

## User based authentication on FSSO, using LDAP and FSSO agent on advanced mode.

Applicable Firmware version: v5.0 and v5.2

### Requirements:

User based authentication required on FSSO, so different users get different profiles through policy. Need to integrate FortiGate with LDAP, install FSSO agent (with DC Agent) on the server with advanced mode and set user filter from FortiGate FSSO configuration using LDAP.

### Integrate FortiGate with LDAP:

The screenshot shows the 'Edit LDAP Server' configuration page in the FortiGate web interface. The left sidebar is expanded to 'User & Device' > 'Authentication' > 'LDAP Servers'. The main configuration area includes the following fields and options:

- Name: ldap
- Server IP/Name: 192.168.1.222
- Server Port: 389
- Common Name Identifier: sAMAccountName
- Distinguished Name: dc=chandru,dc=local
- Fetch DN: (button)
- Bind Type:  Simple  Anonymous  Regular
- User DN: administrator@chandru.local
- Password: (masked with dots)
- Secure Connection:
- Test: (button)
- OK: (button)
- Cancel: (button)

config user ldap

```
edit "ldap"
```

```
set server "192.168.1.222"
```

```
set cnid "sAMAccountName"
```

```
set dn "dc=chandru,dc=local"
```

```
set type regular
```

```
set username "administrator@chandru.local"
```

