GajShield Training – URL Filtering

URL Filtering

- In this training session you will learn
  - How to setup Proxy
  - Transparent mode/Proxy Mode
  - Authentication (User/IP)
  - URL allowing/blocking
  - User Scheduling
  - Mime policy
  - Category blocking

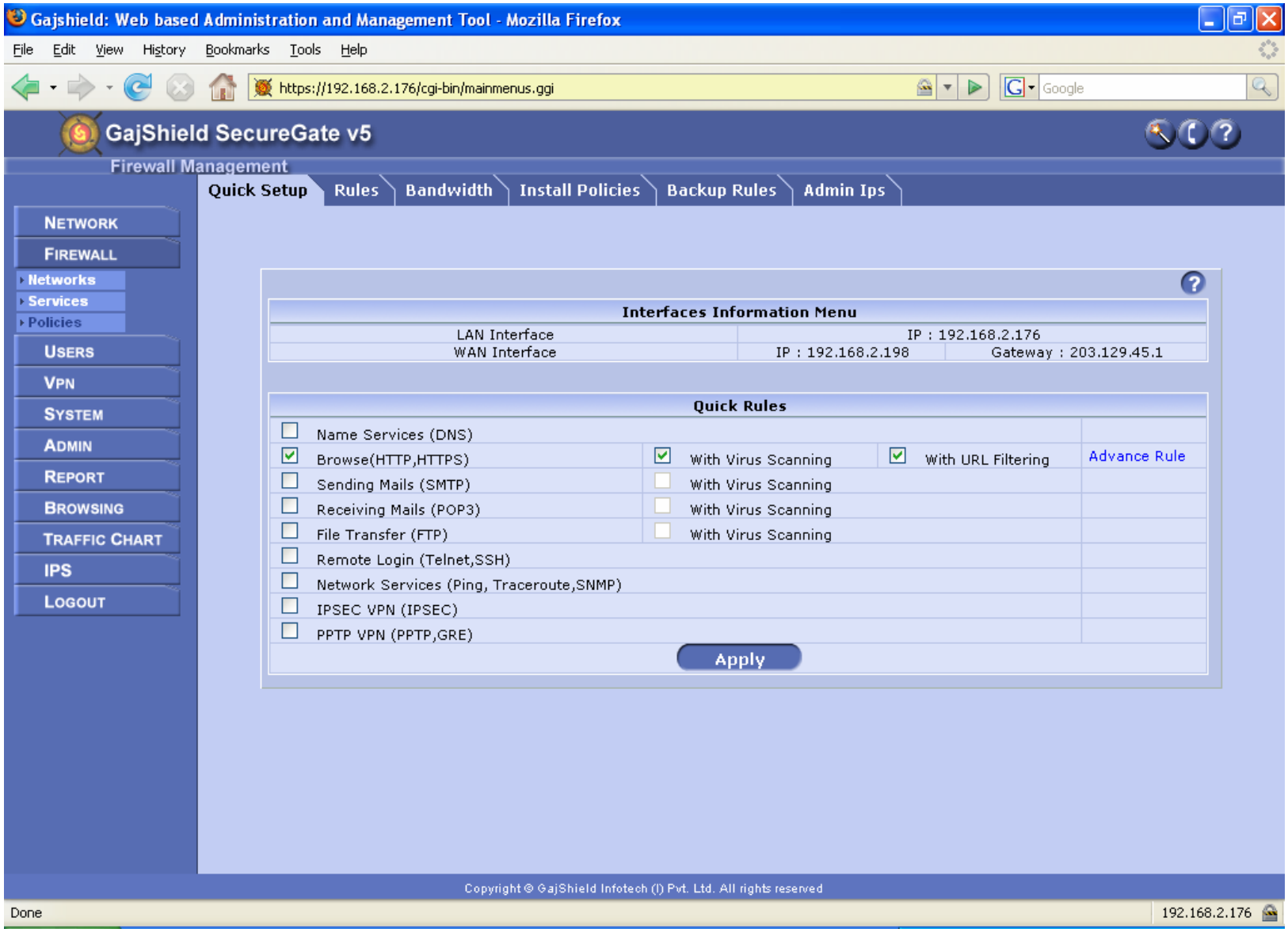
Assumptions

- You have cleared the module on ‘Basic Setup of GajShield UPTM’

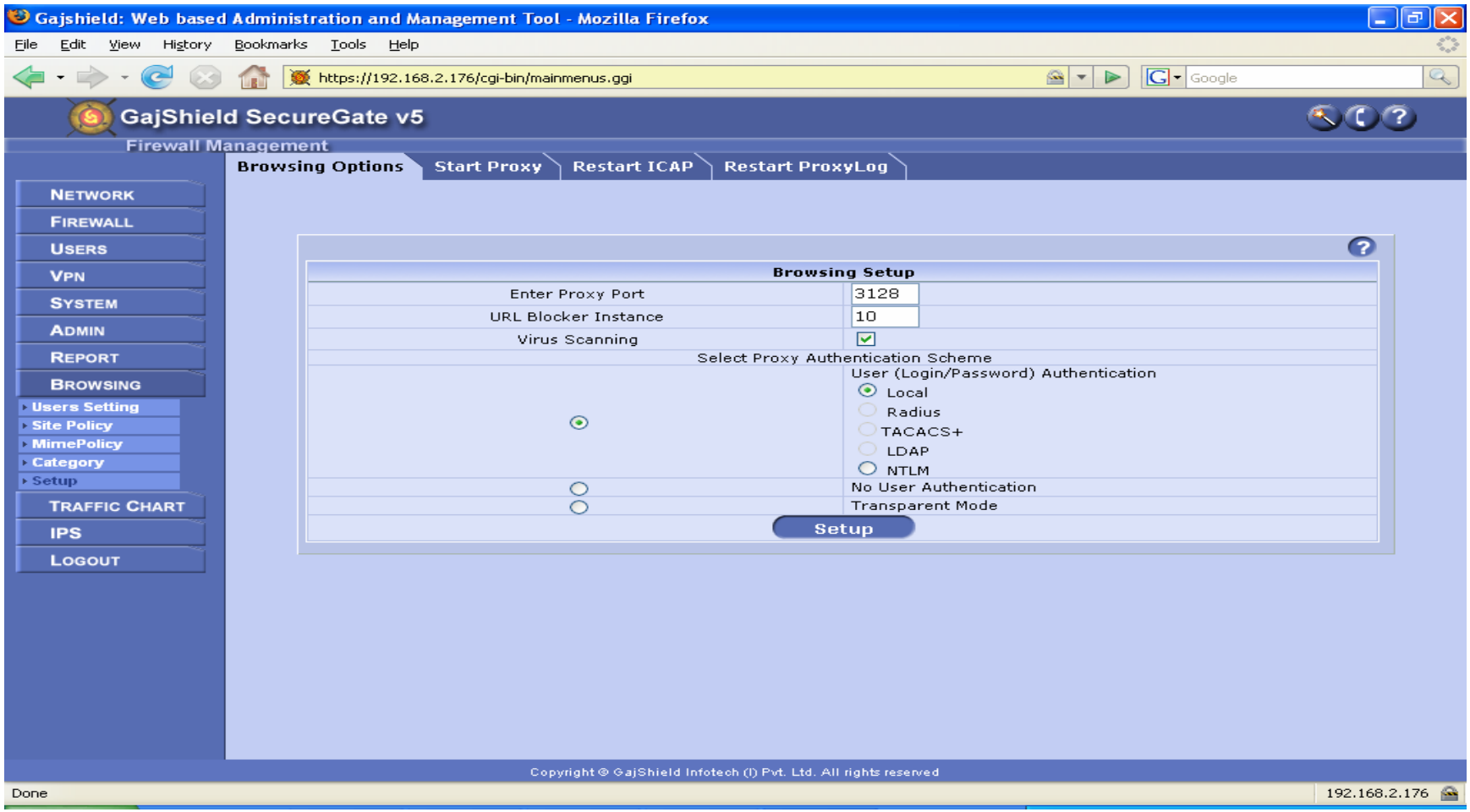
URL Filtering

- Transparent Mode
  - Browser proxy settings not required
  - All Internet traffic should flow through the firewall
  - User authentication not possible
- Proxy Mode
  - Setup the browser to use the proxy settings of the firewall
  - It is not required that all Internet traffic should flow through the firewall
  - User authentication can be enabled.

