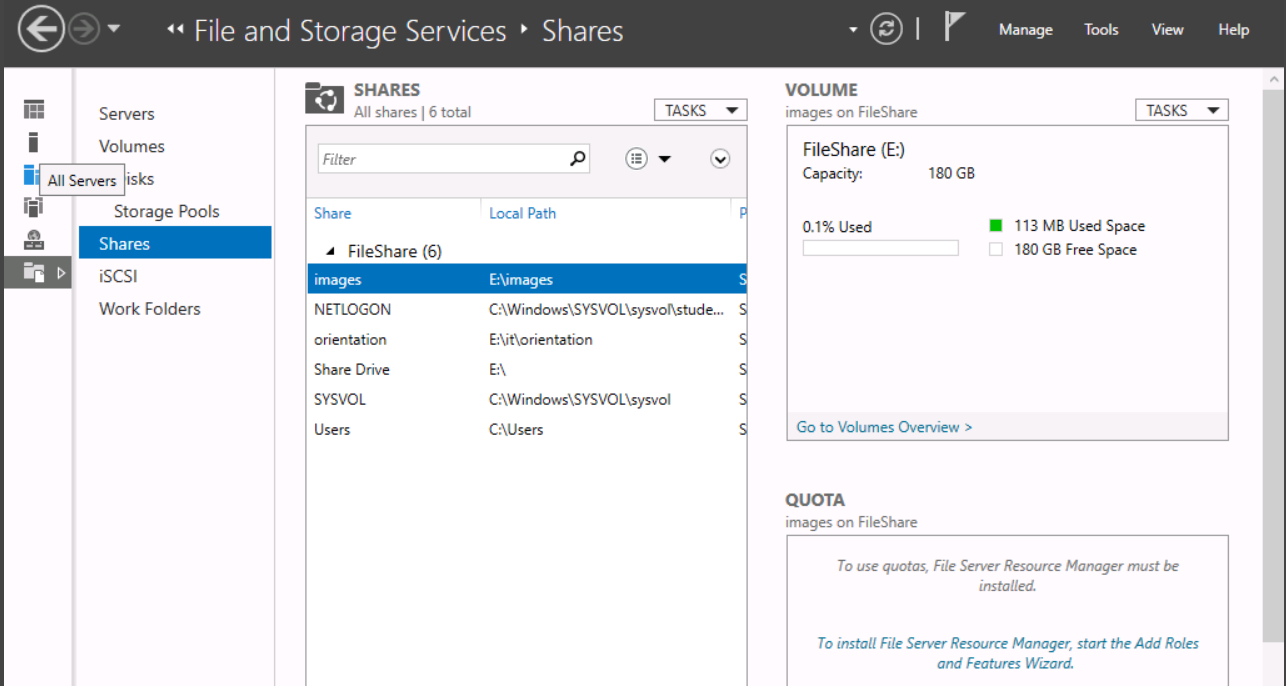
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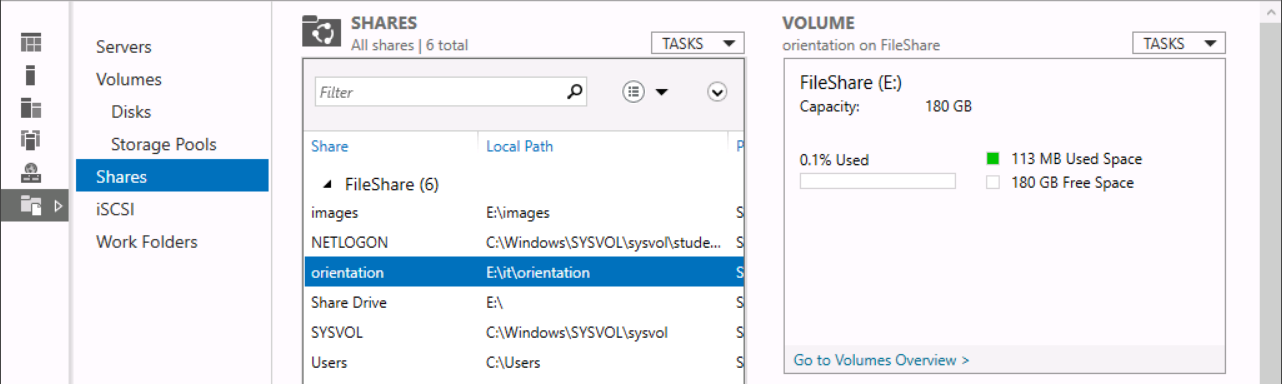
### 4.1.3 Orientation Fileshare

