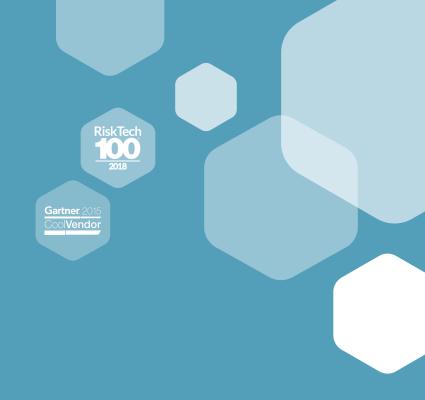




Tonny Kibet April 2019, Nairobi, Kenya





Summary

Introduction

- Core Concepts and Terms
- Admin Console

Configuration



Introduction





NG | Auth - Introduction

- Single Sign On solution (SSO) for NG | Screener suite
- Customizable user interfaces for
 - Login
 - Registration
 - Administration
 - Account management
- Integration with existing LDAP and Active Directory servers



Core Concepts and Terms





Core Concepts and Terms

- Users (entities able to log in the system)
- Authentication (the process of identifying and validating a user)
- Authorization (the process of granting access to a user)
- Credentials

Roles



Core Concepts and Terms

- User Role Mapping (mapping between a role and a user)
- Groups (management of users)
- Realms (manages a set of users, credentials, roles and groups)

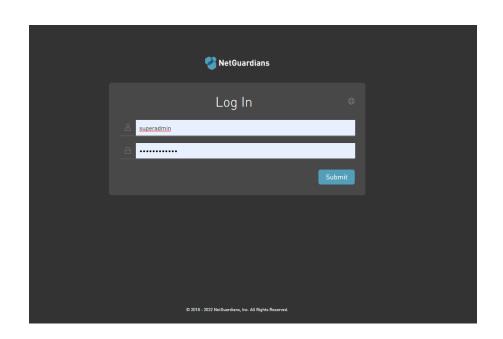


Access NG | Auth

URL: https://myhost/auth/admin/

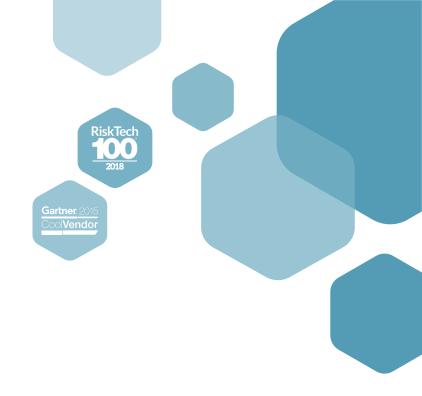
User: superadmin

Password: netguardians









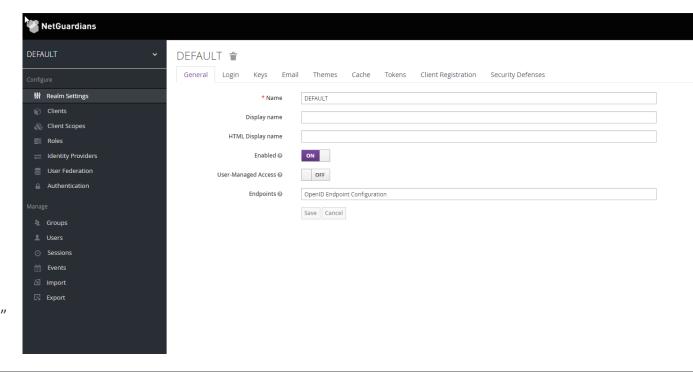


Admin Console

Most of the user administration tasks will be done through the Admin Console.