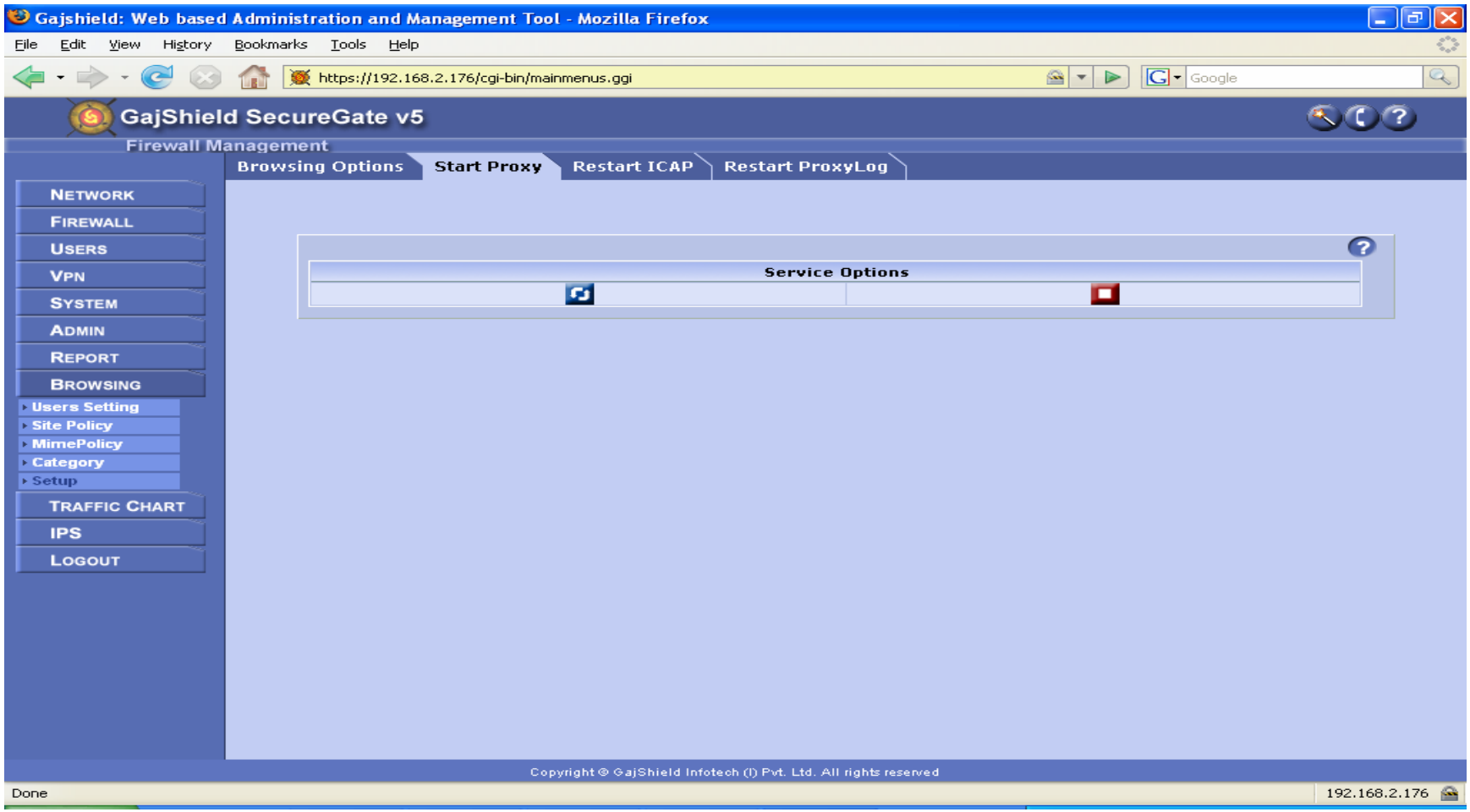
URL Filtering: Transparent



URL Filtering: Proxy Mode

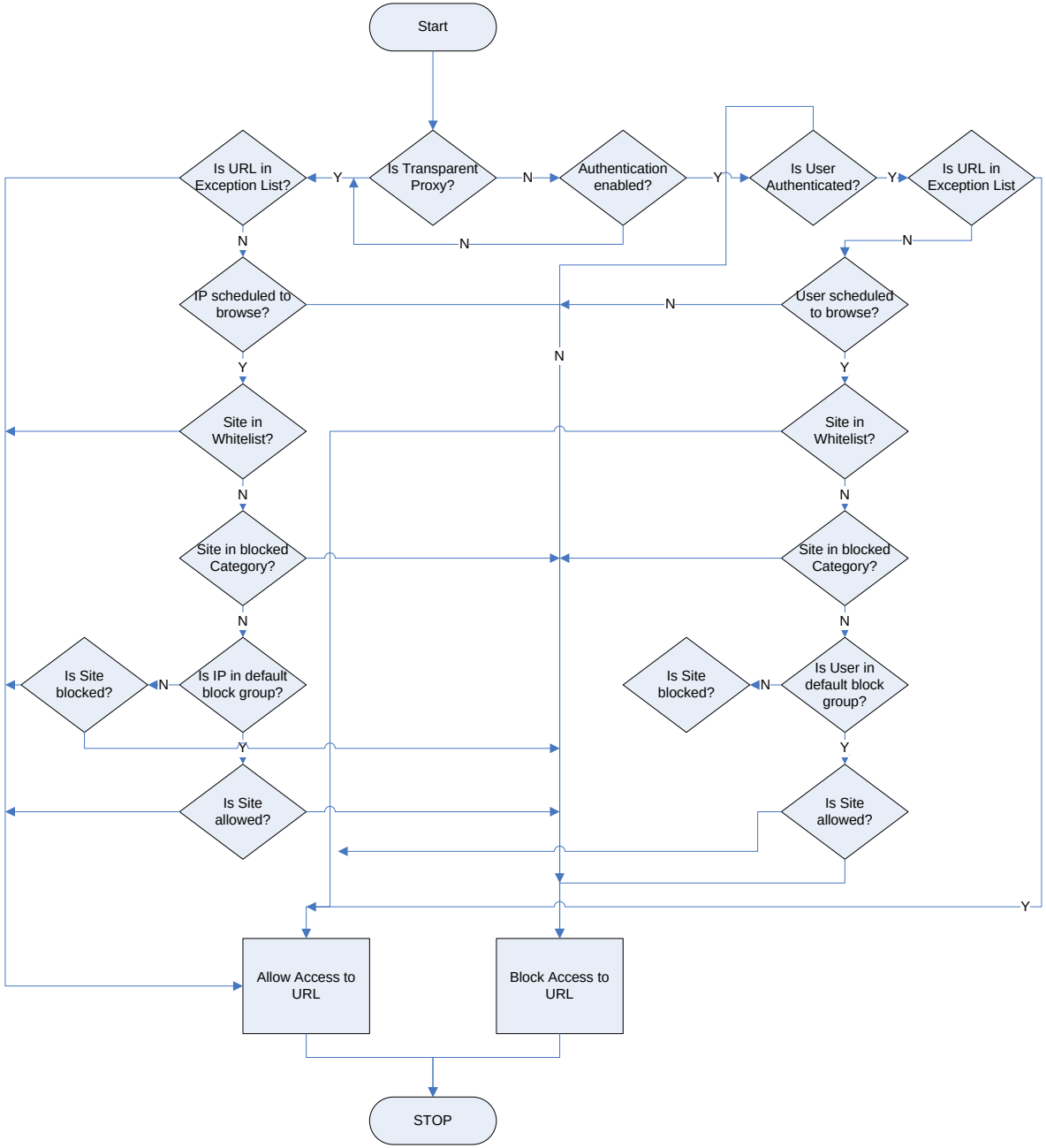


URL Filtering: Proxy Mode

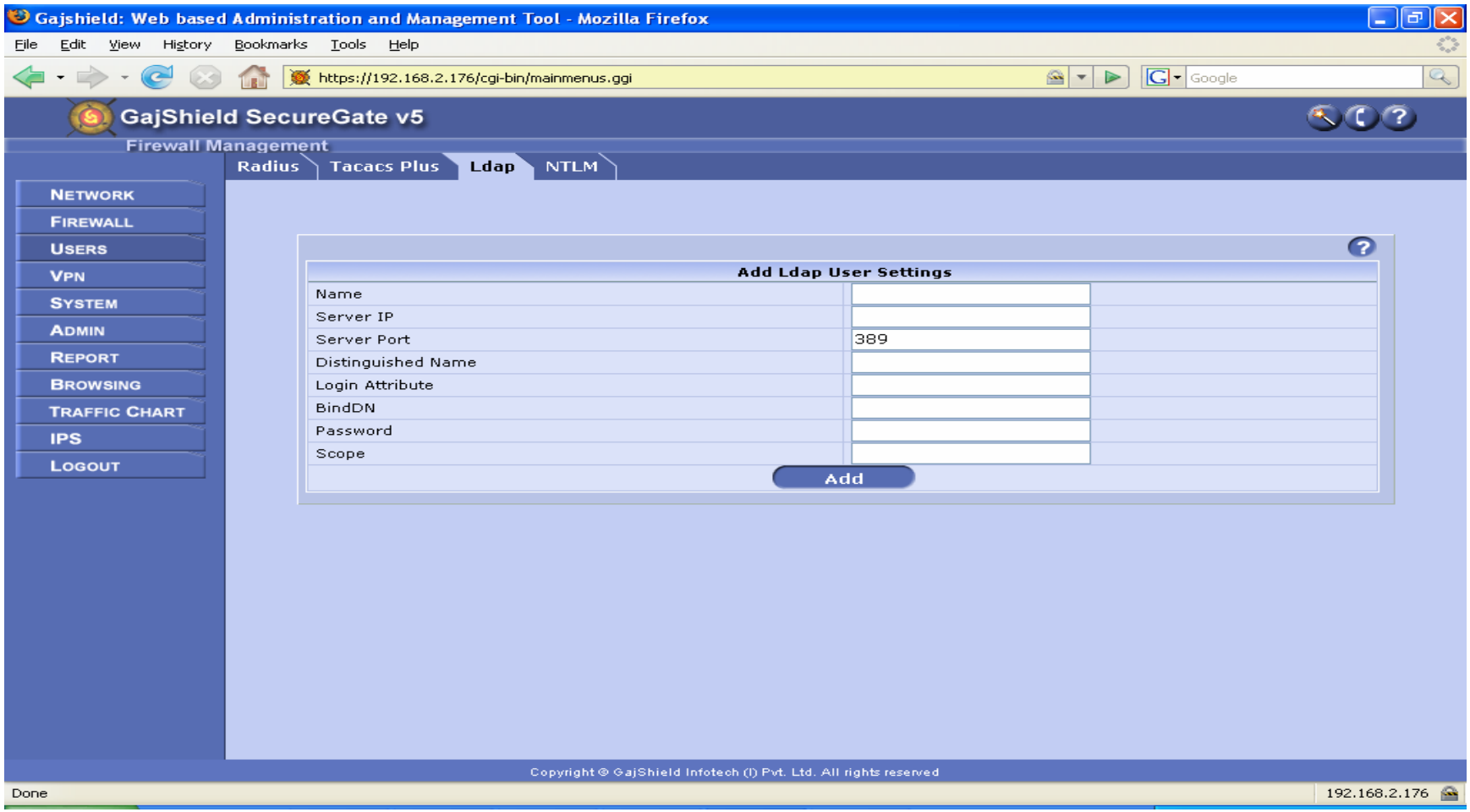


Proxy Mode: Authentication