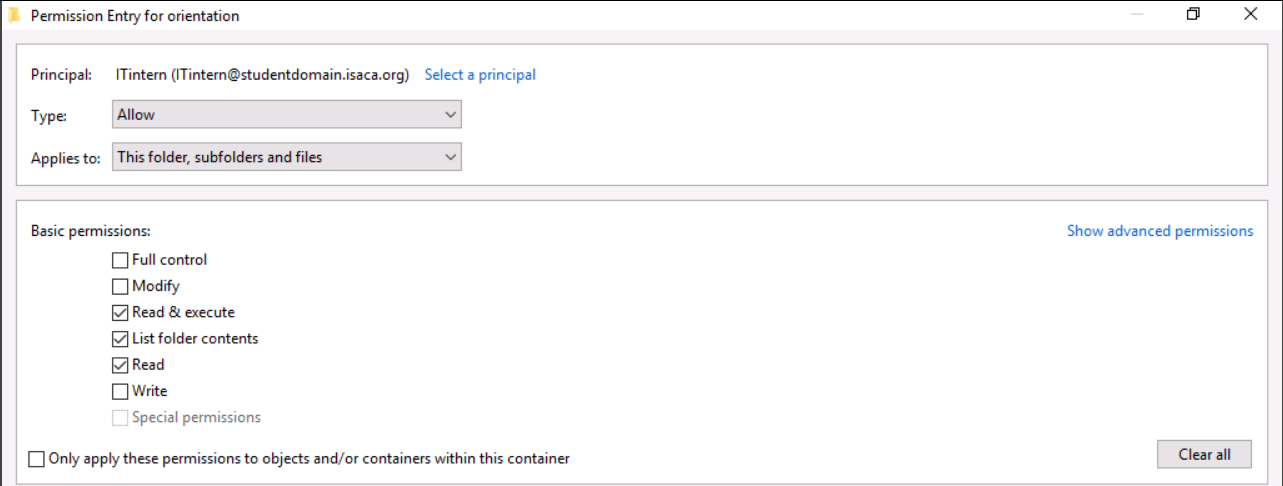
In preparation for their newest team member, the IT team shared an Orientation folder which will contain important documents for their intern's first week. Click **Shares**.

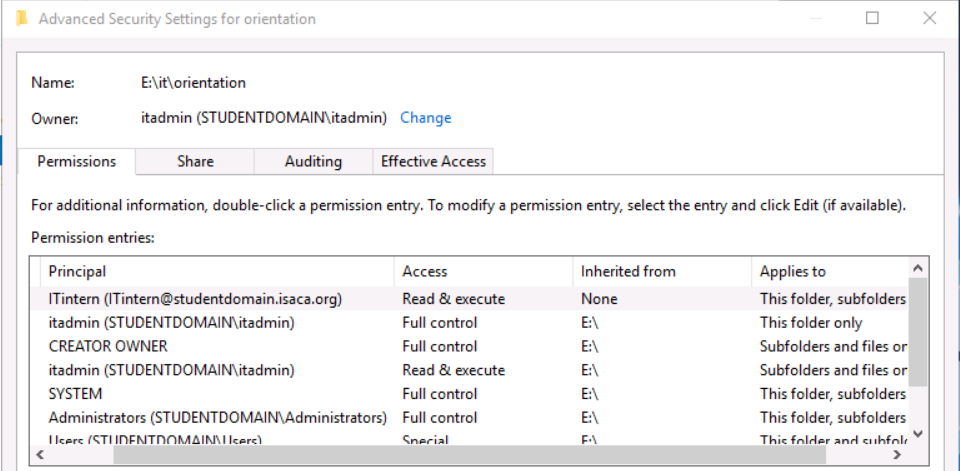


### 4.1.4 Configuring Permissions I

For the **E: --> IT --> Orientation** fileshare, give **ITintern Read** and **Execute** permissions. Give **ITadmin full control**.

