

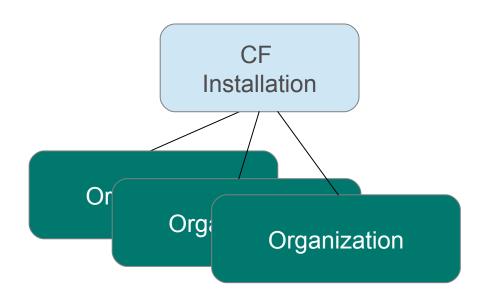
Organizations, Spaces, Users and Roles

Topics

- Organizations and Spaces
- Users and Roles

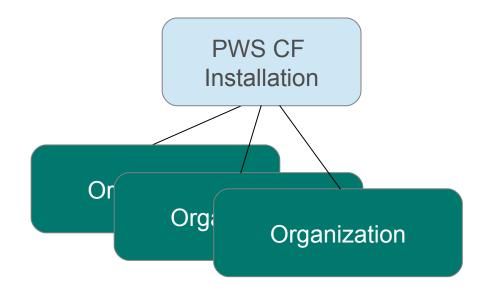
Organizations

- Top-most administrative unit
- Any Cloud Foundry installation can have multiple organizations defined in any way
 - A logical way to organize users and resources
 - Typically a company, department, application suite or large project
- Designed to support many users working collaboratively



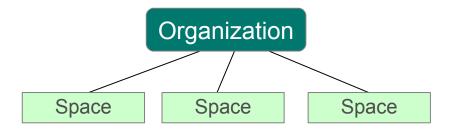
Organizations in PWS

- For Pivotal Web Services (PWS)
 - There is at least one organization per PWS account
 - Many PWS accounts share a single Cloud Foundry installation



Spaces

- Organizations contains multiple spaces
 - Default PWS space: development
 - Spaces also can be defined in any way
 - A logical way to organize users and resources
 - For example, staging and production



Spaces: Applications, Services and Users

- Applications and services are scoped to a space
- Provides a set of users access for:
 - Application development
 - Functionality and/or performance testing
 - Quality assurance
 - Deployment to production
 - Maintenance

space: development

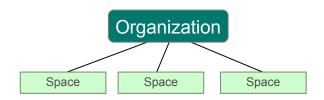
apps: myApp1, myApp2

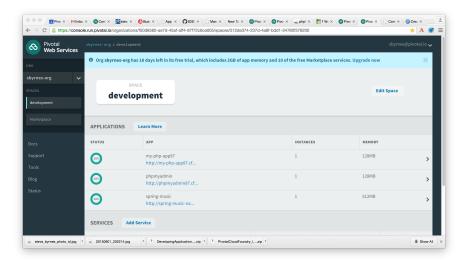
services: MySQL

users: developerA, developerB

Organizations and Spaces in Apps Manager

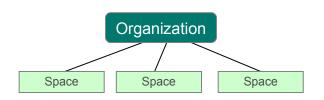
- When you log into PWS using a browser, you are using Apps Manager
 - https://console.run.pivotal.io
- You can view/modify organizations and spaces in Apps Manager

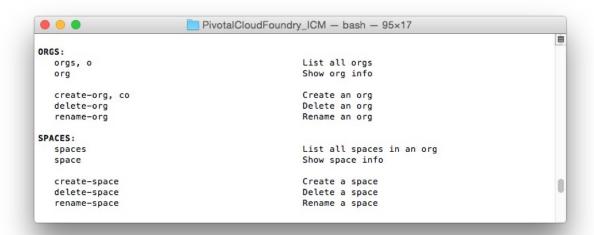




Organizations and Spaces with the cf CLI

- You can use the cf CLI to work with organizations and spaces
- From cf help...





Topics

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Users and Roles



- Users are members of an organization
 - Usually they are operators or developers (not application end users)
 - Users are sent an email invite and asked to create an account
- Users have specific organization and space roles
 - Organization roles grant permissions in an organization
 - Space roles grant permissions in a particular space
 - A combination defines the user's overall permissions

Organization Roles



- Organization Manager
 - Can do things like invite/manage users and roles, manage spaces, view application usage
- Organization Auditor
 - View only access to all org and space info, settings, reports
- Billing Manager
 - Sets org spending limits, and works with invoices and payments
 - Only relevant for Cloud Foundry environments deployed with a billing engine

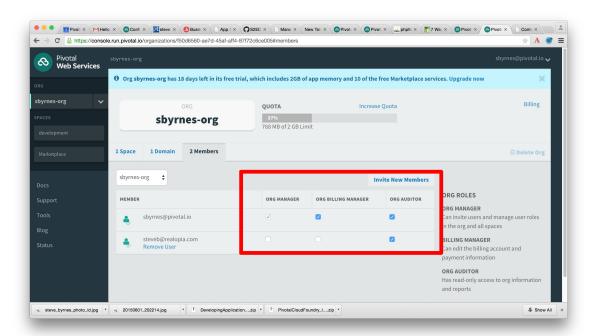
Space Roles



- Space Manager
 - Can invite/manage users, enable features for a given space
 - Can manage applications and services in a space
- Space Developer
 - Can create, delete, manage applications and services, full access to all usage reports and logs
- Space Auditor
 - View only access to all space information, settings, reports, logs

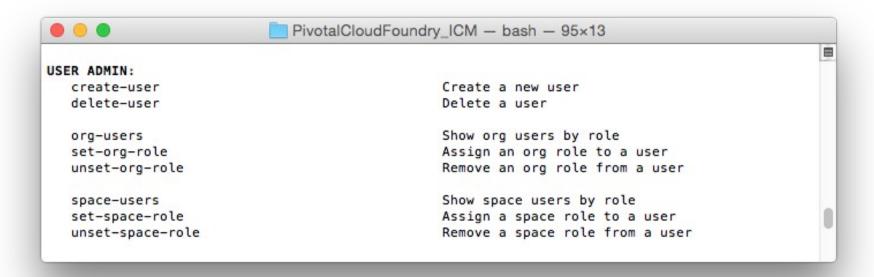
Users and Roles with Apps Manager

Invite members and assign roles with Apps Manager



Users and Roles with the CLI

- You can use the cf CLI to work with users and roles
- From cf help...



Roles when Creating a Space

- Creating a space adds new roles for the organization manager in the new space
 - SpaceManager
 - SpaceDeveloper

```
PivotalCloudFoundry_ICM — bash — 124×10

greylag:PivotalCloudFoundry_ICM sbyrnes$ cf create-space "labtest"
Creating space labtest in org sbyrnes-org as sbyrnes@pivotal.io...

OK
Assigning role SpaceManager to user sbyrnes@pivotal.io in org sbyrnes-org / space labtest as sbyrnes@pivotal.io...

OK
Assigning role SpaceDeveloper to user sbyrnes@pivotal.io in org sbyrnes-org / space labtest as sbyrnes@pivotal.io...

OK
TIP: Use 'cf target -o sbyrnes-org -s labtest' to target new space
greylag:PivotalCloudFoundry_ICM sbyrnes$
```

The Administrator User



- Special Administrator user / role defined
 - Defined for the Cloud Foundry installation
 - Separate from users defined at organization / space
- Several cf commands restricted to Administrator only
 - Setting organization and space quotas
 - Defining security groups
 - Administering services
 - Adding, modifying and removing user accounts
- Use without the right role, the cf CLI returns:

Server error, status code: 403, error code: 10003, message: You are not authorized to perform the requested action

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Lab

Manage organizations and spaces
Manage users and roles