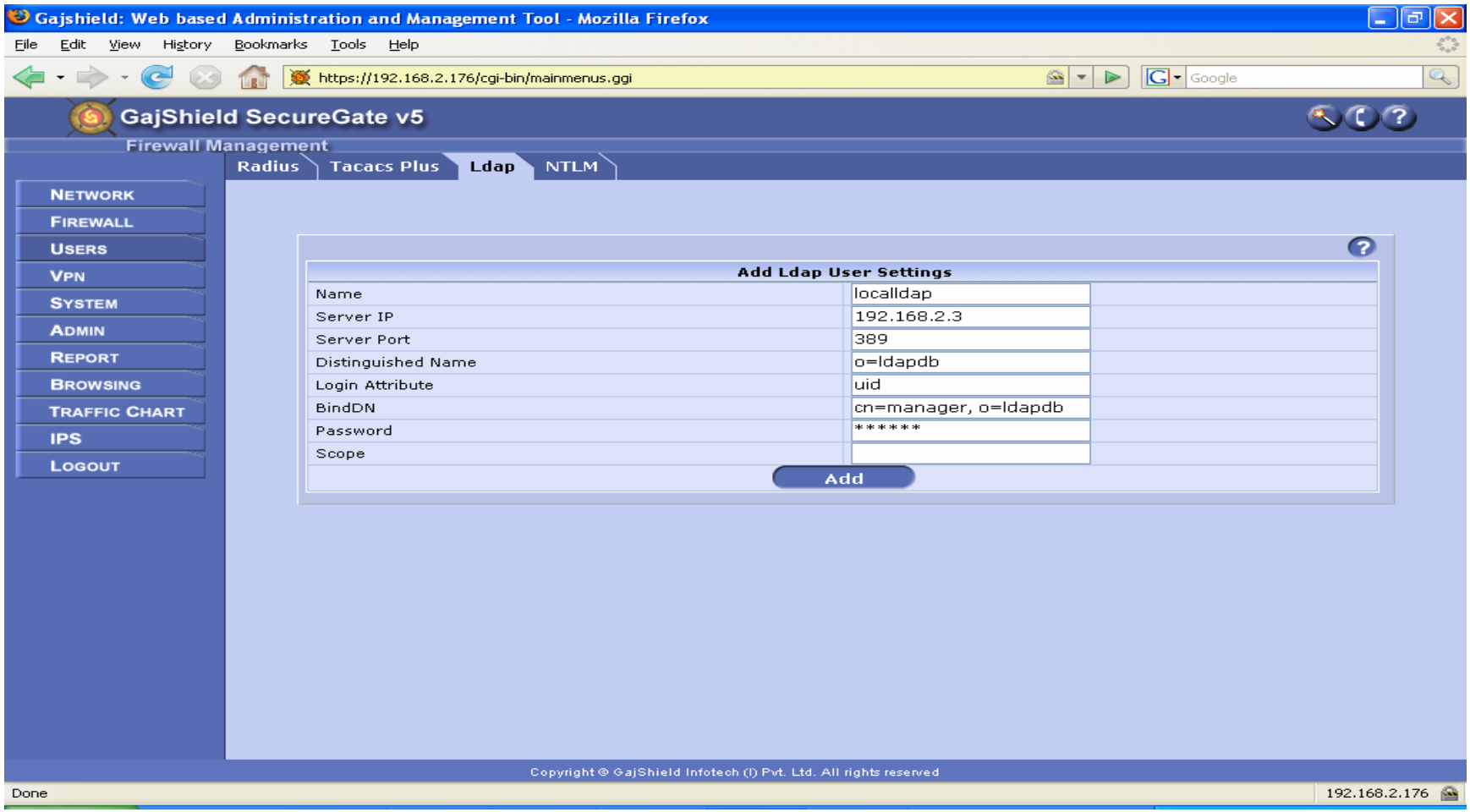
- You can enable user authentication for web browsing. Each user will have to first authenticate to the firewall and only then will he be allowed to browse, if he is allowed by the other policies.
- Flow chart