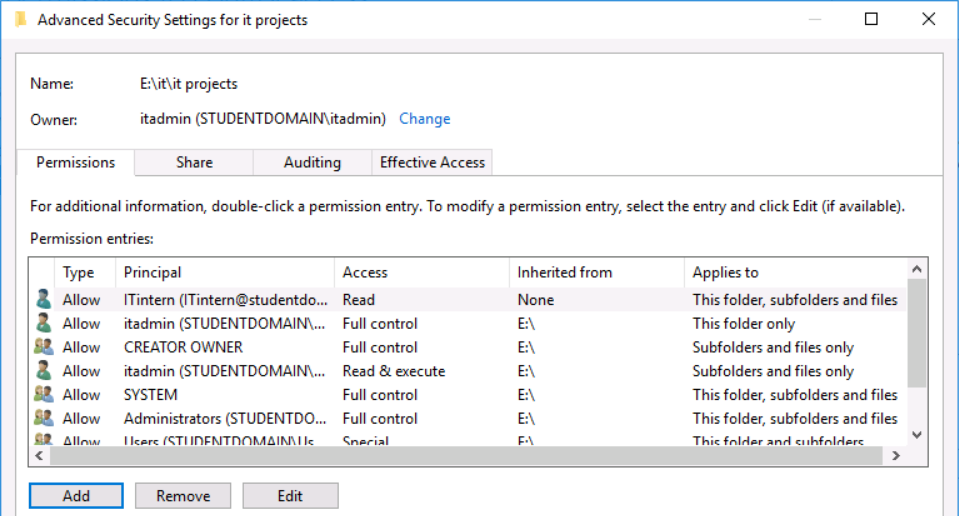




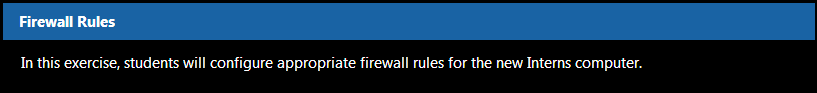


### 4.1.5 Configuring Permissions II

Create a share for the **IT projects folder** within the **IT directory**. Give **ITintern** **read-only** permissions.



