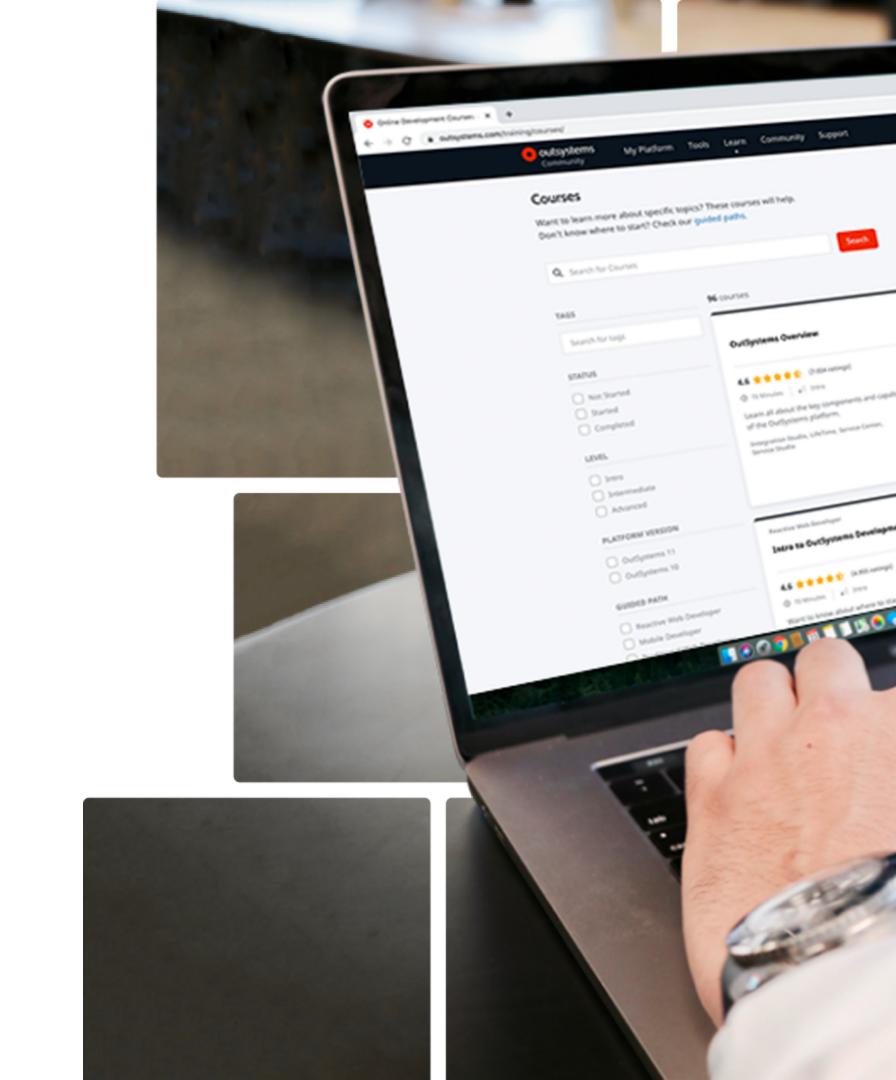


Role-based Security

Access Control

Users and Roles

Checking Permissions



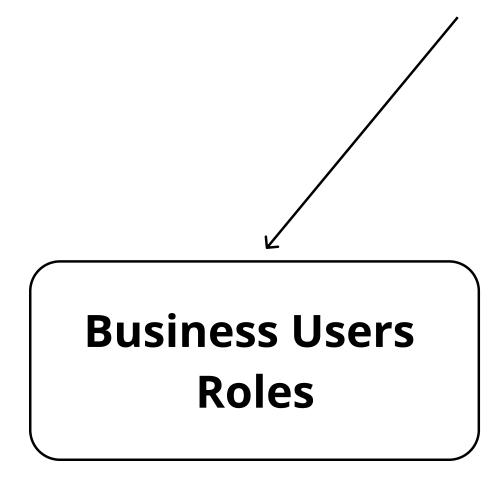
What is Access Control?

Access control determines and enforces who can do what.



What is Access Control?