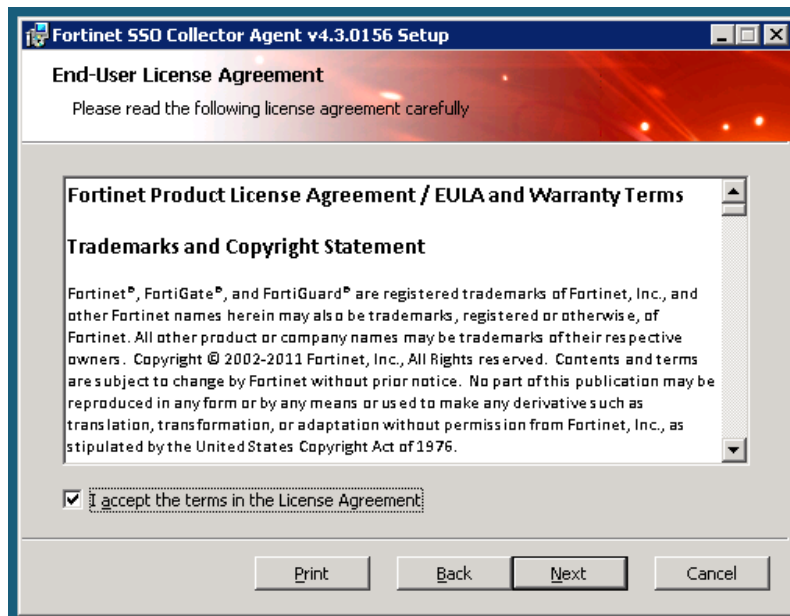
```
set password XYZ
```

```
next
```

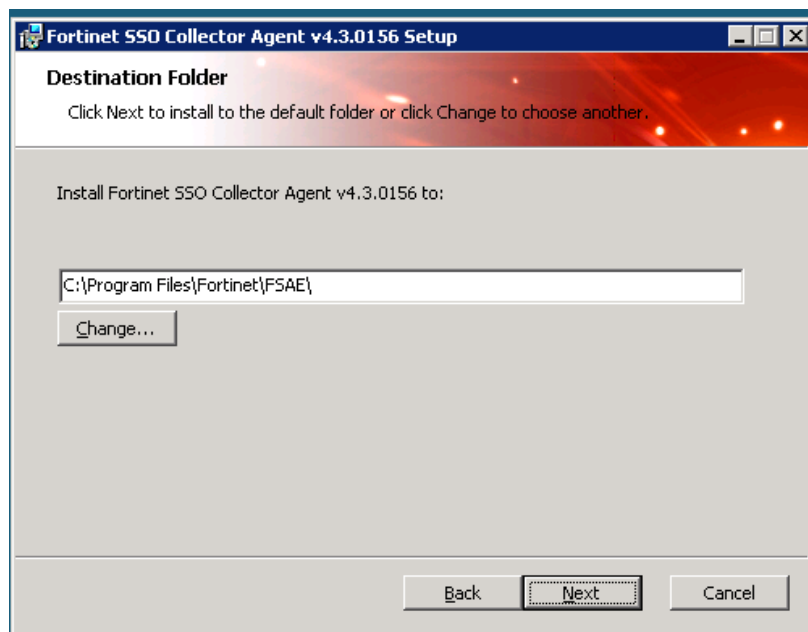
```
end
```

Install FSSO agent on the Server on Advanced mode:

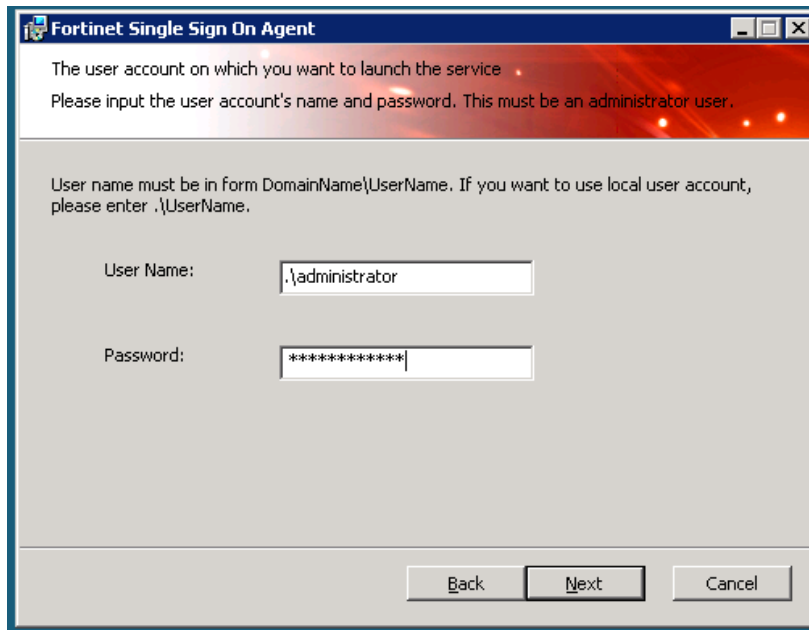
1) Accept the agreement.



2) Change the location if you require, however make sure you have the default location :