## 4.2 Firewall Rules

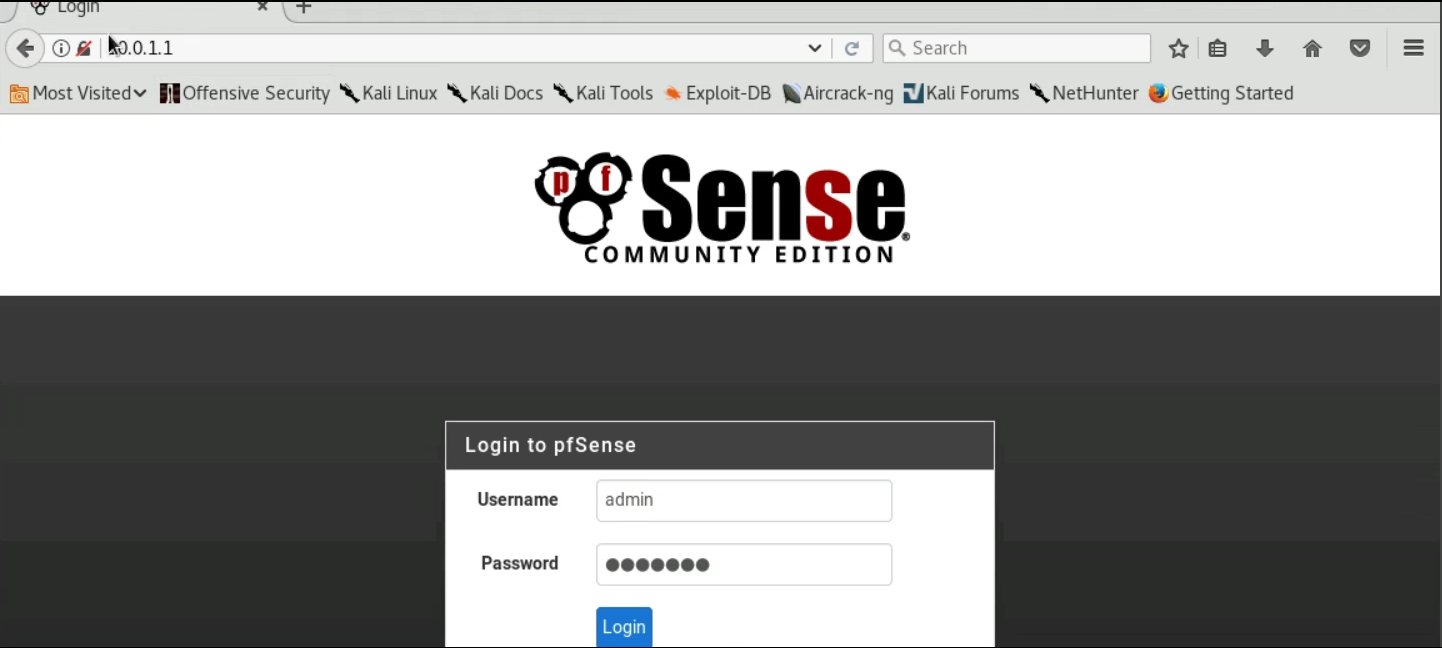


### 4.2.1 Login to Kali

Login to Kali with username **root** and password **isaca**., Then, open a browser and navigate to **http://10.0.1.1**

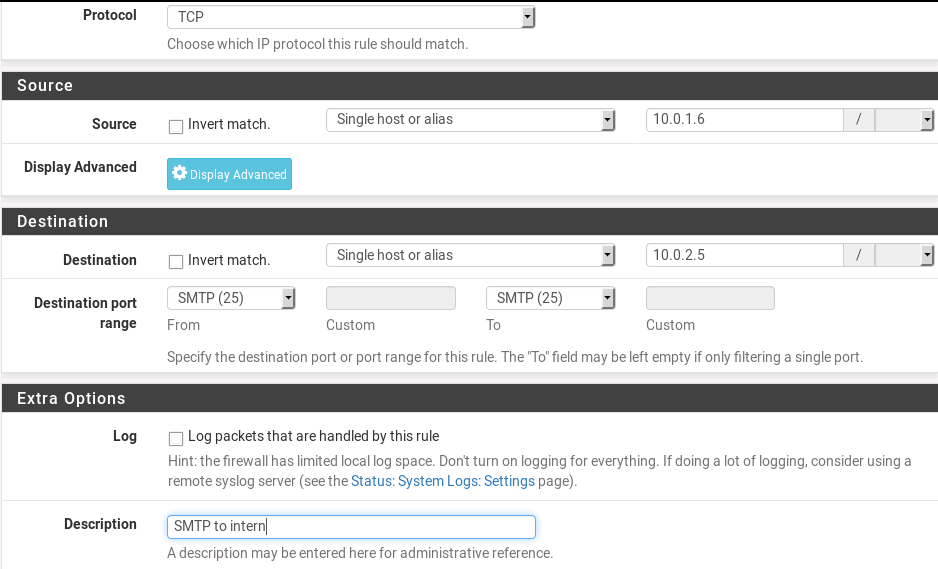
### 4.2.2 Login to Pfsense

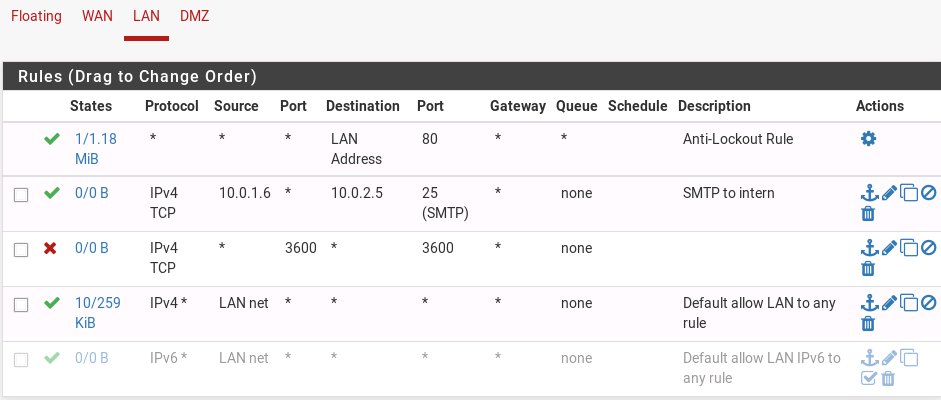
Login to Pfsense with username **admin**, and password **pfsense**