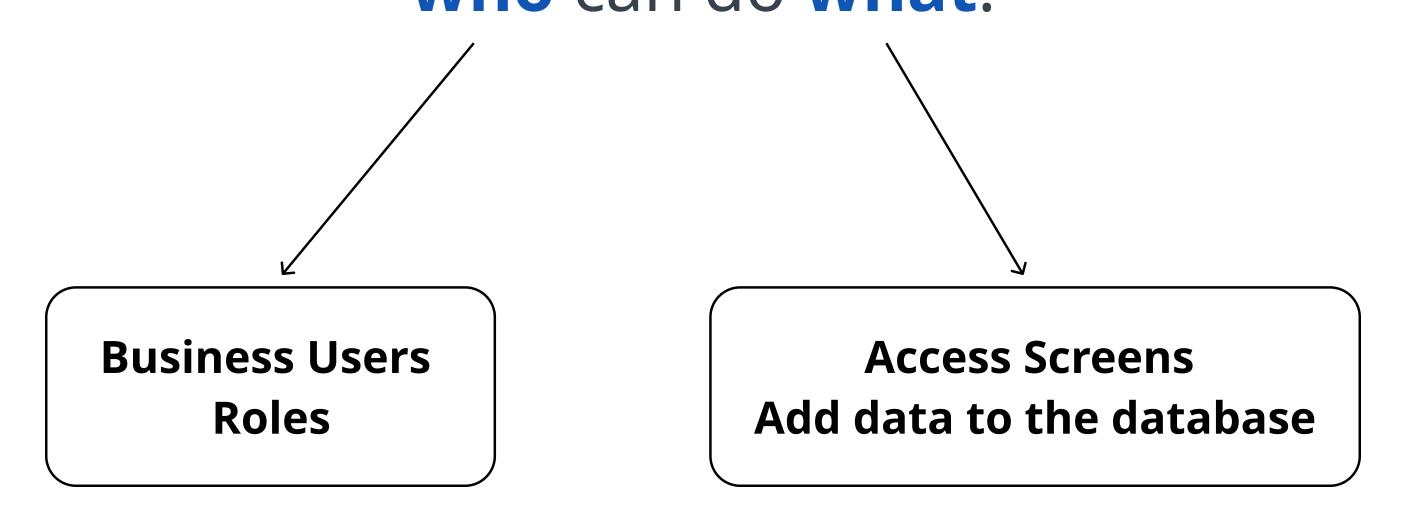
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What is Access Control?

Access control determines and enforces who can do what.

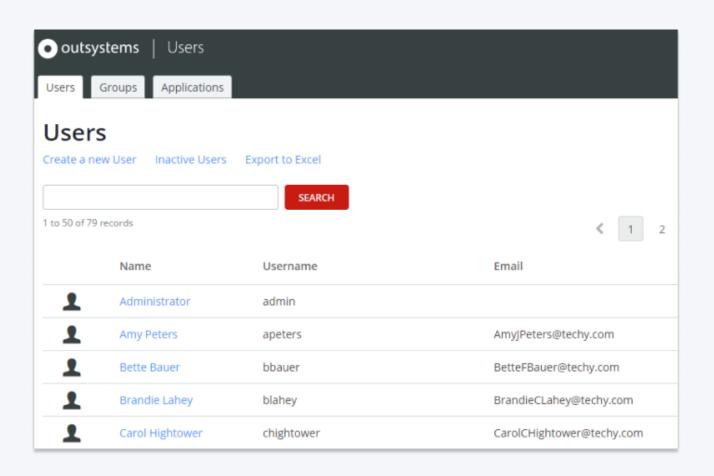




Authentication and Authorization

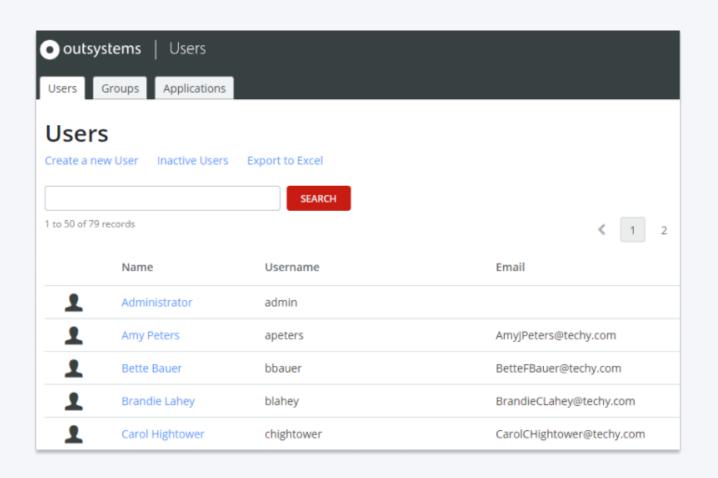
- Access control comprises Authentication and Authorization
- Authentication
 - Identify who is accessing the application
 - Validate user credentials (e.g. username and password)
- Authorization
 - Check if a user can execute a task
 - Validate if a user was granted the required permissions