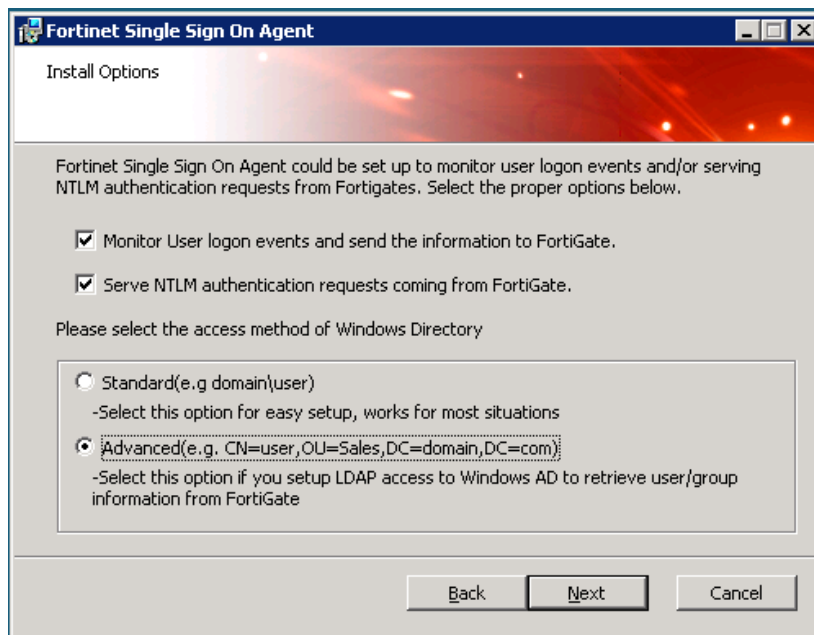


### 3) Enter the domain admin credentials



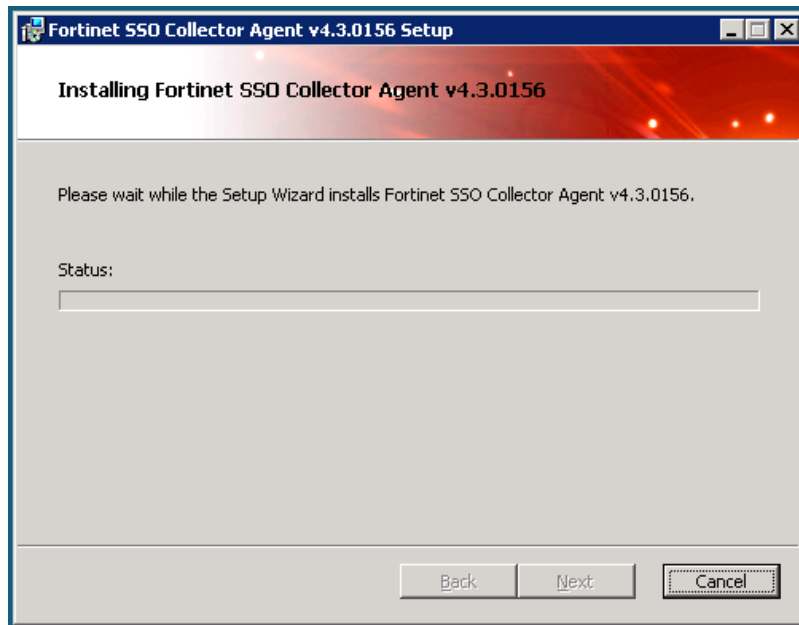
The screenshot shows the 'Fortinet Single Sign On Agent' installation window. The title bar reads 'Fortinet Single Sign On Agent'. The main content area has a red header with the text: 'The user account on which you want to launch the service. Please input the user account's name and password. This must be an administrator user.' Below this, a grey box contains the instruction: 'User name must be in form DomainName\UserName. If you want to use local user account, please enter .\UserName.' There are two input fields: 'User Name:' with the text '.\administrator' and 'Password:' with masked characters '\*\*\*\*\*'. At the bottom, there are three buttons: 'Back', 'Next', and 'Cancel'.