### 4.2.3 Mail Server Rule

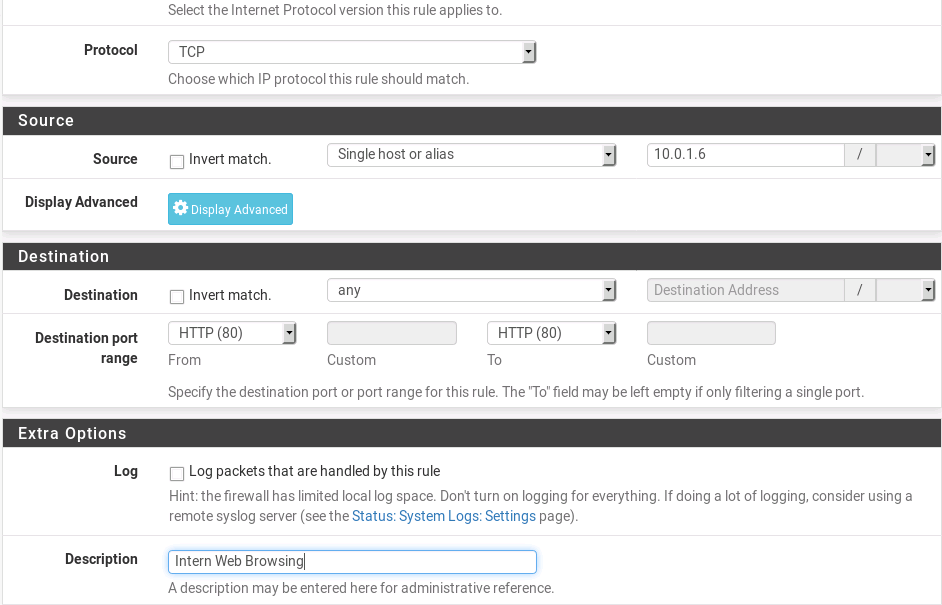
Click **Firewall --> Rules**. Then create a LAN rule allowing the Interns computer to receive mail from our mail server. The mail server is on the **DMZ** with an IP of **10.0.2.5** and uses **SMTP (port 25)** to relay emails. The Intern's new computer has a static IP address of **10.0.1.6** and is on the **LAN**. Set the description as "**SMTP to Intern**".

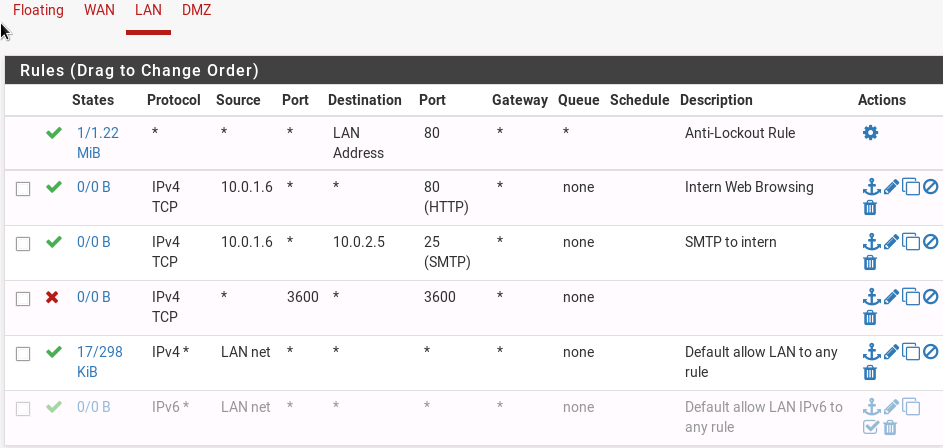




### 4.2.4 Web Browsing Rule

Create another LAN rule, this time allowing the intern to browse the web using **HTTPS**. Set the description as "**Intern Web Browsing**".





### 4.2.5 Download Configuration

Download your firewall configuration by clicking **Diagnostics --> Backup & Restore**. Then click "**Download configuration as XML**", and rename the file "**InternRules.xml**" and save it to your Desktop.

A screenshot of a cell phone

Description automatically generated

# 05 VULNERABILITY ANALYSIS

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| TASK | KEY PERFORMANCE INDICATORS |
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# 06 DETECT CHALLENGE

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| TASK | KEY PERFORMANCE INDICATORS |
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# 07 NOTIFICATION AND ESCALATION

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| TASK | KEY PERFORMANCE INDICATORS |
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# 08 RESPOND CHALLENGE

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| TASK | KEY PERFORMANCE INDICATORS |
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# 09 RE-IMAGING

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| TASK | KEY PERFORMANCE INDICATORS |
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# 10 RESTORE POINTS AND PASSWORD RECOVERY

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| TASK | KEY PERFORMANCE INDICATORS |
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# Appendix