Users



- End-users are created and managed in the built-in Users application
 - Default OutSystems end-user provider
 - o https://<your_server>/Users

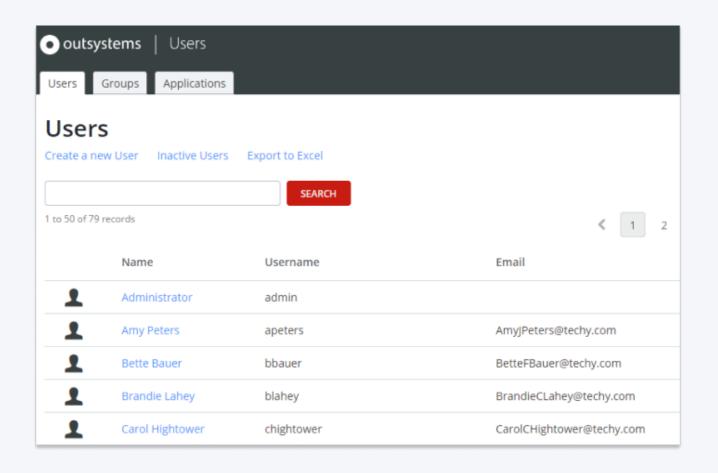
Users



- End-users are created and managed in the built-in Users application
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- The core information of a user is the username and password



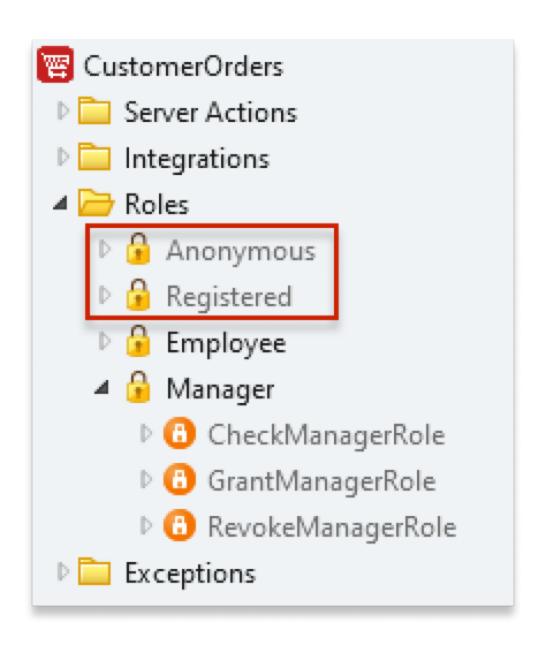
Users



- End-users are created and managed in the built-in Users application
 - Default OutSystems end-user provider
 - o https://<your_server>/Users
- The core information of a user is the username and password
- Can be created programmatically
 - Actions from the Users module

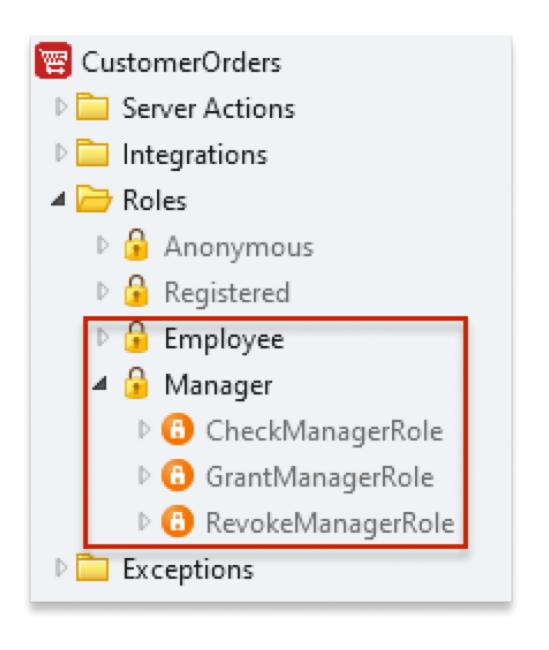
Roles

- Authorization is granted via Roles
- Built-in Roles
 - Anonymous
 - Registered
- All logged in end-users have the Registered Role