### 4) Select the Advanced Mode

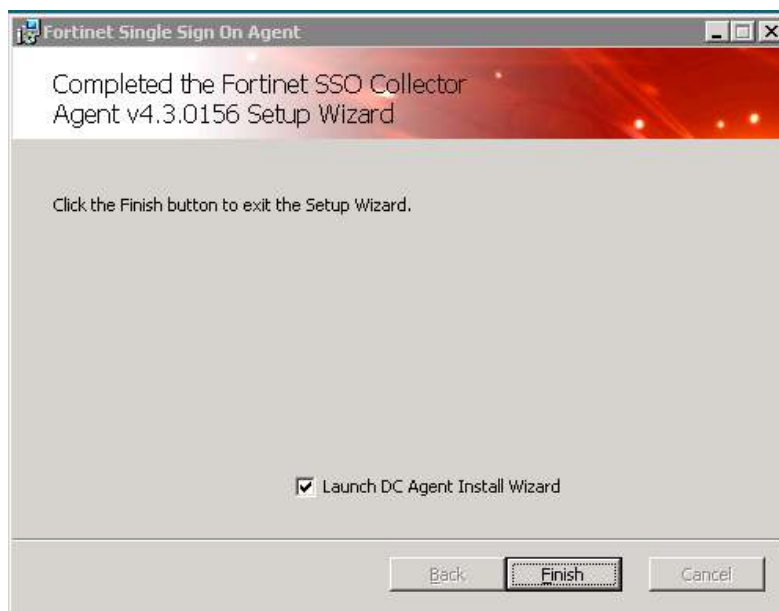


The screenshot shows the 'Fortinet Single Sign On Agent' installation window at the 'Install Options' step. The title bar reads 'Fortinet Single Sign On Agent'. The main content area has a red header with the text: 'Install Options'. Below this, a grey box contains the text: 'Fortinet Single Sign On Agent could be set up to monitor user logon events and/or serving NTLM authentication requests from Fortigates. Select the proper options below.' There are two checked checkboxes: 'Monitor User logon events and send the information to FortiGate.' and 'Serve NTLM authentication requests coming from FortiGate.' Below this, the text says: 'Please select the access method of Windows Directory'. There are two radio button options: 'Standard(e.g domain\user)' with the subtext '-Select this option for easy setup, works for most situations' and 'Advanced(e.g. CN=user,OU=Sales,DC=domain,DC=com):' with the subtext '-Select this option if you setup LDAP access to Windows AD to retrieve user/group information from FortiGate'. At the bottom, there are three buttons: 'Back', 'Next', and 'Cancel'.

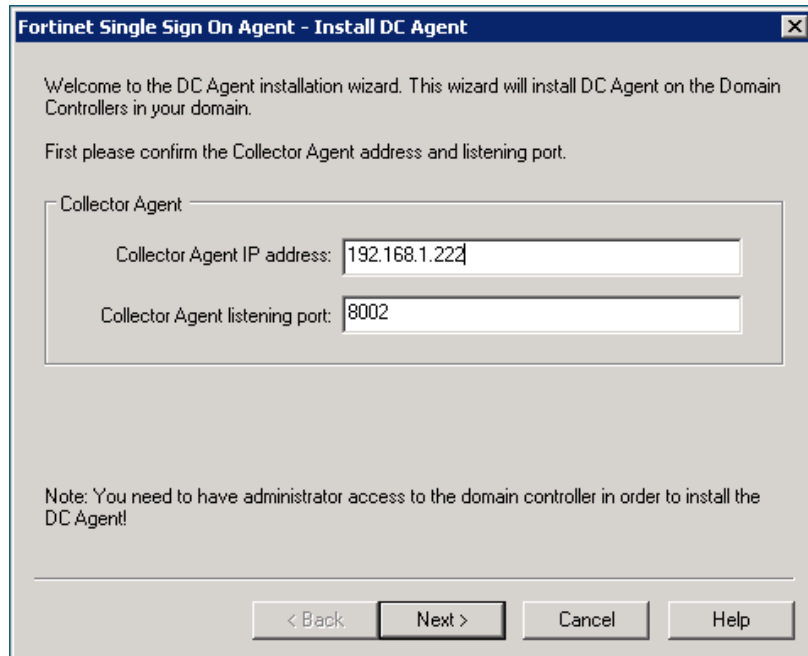
5) Proceed to next to install the Agent



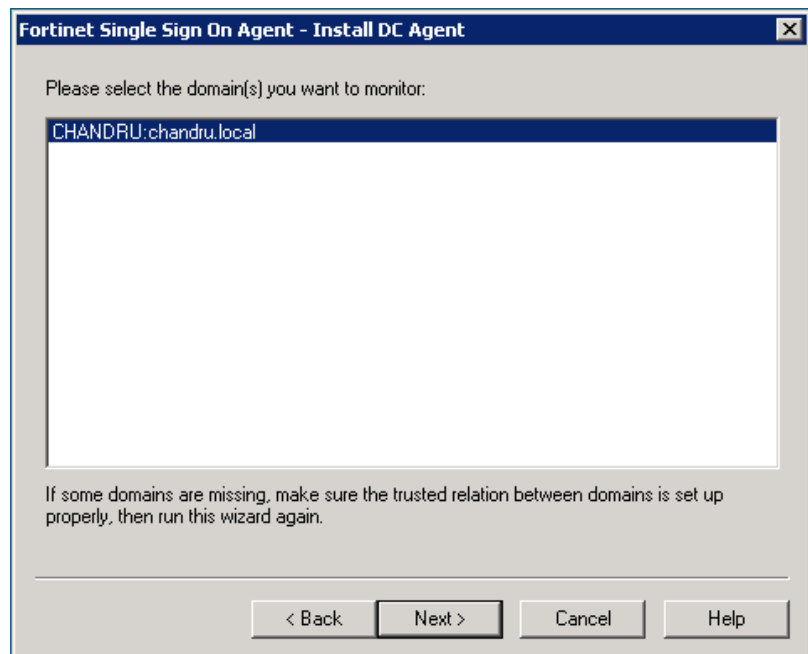
6) Install the DC Agent when it tries to launch