- LEFT MENU
 - Pick and manage a realm
 - Create a realm
- RIGHT drop down menu
 - View user account
 - Logout
- TIP
 - Hover the mouse over any "?"

icon to see the description











Create a new Realm

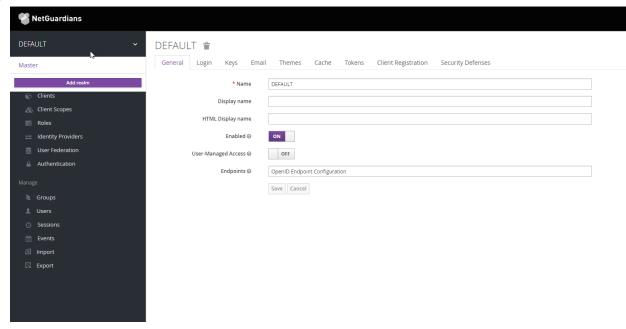
Using the script /usr/local/ngscreener/tools/multi-tenancy/createTenant.py.

./createTenant.py -t MYNEWTENANT -u superadmin -p netguardians -url https://mytenanturl.mycompany.com/auth/

NOTE: Using the script is the preferable method to using the UI

Configuration:

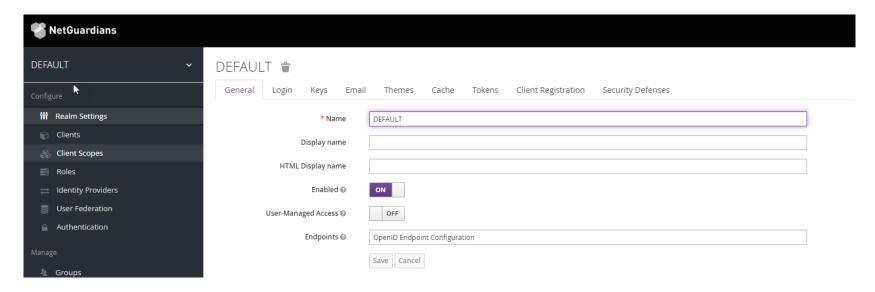
- A Realm corresponds to the Tenant Created in NG | Screener.
- This allows Multi-Tenancy authentication to be done in once instance.
- 1 Tenant in ng|screener = 1 Realm in NG|Auth







Create a new Realm



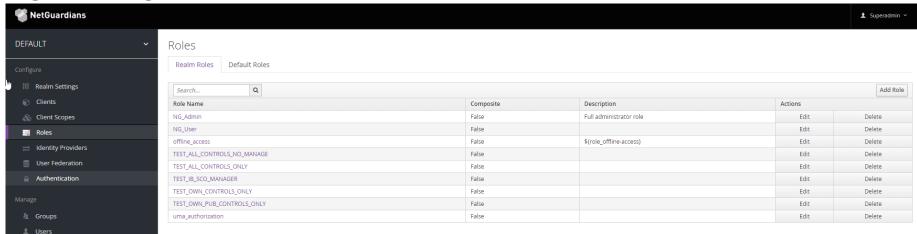
- After creating the realm you are brought back to the main Admin Console page.
- The current realm will now be set to the realm you just created



Create a new Role (1/2)

A role in NG | Auth is a global namespace. Functionalities defined in ngBrowser or

ngCaseManager



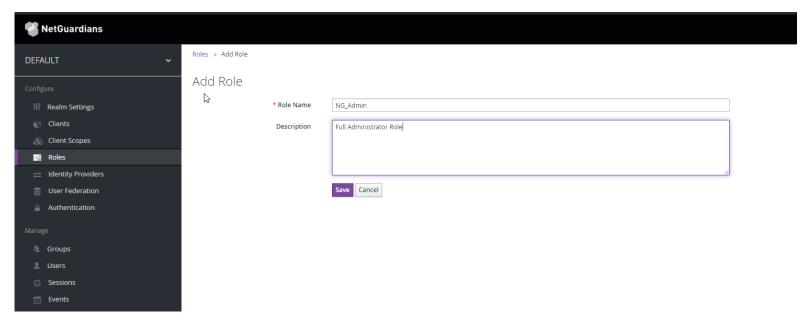
To create a role, click Add Role on this page, enter in the name and description of the role, and

Save.





