Security

Logins

Created at the instance level

Logins can be given rights to instance-wide rights

Can be added to fixed and user defined roles

Need to have public!

Users

Created within databases

Typically mapped to logins

(Could be created without)

Rights within a database are granted to USERS

Starting in 2012 a user can have password (without a login) (contained user)

Creating a Login

CREATE LOGIN or GUI

SQL Server Logins

Local to Instance – password not tied to windows accounts

Can set policies for expiration, password changes, etc…

Windows Logins

Windows Users

Domain Groups

Local Groups

Security -> Logins – Rt Click -> New Login

Windows or SQL Server

Password Policies

Default database

Will generate T-SQL

Run script and examine login properties

LOGINS are NOT USERS

Fixed **Server** Roles

Each role fits a specific task(s)

bulkadmin – dbcreator – diskadmin – processadmin – public – securityadmin

serveradmin – setupadmin - sysadmin

Grant use of these roles very carefully

Especially sysadmin and securityadmin

bulkadmin - Bulk insert data – nothing else (used to use sysadmin for this - dangerous)

dbcreator – members can create databases within the instance -they will own those DBs

diskadmin – members can manage database files

processadmin – can kill running processes and view other user processes

public – no permissions other than access to the server – ALL USERS HAVE THIS ROLE

if all users need something, do it here, but better to create another role for these things

**securityadmin** – can modify logins and their properties

can modify server level permissions

can reset passwords

PROTECT like sysadmin

serveradmin – can change server-wide settings, shut down the server

setupadmin – can and and remove linked servers

**sysadmin** – can do anything – can’t stop them from doing anything

User Defined **Server** Roles

Allow for additional server wide roles (like those above)

Any server-wide permission can be granted to these roles

Can be nested in fixed server roles and vice-versa

Right Click Security folder – Select ‘New Server Role’

Give it a name – ‘NEWBIES’

Click and select the server in securables

Permision – bulk insert – modify databases – view server state – view any

Look at the script – run it – look at the new server role in object explorer

Click on Members – browse and add a user to the role