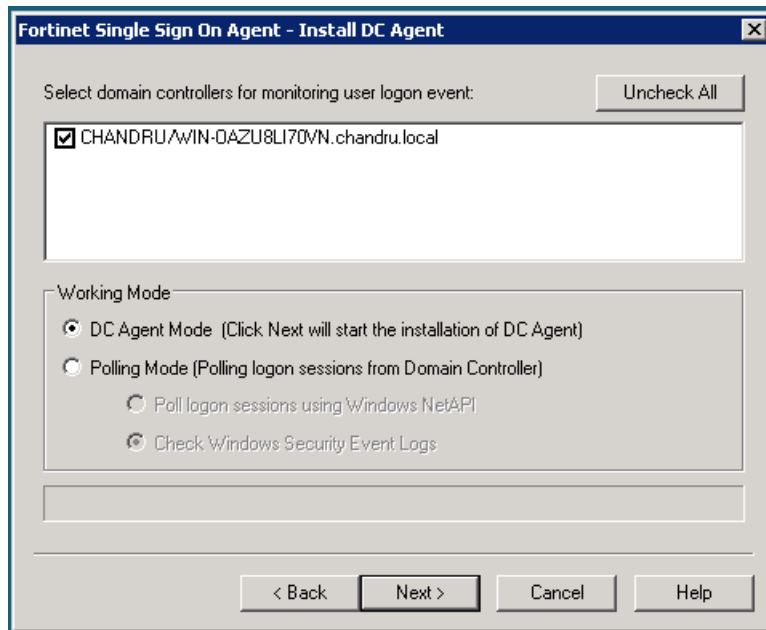
7) You need to specify the Collector agent which the DC agent will talk to, if this is the same server, then leave the default



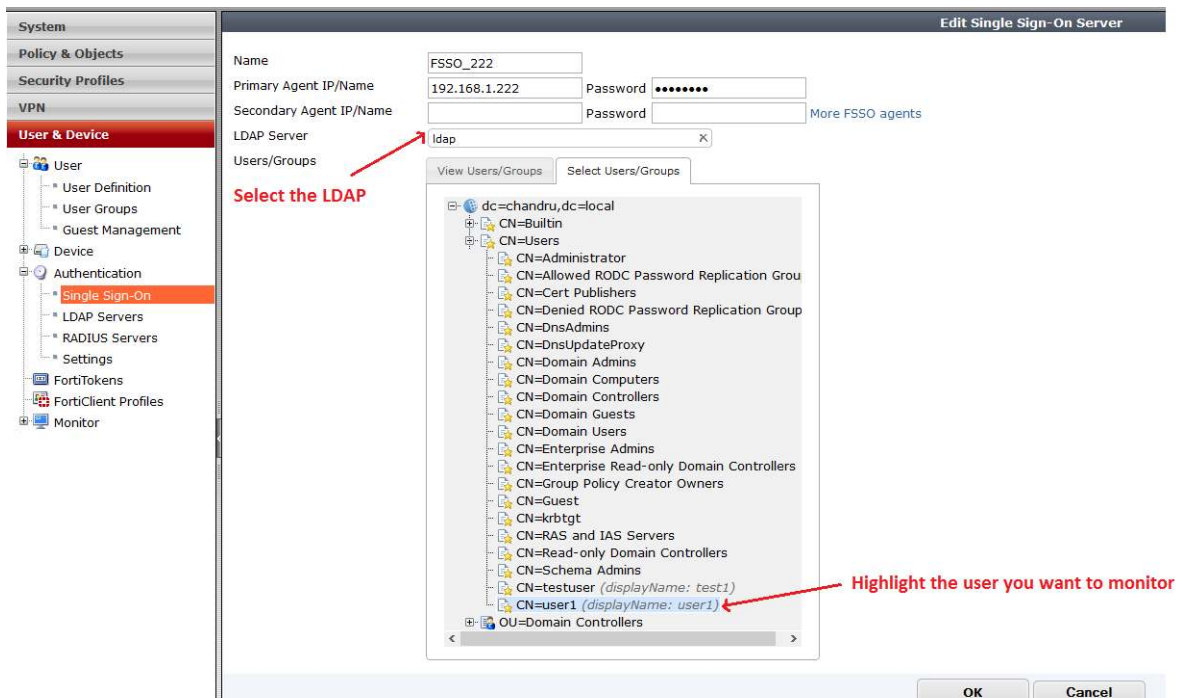
8) Select the Domain to monitor and click Next