Start
Is URL in Exception List?
Y
Is Transparent Proxy?
N
Authentication enabled?
Y
Is User Authenticated?
Y
Is URL in Exception List
N
N
N
IP scheduled to browse?
N
User scheduled to browse?
N
Y
Y
Site in Whitelist?
Site in Whitelist?
N
N
Site in blocked Category?
Site in blocked Category?
N
N
Is Site blocked?
N
Is IP in default block group?
Is Site blocked?
N
Is User in default block group?
Y
Y
Is Site allowed?
Is Site allowed?
Y
Allow Access to URL
Block Access to URL
STOP

Proxy mode: User Authentication



Proxy mode: User Authentication



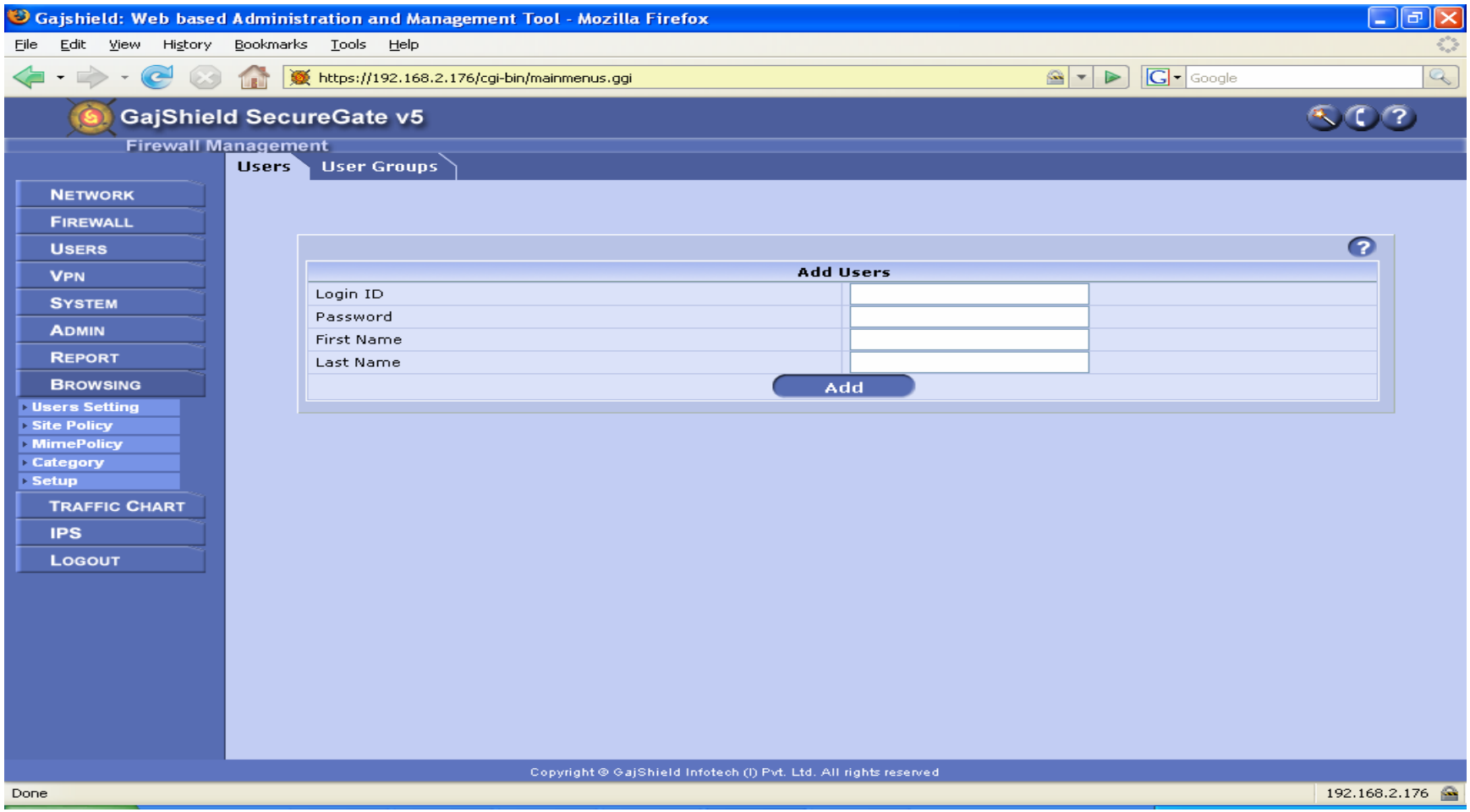
User Policies

- If you have configured URL filtering in transparent mode or selected ‘No User Authentication’ in proxy setup, all user policies will be imposed on IP address from where the user is browsing
- If you have selected ‘User Authentication’ and configured the selected database, all policies will be implemented on login ids or usernames

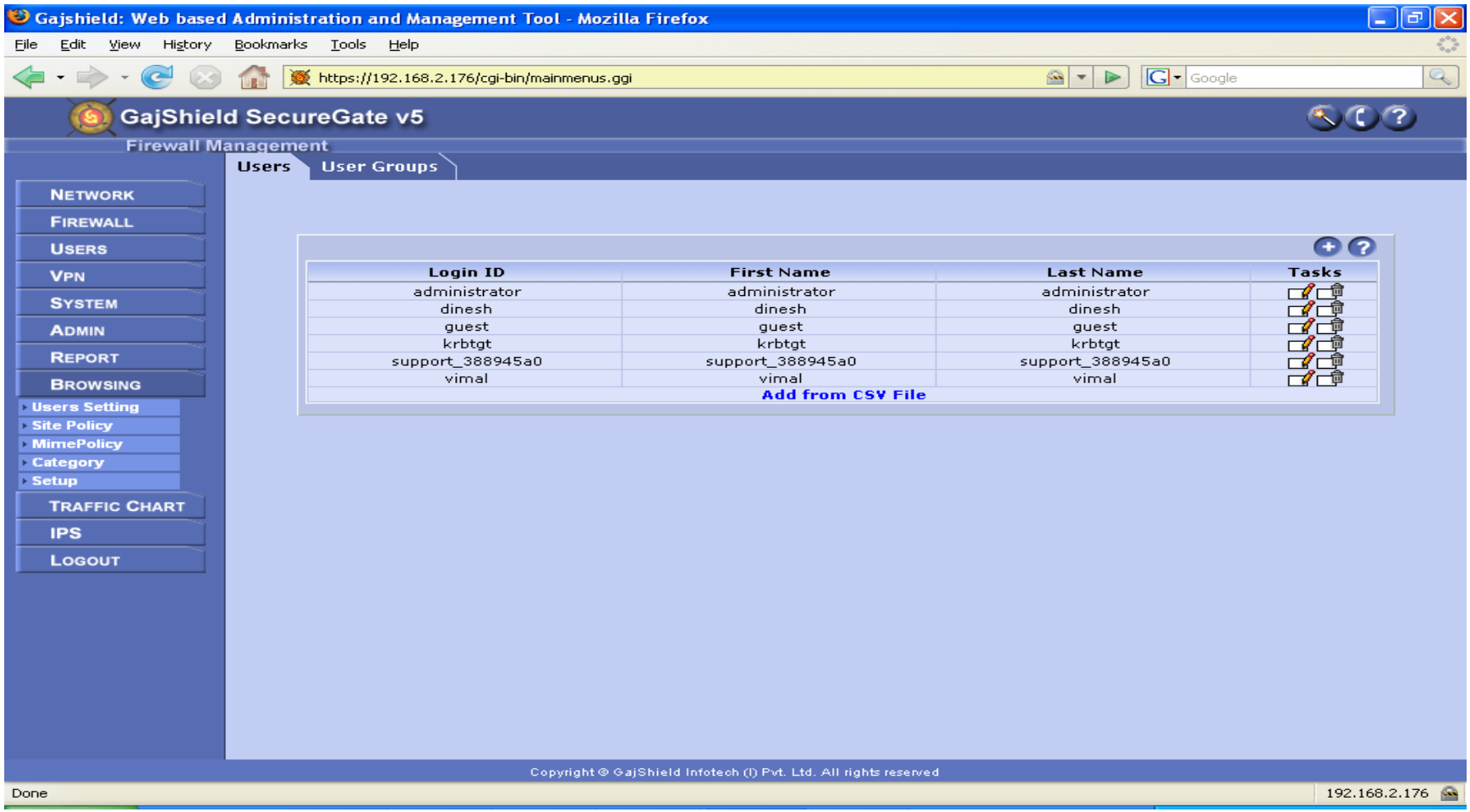
User Policies: Creating Users

- Create users on the firewall
  - Click on ‘Browsing’->’User Settings’->Users to add users in the database
    - Note: Even if you have selected an external database, like LDAP or Radius, you will still need to add users here.
    - Note: If you have selected transparent mode or no user authentication, then you will need to add IP’s are users