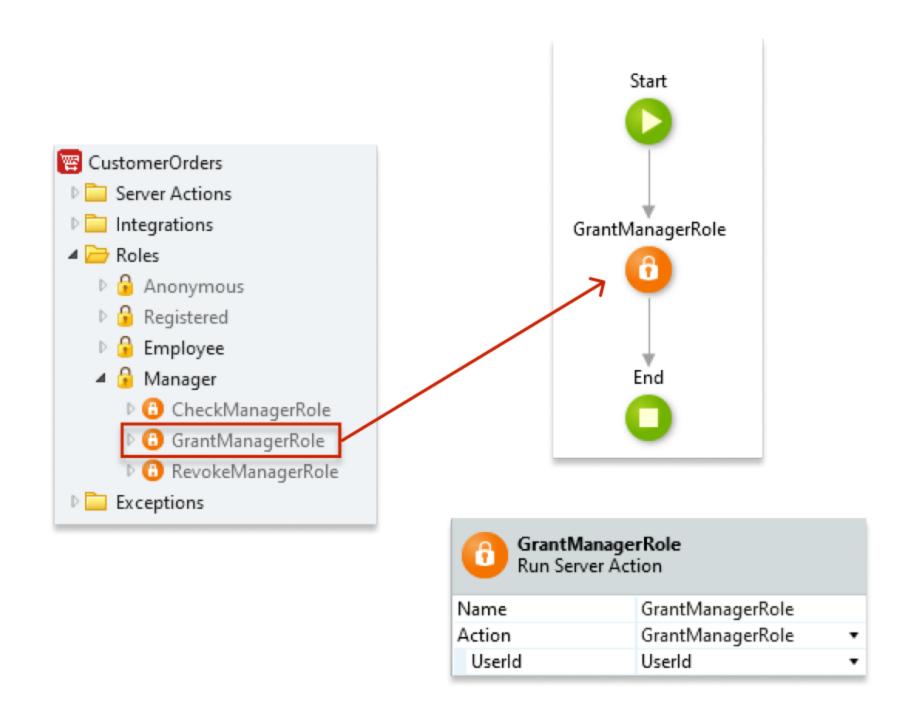
Roles

- Authorization is granted via Roles
- Built-in Roles
 - Anonymous
 - Registered
- All logged in end-users have the Registered Role
- Application-specific Roles can be created
 - Each Role has Check, Grant and Revoke Actions



Granting Authorization

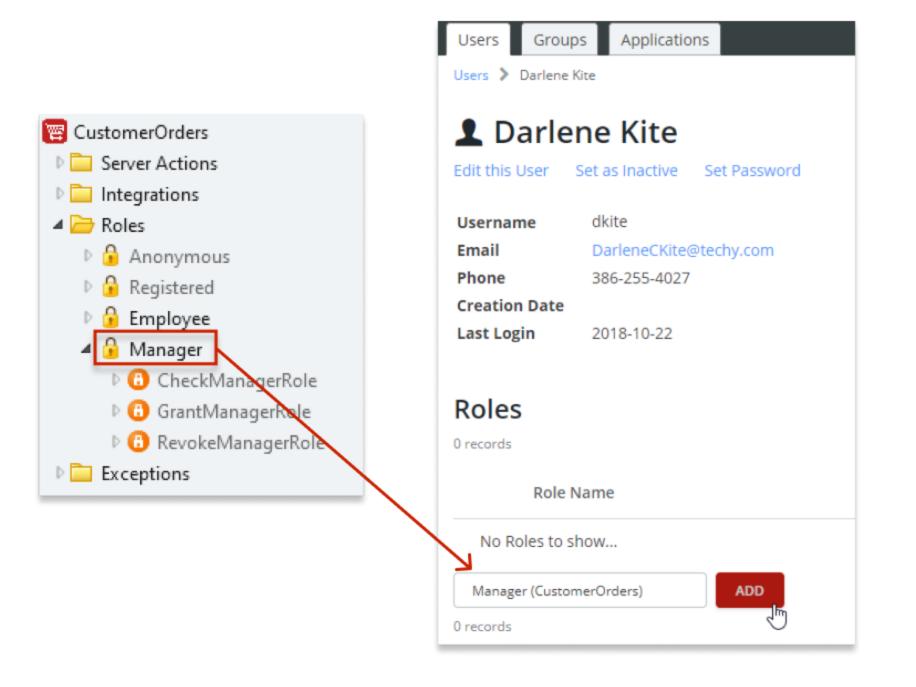
- Authorization is granted via Roles
 - Roles can be assigned to Users
- Authorization can be managed:
 - Programatically
 - Grant and Revoke Actions
 - Can be used in Server Actions