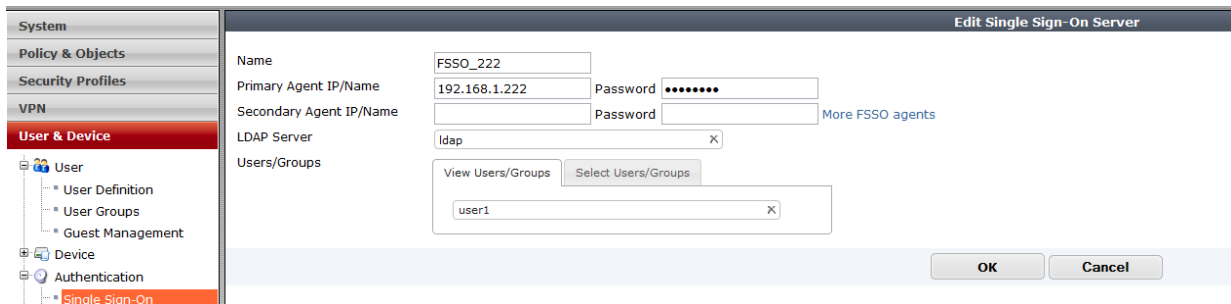
9) In the Domain to monitor, select the DC Agent mode



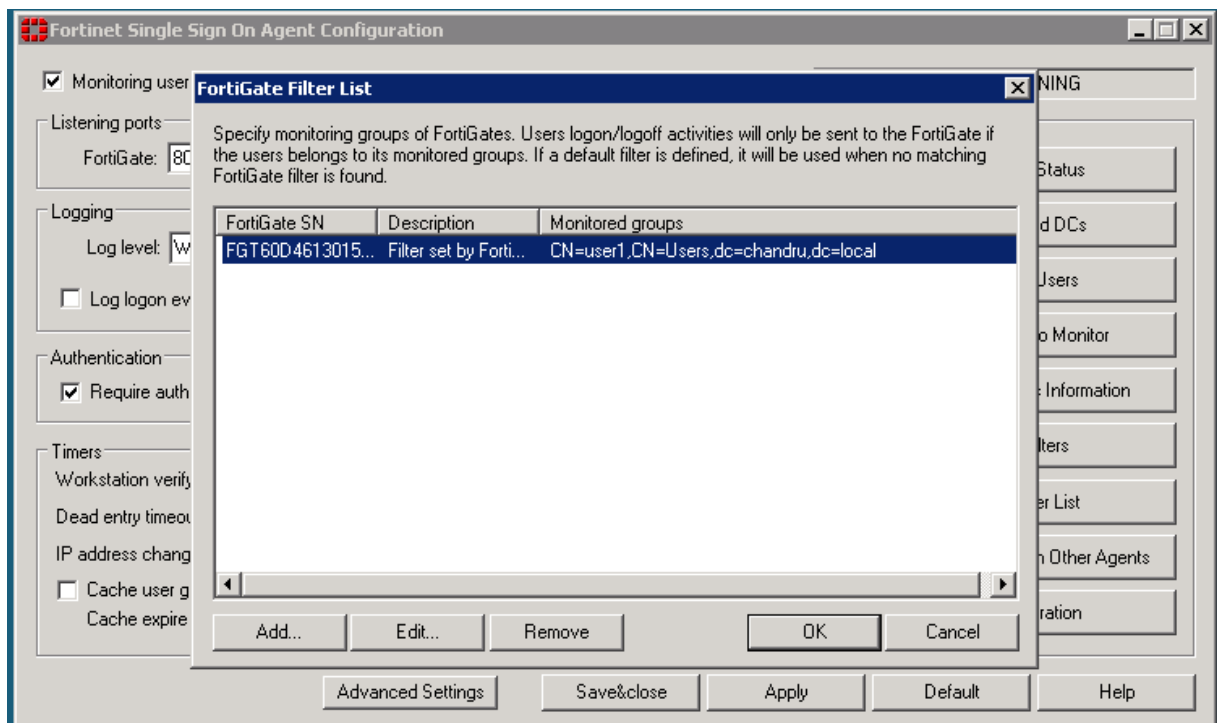
Once the FSSO agent with DC agent is installed