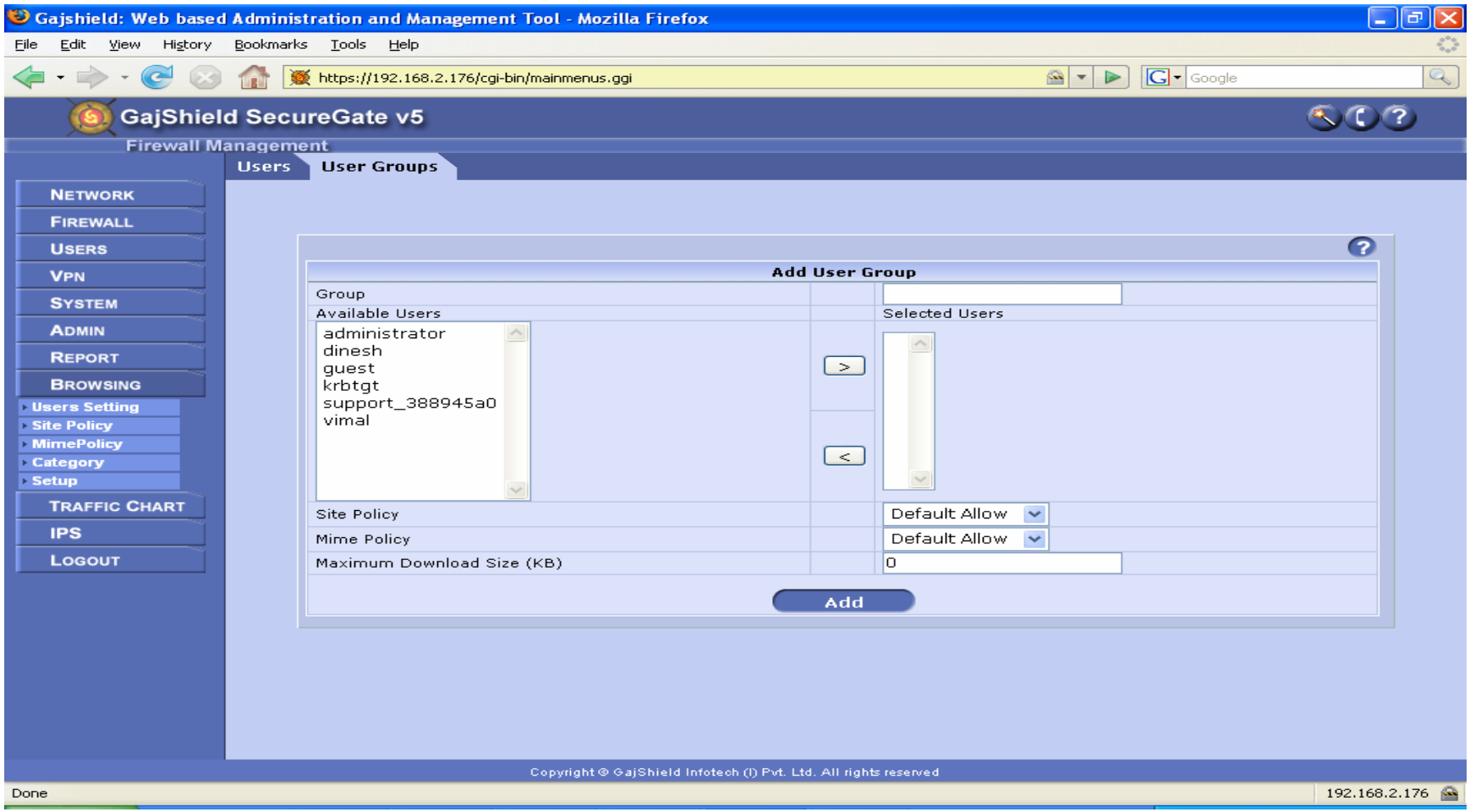
User Policies: Creating Users



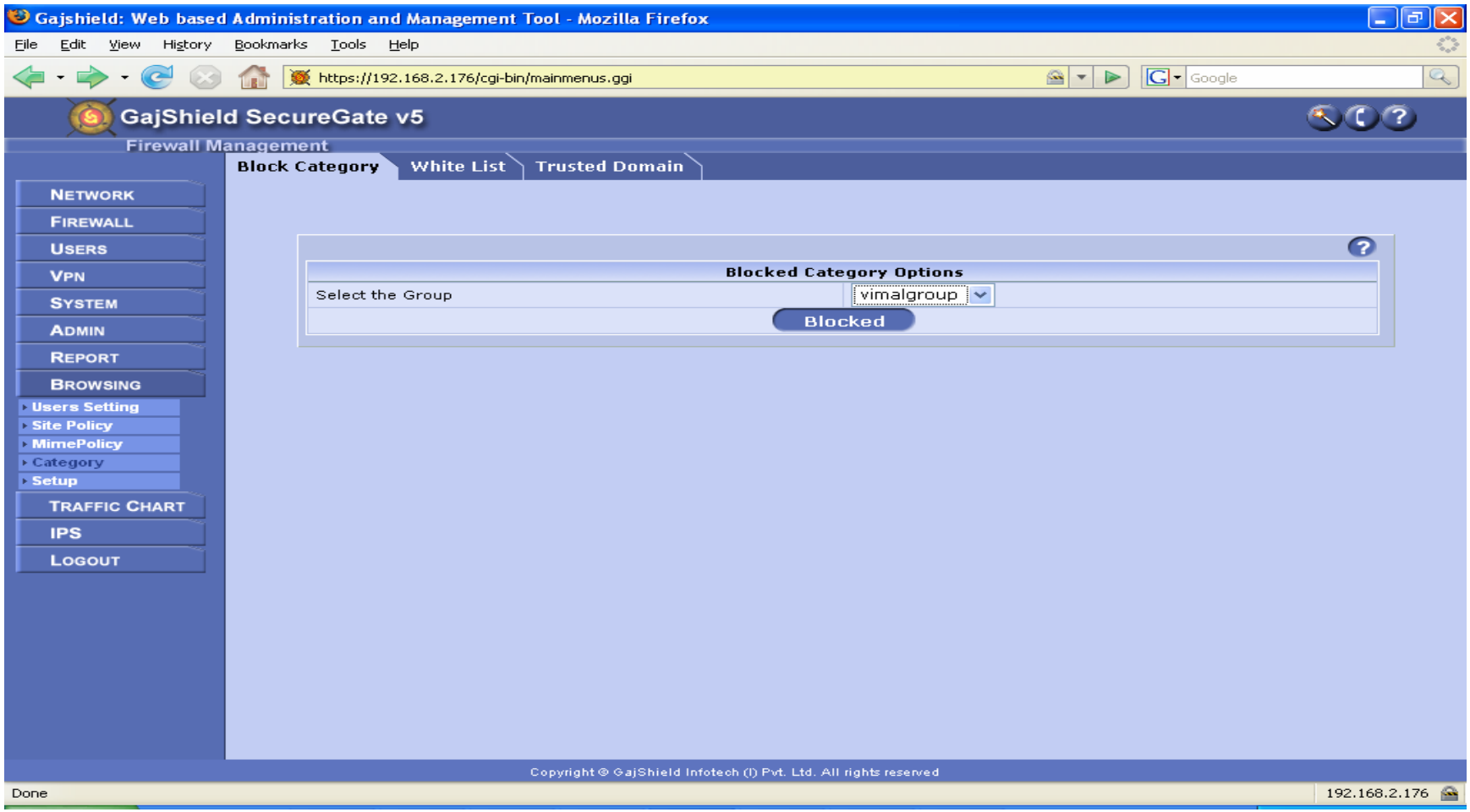
User Policies: User List



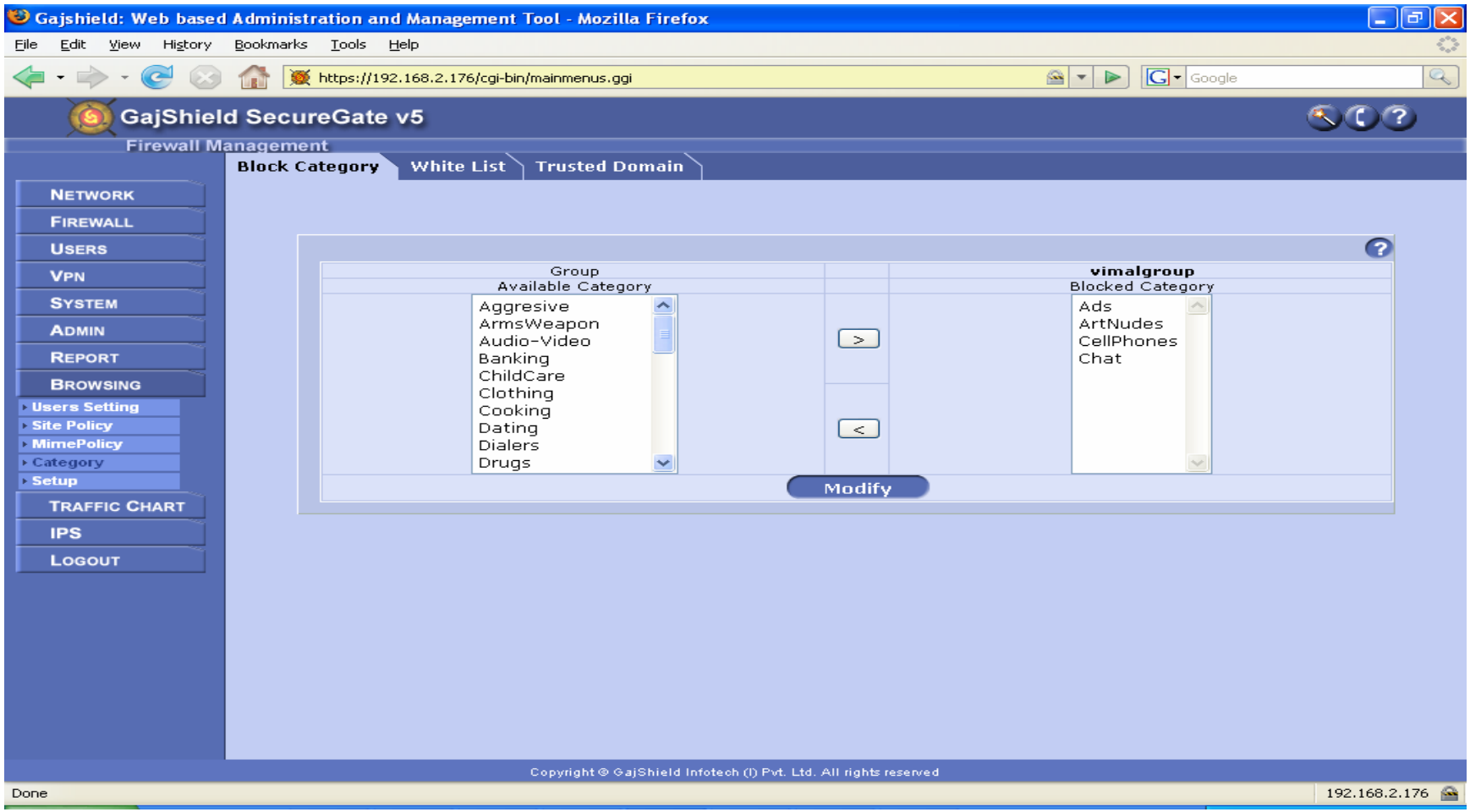
User Policies: User Groups



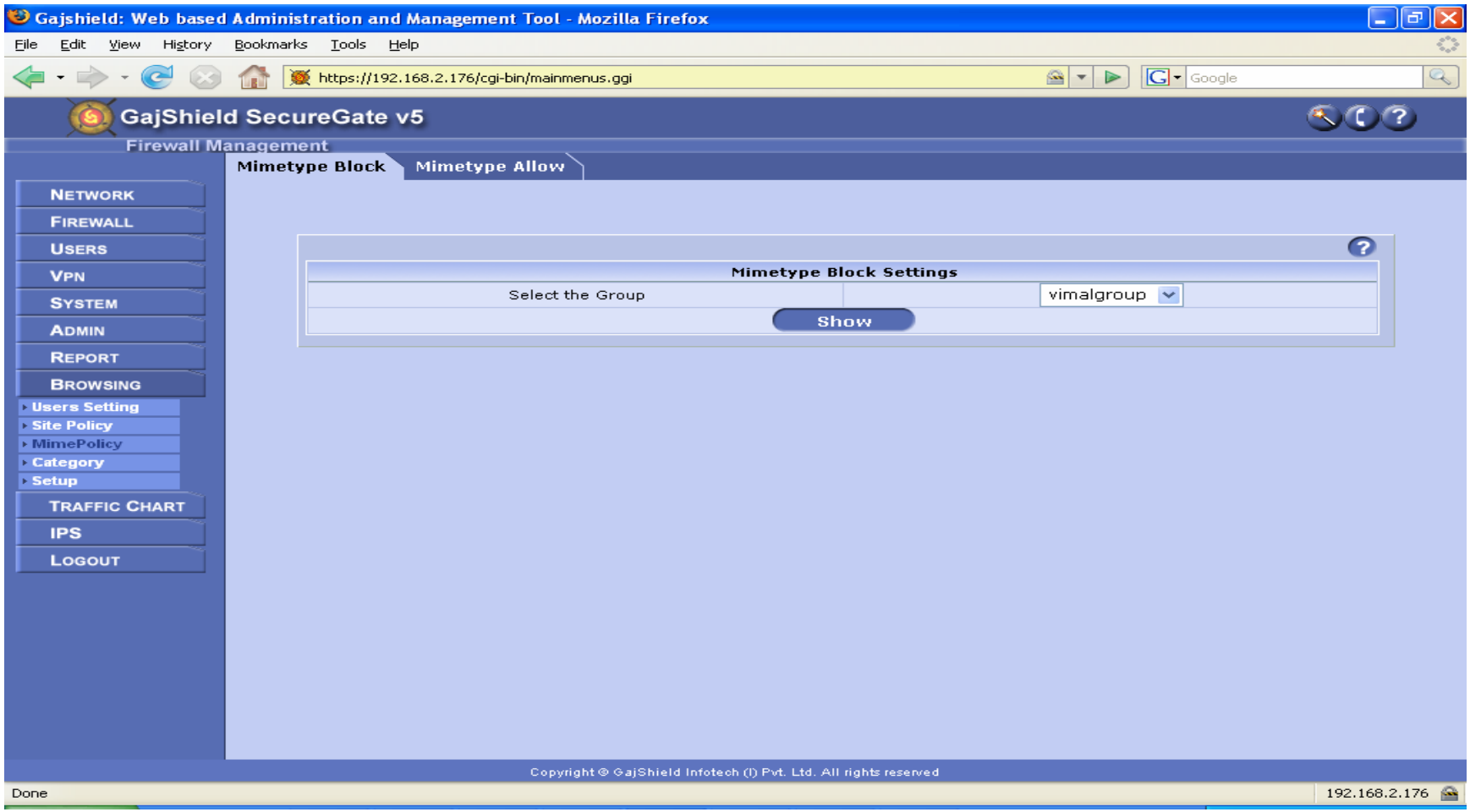
User Policies: Category Policy



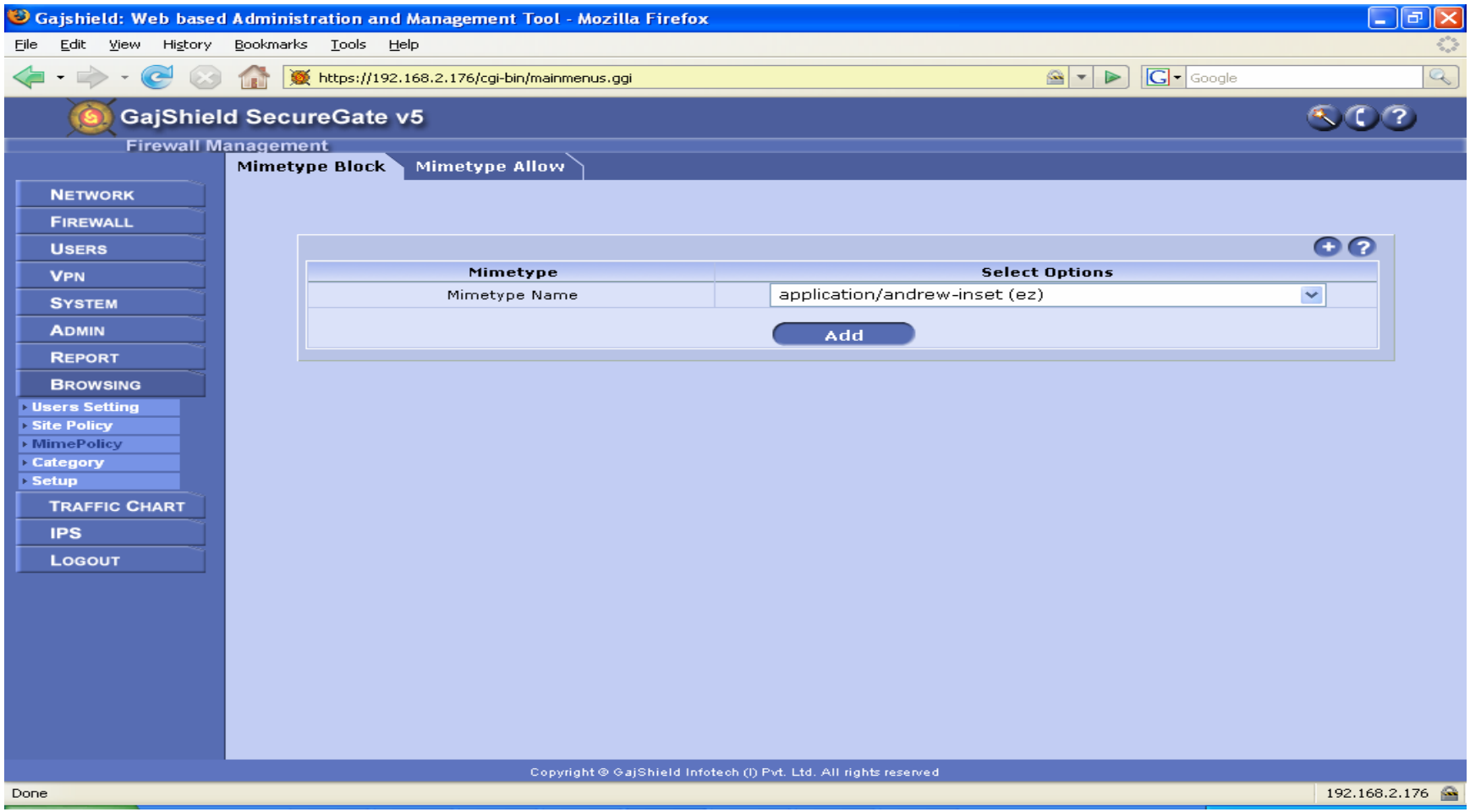
User Policies: Category Policy



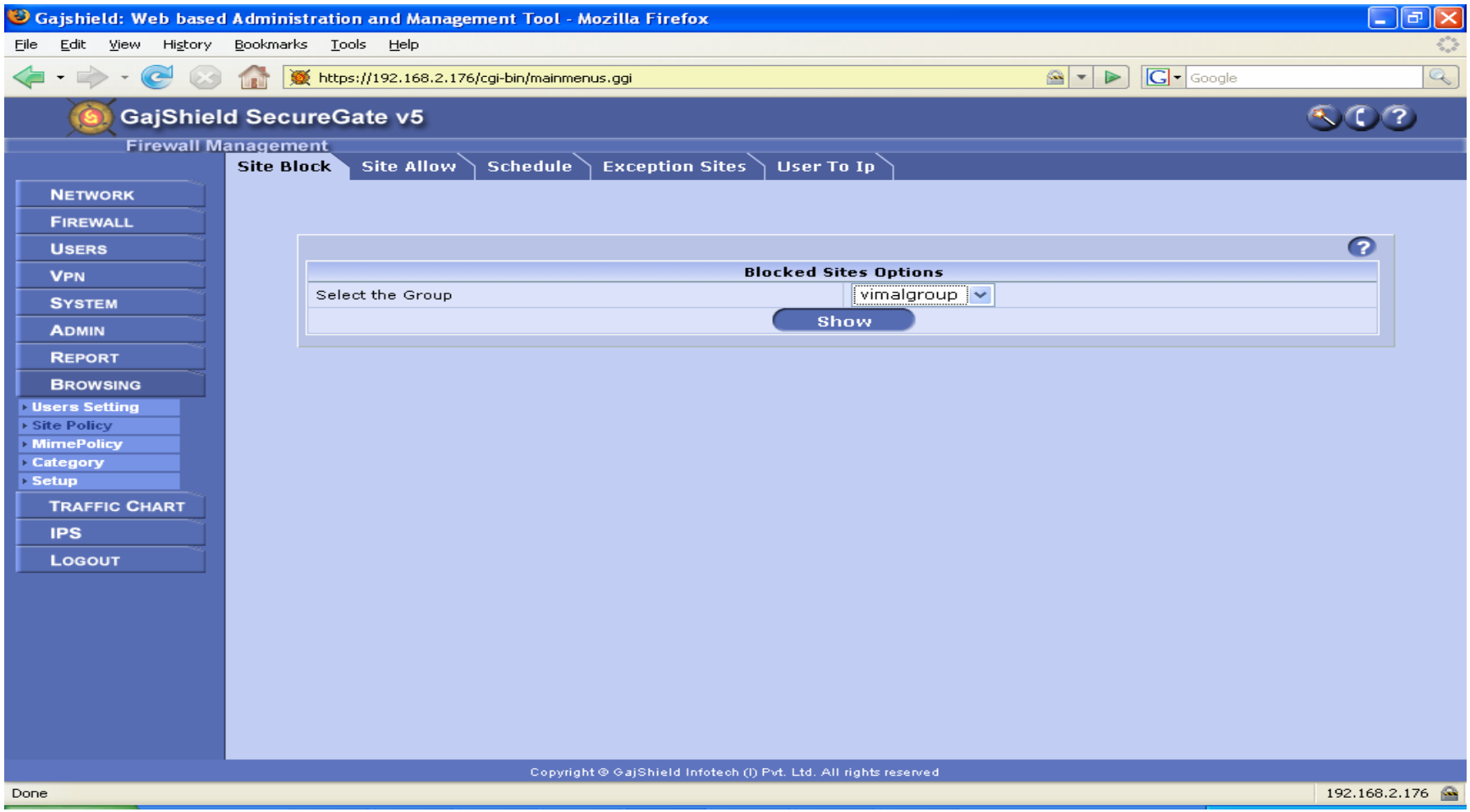