Granting Authorization

- Authorization is granted via Roles
 - Roles can be assigned to Users
- Authorization can be managed:
 - Programatically
 - Grant and Revoke Actions
 - Can be used in Server Actions
 - Manually in the Users app





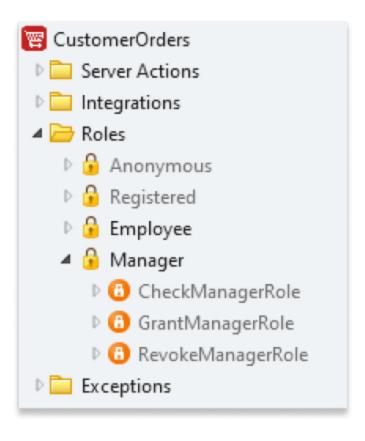
Checking Permissions

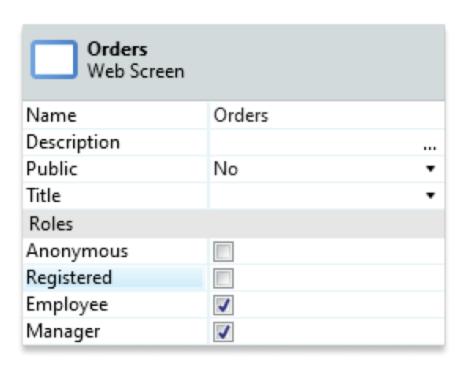
Roles can be checked in Screens and Actions



Checking Permissions on Screens

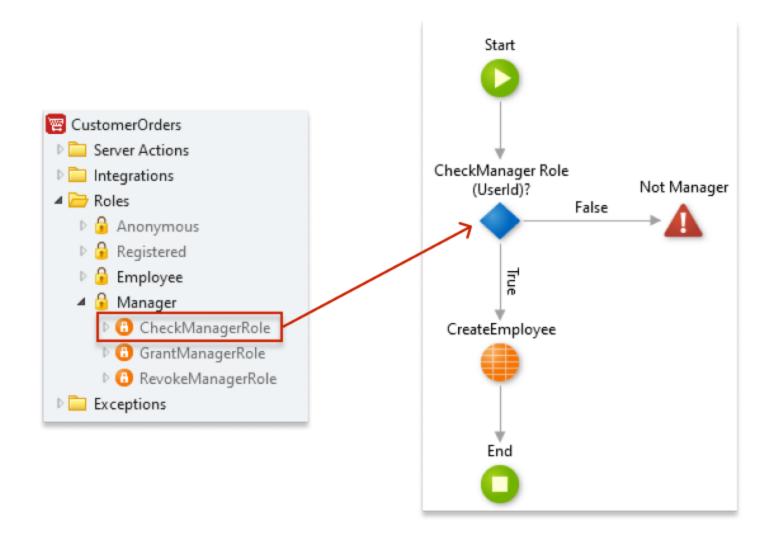
- Screen Roles property
 - Enforces a user to have one of the Roles to access the Screen





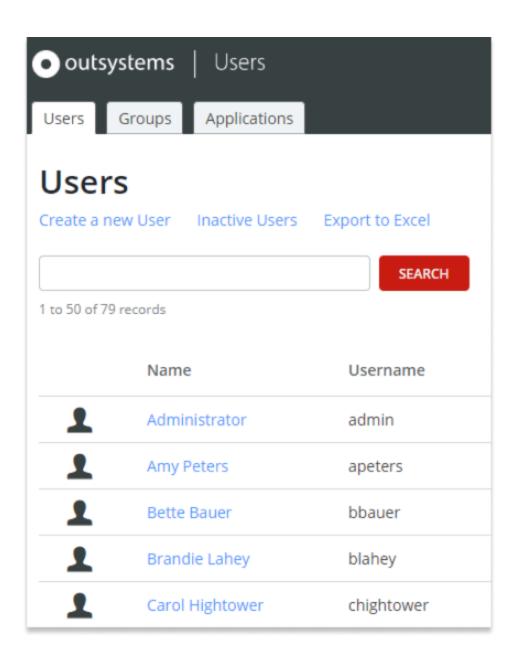
Checking Permissions on Actions

- Check<RoleName>Role(UserId) Action
 - Checks if a user has the Role
 - Can be used in If statements on server actions