successfully, configure FortiGate FSSO by selecting LDAP server to filter the users



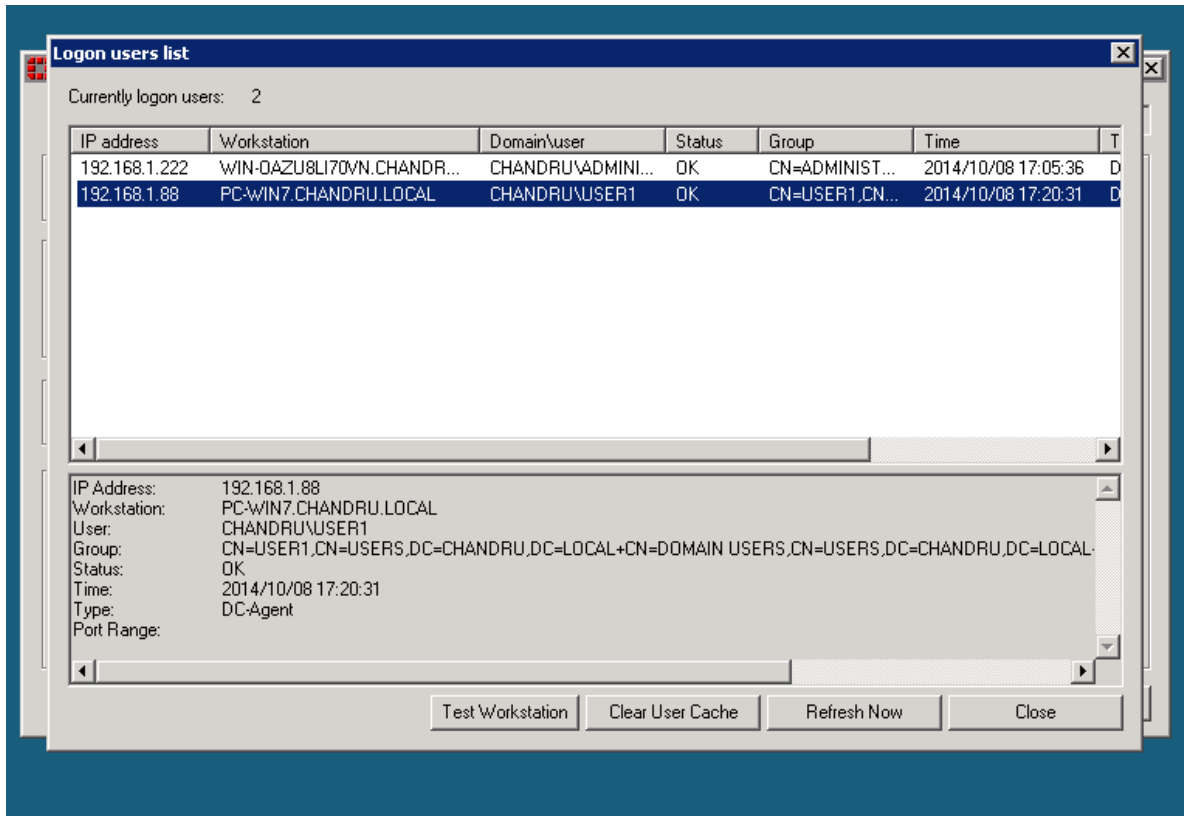
Once you select the user and click OK, you will see the user will be available