User Policies: Mime Policy



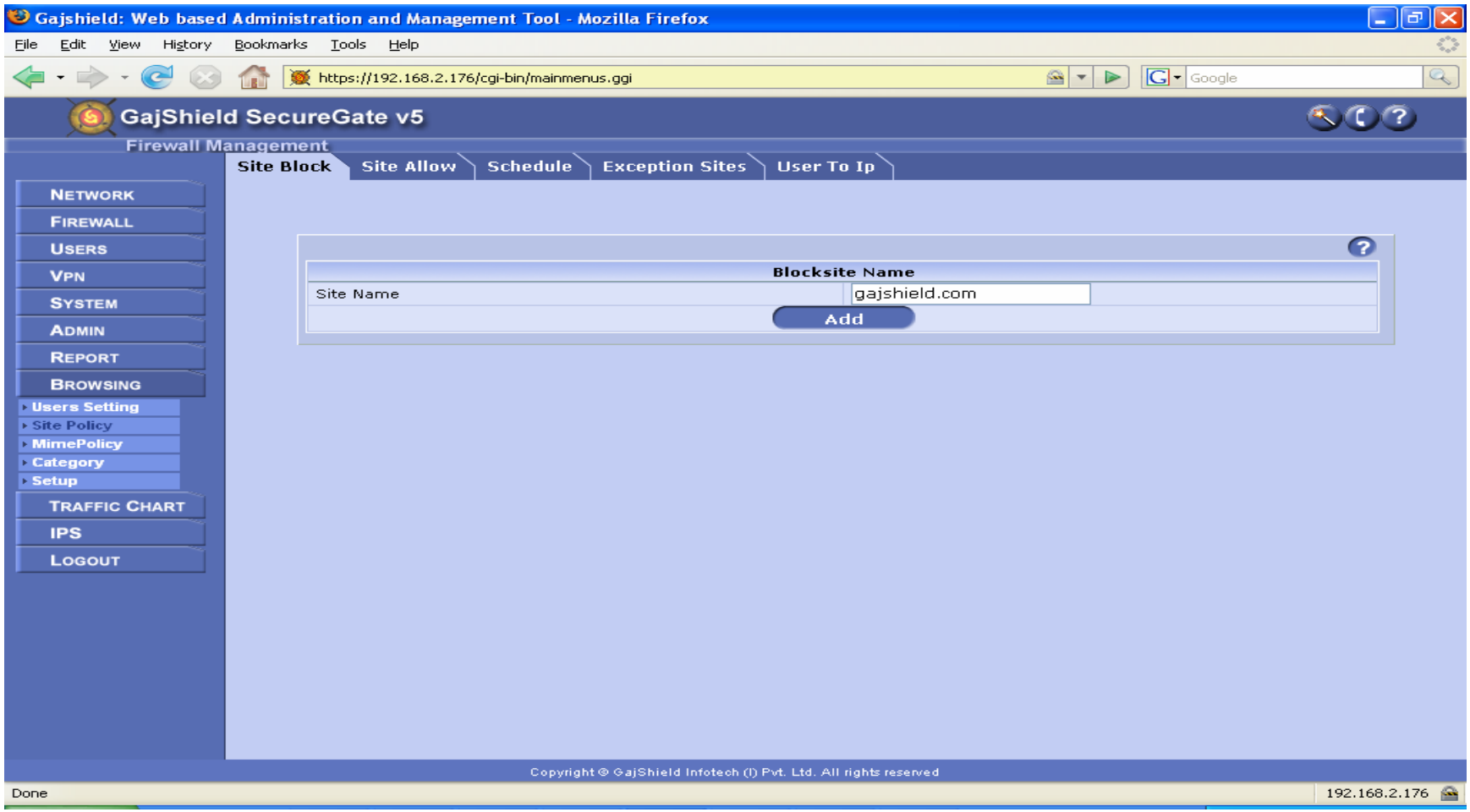
User Policies: Mime Policy



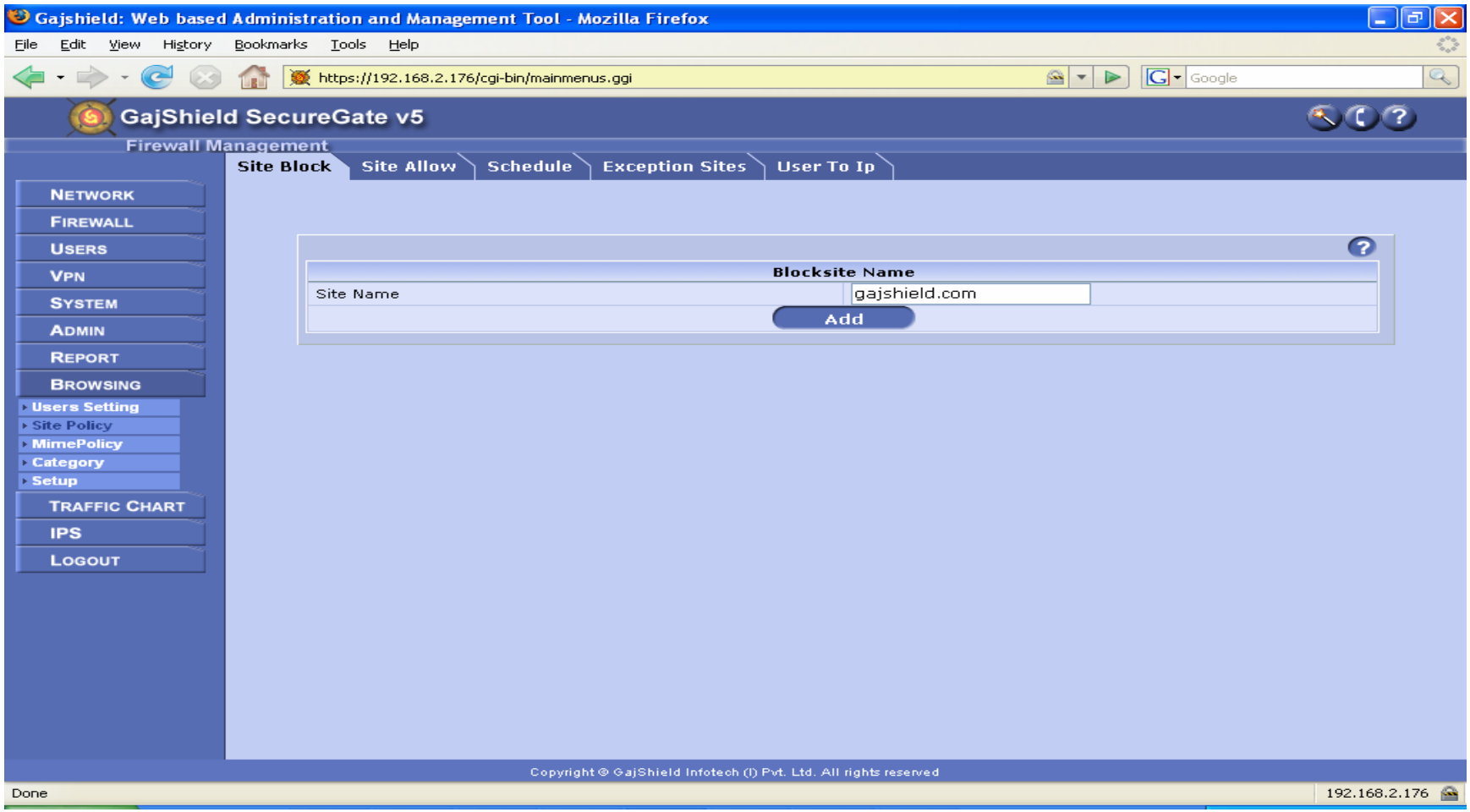
User Policies: Site Policy



User Policies: Site Policy



User Policies: Schedule



URL Filtering: Exercise

- Configure the GajShield UPTM in proxy mode. Run the proxy on 8080 port and enable local user authentication in it.
- Create the following users
  - Username=abc,Password=take1234,Firstname=AB,Lastname=C
  - Username=xyz,Password=take1234,Firstname=XY,Lastname=Z
  - Username=qwert,Password=take1234,Firstname=QW,Lastname=ERT

URL Filtering: Exercise

- Configure groups as follows
  - Sales with the following users abc,qwert with default site policy as ‘Default Allow’ and Mime policy as ‘Default Block’ and no download restrictions
  - BO with xyz with default site policy as ‘Default Block’ and Mime policy as ‘Default Allow’ and a restriction of download of 10MB
- Block the following categories for Sales
  - ArmsWeapon
  - ArtNudes
  - Chat

URL Filtering: Exercise

- Allow the following mime types for Sales
  - application/x-dosexec (exe)
  - application/pdf
- Block the following URLs for Sales
  - rediffmail.com
  - hotmail.com
- Allow BO to browse only between 9 am to 6 pm