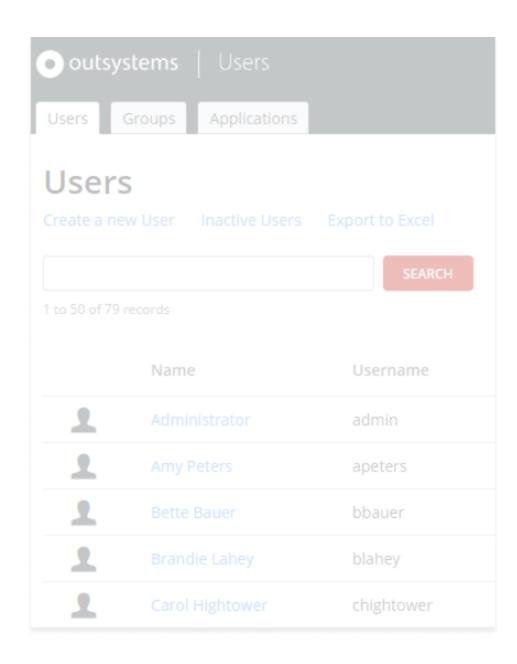


Define the User

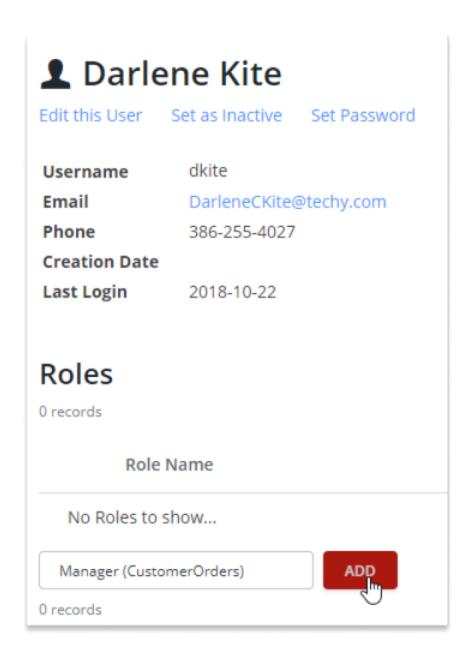




Define the User

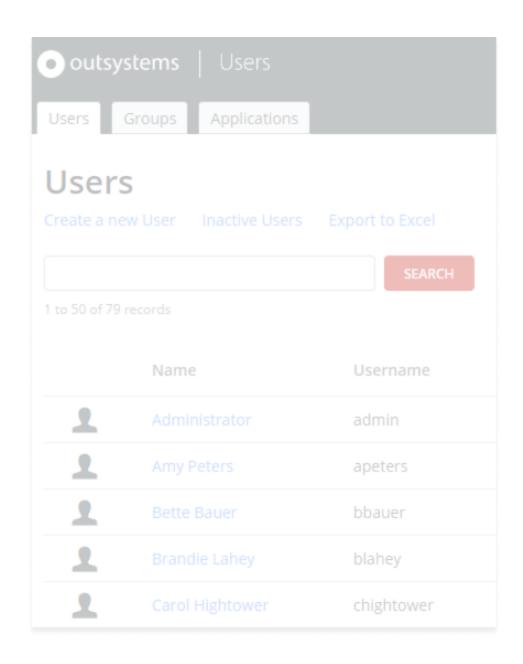


Grant a Role to a User

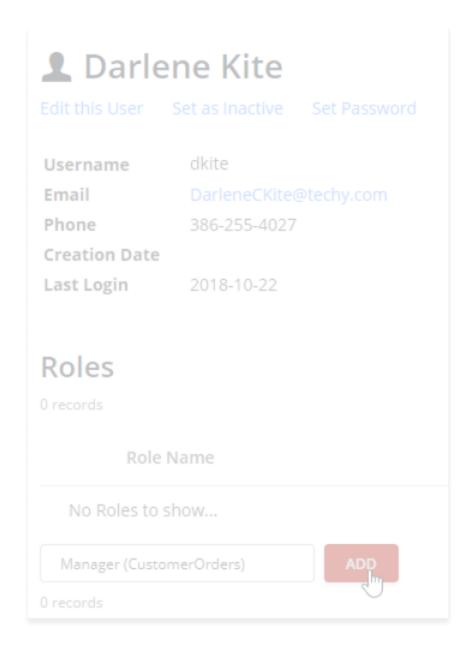




Define the User



Grant a Role to a User



Define / Check Permissions