Create a new Role (2/2)



Roles can also be created using a script

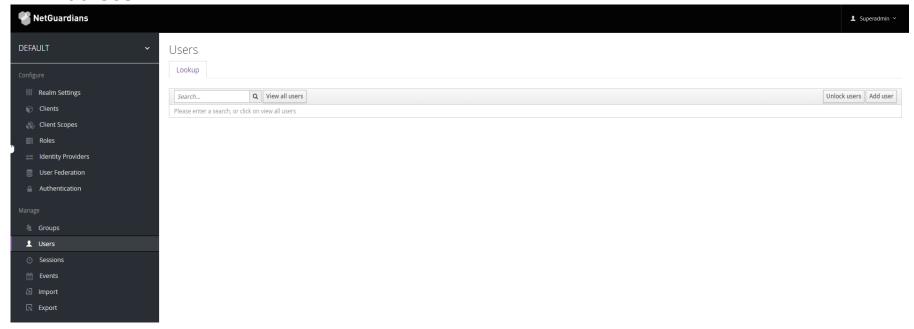
/usr/local/ngscreener/tools/auth/createRoleKeycloak.py





Create a new User

- After selecting the right tenant, click on Users in the left menu bar
- Add User

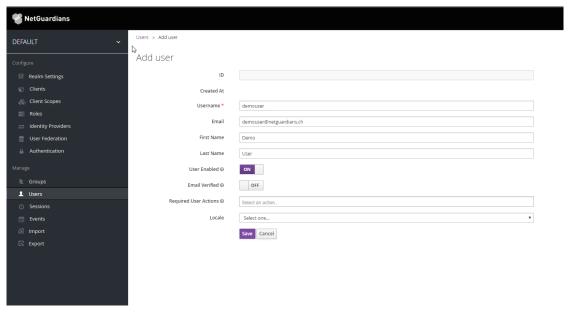






Create a new User

■ Input Username then save → management page for your new user



Or by script

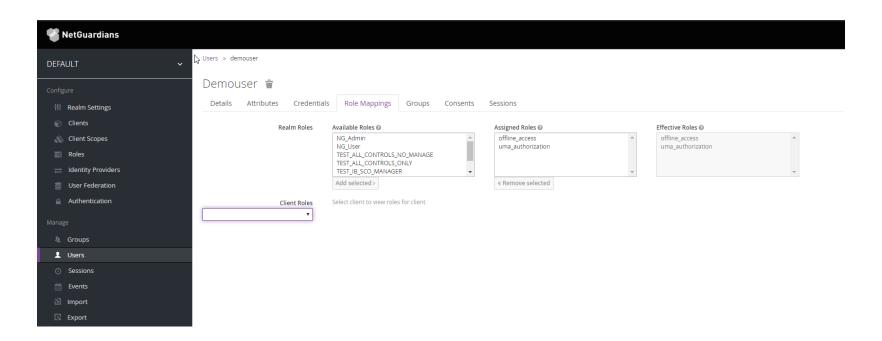
/usr/local/ngscreener/tools/auth/createUserKeycloak.py





User Role Mappings

Can be assigned individually to each user through the Role Mappings tab

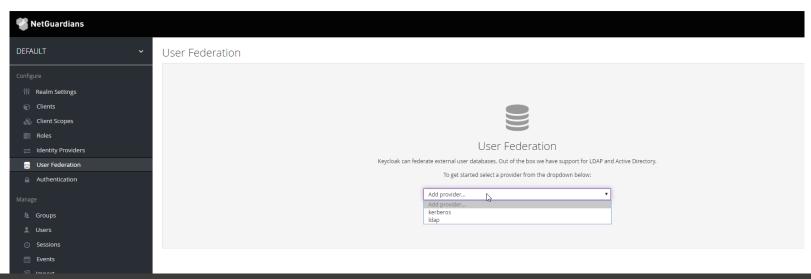






User Federation (Adding a Provider) LDAP

- To add a storage provider go to the User Federation left menu item in the Admin Console
- Add Provider list box. Choose the provider type you want to add and you will be brought to the configuration page of that provider