The same user will be reflecting on the FSSO agent once it synchronizes



Domain workstation logged into the domain and created logon event on DC, the same information available on FSSO agent logon user list



On FortiGate you can see the same user:

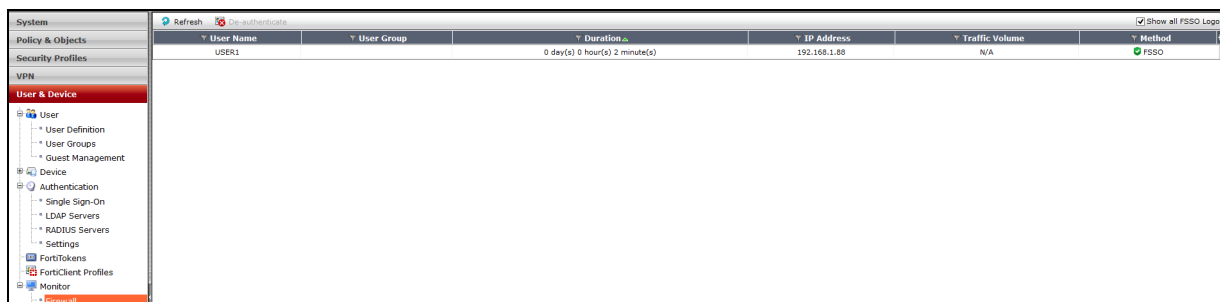
FGT60D4613015643 # diagnose debug authd fssolist

----FSSO logons----

IP: 192.168.1.88 User: USER1 Groups: CN=USER1,CN=USERS,DC=CHANDRU,DC=LOCAL Workstation: PC-WIN7.CHANDRU.LOCAL

Total number of logons listed: 1, filtered: 0

----end of FSSO logons----





## Create group on FortiGate and add the user1 to the group to authenticate to the policy

**New User Group**

Name:

Type:  Firewall  Fortinet Single Sign-On (FSSO)  Guest  RADIUS Single Sign-On (RSSO)

Members:  X

**Edit Policy**

Incoming Interface:

Source Address:

Source User(s):

Source Device Type:

Outgoing Interface:

Destination Address:

Schedule:

Service:

Action:

**Firewall / Network Options**

NAT

Use Outgoing Interface Address  Fixed Port

Use Dynamic IP Pool

**Security Profiles**

AntiVirus

Web Filter

Application Control

IPS

Email Filter

DLP Sensor

Proxy Options:

SSL Inspection

**Traffic Shaping**

Shared Shaper

Reverse Shaper

Per-IP Shaper

**Logging Options**

Log Allowed Traffic

## Sample Web Filter logs for the user

#	Date/Time	User	Source	Action	URL	Category	Description	Initiator	Sent / Received
1	05:06:24	USER1	USER1 (192.168.1.88)	blocked	www.miniclip.com/favicon.ico				287 B / 0 B
2	05:06:24	USER1	USER1 (192.168.1.88)	blocked	www.miniclip.com/				607 B / 0 B