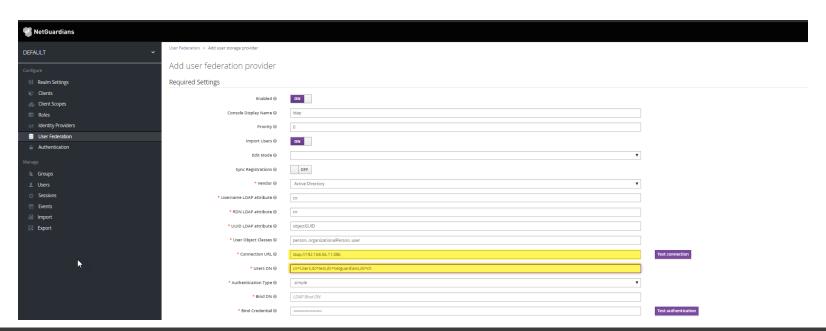






How to setup a new LDAP connection

• Click on the "User Federation" left menu to access the Federation part. Then choose Idap to create a new connection. Then fill the required fields to get the connection working:

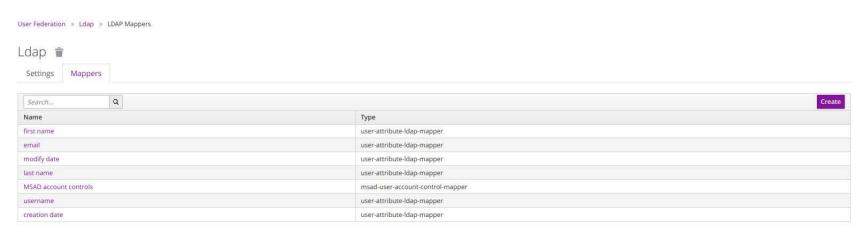






How to setup a new LDAP connection

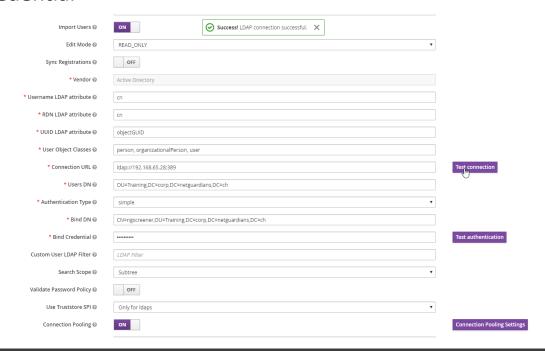
- After saving, it's time to configure some mappers to map data from LDAP to the NG|Auth data model
- ROLE_MAPPER to map some ROLE from the LDAP server with LDAP users
- Use Mapers tab → Create





How to setup a new LDAP connection

 Test connections once you enter both the Connection URL and Users DN, Bind DN and Bind Credential



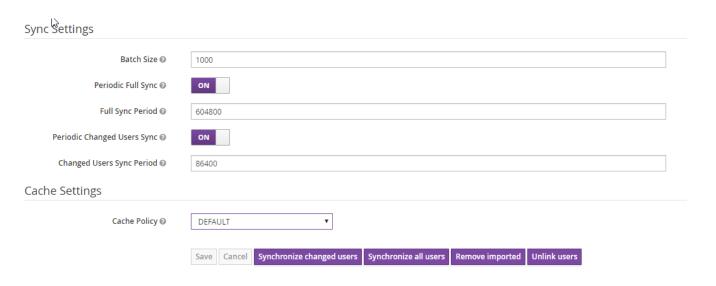




Sync of LDAP users to NG | Auth

- If user import is enabled, the LDAP Provider will automatically take care of synchronization
- Sync all LDAP users into the NG|Auth database → configure and enable the Sync

Settings







Sync of LDAP users to NG | Auth

- Once you save all Ldap setting and ensure all connections are tested, synch all users.
- Go to the Users tab and click on View all users you will be able to see all users imported.

Users							
Lookup							
Search Q View	v all users						Unlock users Add user
ID	Username	Email	Last Name	First Name	Actions		
db607361-2f00-4ef7-9da0-66a62c3b	admin			Administrator	Edit	Impersonate	Delete
292efe47-56cb-4980-b422-52a1f7af	demouser	demouser@netguardians.ch	User	Demo	Edit	Impersonate	Delete
02f2fdb8-0273-4363-b70e-82de869	ngscreener			ngscreener	Edit	Impersonate	Delete
3a2848ef-1863-4f58-809c-d142ab38	testallcontrols			testallcontrols	Edit	Impersonate	Delete
c3d5dd98-a244-4aa4-8ac6-3f4f290b	testallcontrolsnomanage			testallcontrolsnomanage	Edit	Impersonate	Delete
f92d709b-3e47-4a76-973d-13cb54c	testibscomanager			testibscomanager	Edit	Impersonate	Delete
7dd00d71-62d0-4339-a608-2eb1fc3	testowncontrols			testowncontrols	Edit	Impersonate	Delete
72adc73b-2ba3-42da-b646-12c7dc0	testownpubcontrols			testownpubcontrols	Edit	Impersonate	Delete
0ace4168-18e2-4288-b3aa-f725f54b	training1	training1@corp.netguardians.ch	1	training1	Edit	Impersonate	Delete
031c1d1a-d7bf-45db-969b-c177280	training2	training2@corp.netguardians.ch	2	training2	Edit	Impersonate	Delete
6d833144-872a-4942-a257-d2c985e	training3	training3@corp.netguardians.ch	3	training3	Edit	Impersonate	Delete
3737ee21-7e03-4a6c-a20e-aa96b8e	training_admin1	training_admin1@corp.netguardian	Admin1	training_admin1	Edit	Impersonate	Delete
f828aaad-2f9b-4e4e-ac1c-900ae7b5	training_admin2	training_admin2@corp.netguardian	Admin2	training_admin2	Edit	Impersonate	Delete
329ced58-3eef-4289-a06d-d659135	user			user	Edit	Impersonate	Delete



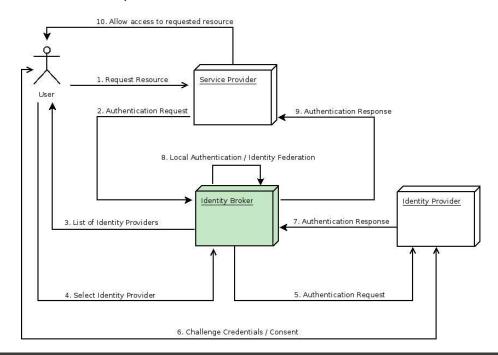
Password Hashing

- When the password of user is updated from NG|Auth and sent to LDAP, it is always sent in plain-text
- In the case of LDAP, the NG|Auth relies on the LDAP server to provide hashing and salting of passwords
- Most of LDAP servers (Microsoft Active Directory, RHDS, FreeIPA) provide this by default.
- Some others (OpenLDAP, ApacheDS) may store the passwords in plain-text by default and one may need to explicitly enable password hashing for them



Identity Brokering

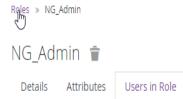
Identity Broker is an intermediary service that connects multiple service providers with different identity
 providers creating a trust relationship





User Management

- Role mapping
 - NG | Auth also associates roles to each user.
 - Roles are only plain names at NG | Auth level
 - Default role: NG_Admin.



Username	Last Name	First Name	Email	
ngscreener		ngscreener		Edit
admin		Administrator		Edit



User Management

- Each application using NG|Auth should provide mappings of functionalities with the role names
 - I.e. the names of the roles in NG|screener have to find the corresponding name in NG|Auth

- Scripts for create roles and users (2 scripts in the following folder)
 - /usr/local/ng-screener/tools/auth



User Management

Multi-tenant installation

NG|Screener is always installed in multi-tenant mode, which enables each and every login to be contextual to one tenant (= one of the hosted banks or specific bank internal unit) and, as such, isolated from the other tenants.

```
This is configured in the /etc/ng-screener/common/ng-screener.conf configuration file, through the following property:
#-------
# Multi-Tenancy
# List of tenants, must be in Upper case. Must not be empty.
# Example: multiTenancy.tenants = TENANT1,TENANT2,TENANT3
multiTenancy.tenants = DEFAULT
```



Thank you!

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