

Setting up Remote State and Workspaces



Ned Bellavance

MICROSOFT MVP, CLOUD AND DATACENTER MANAGEMENT

@ned1313 www.nedinthecloud.com



Overview



Remote state is the next logical step

Teams need to collaborate

Remote state can be a data source

Workspaces create multiple environments





Mary Moe



Working as part of a larger team

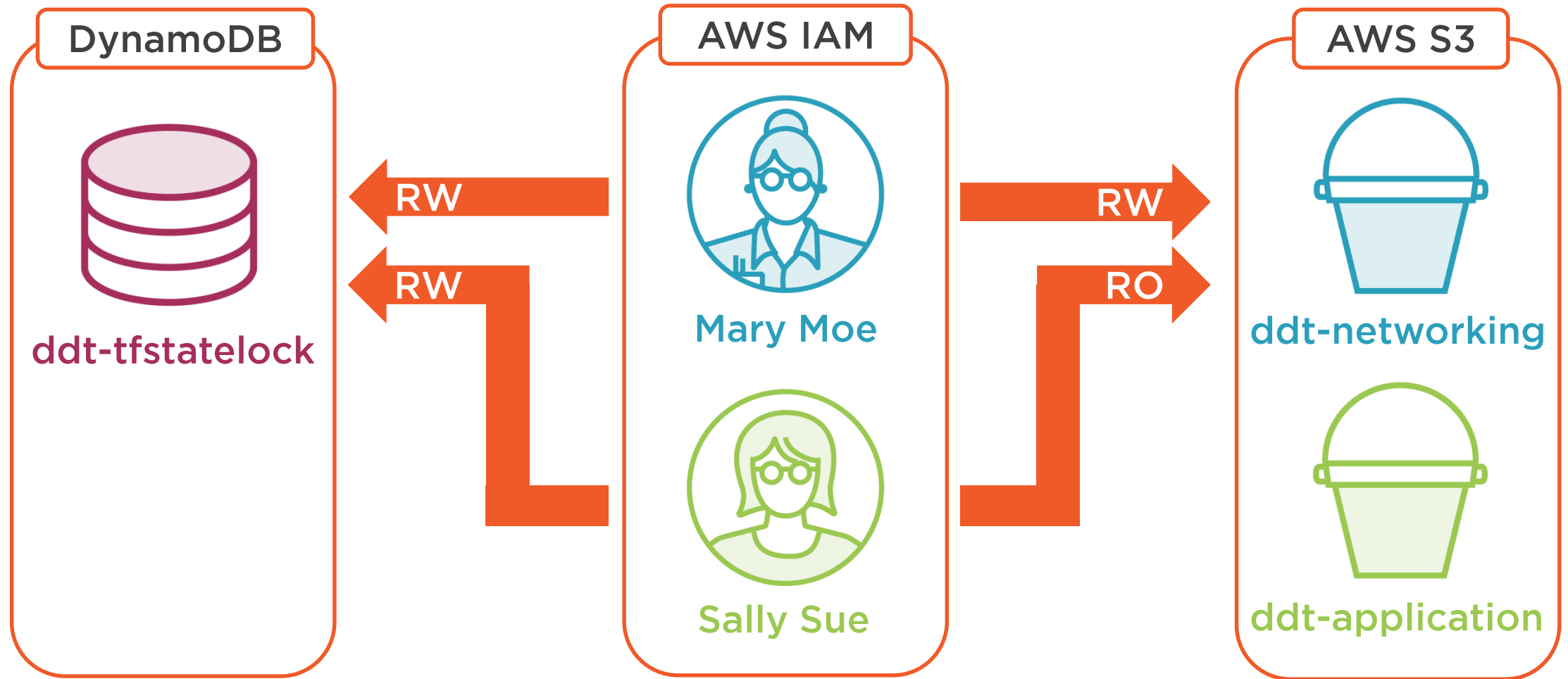
Configuring infrastructure for another team

Remote state enables collaboration

Need to restrict access for other teams



Remote State Setup



Demo



Examine the Terraform setup file

Deploy the configuration

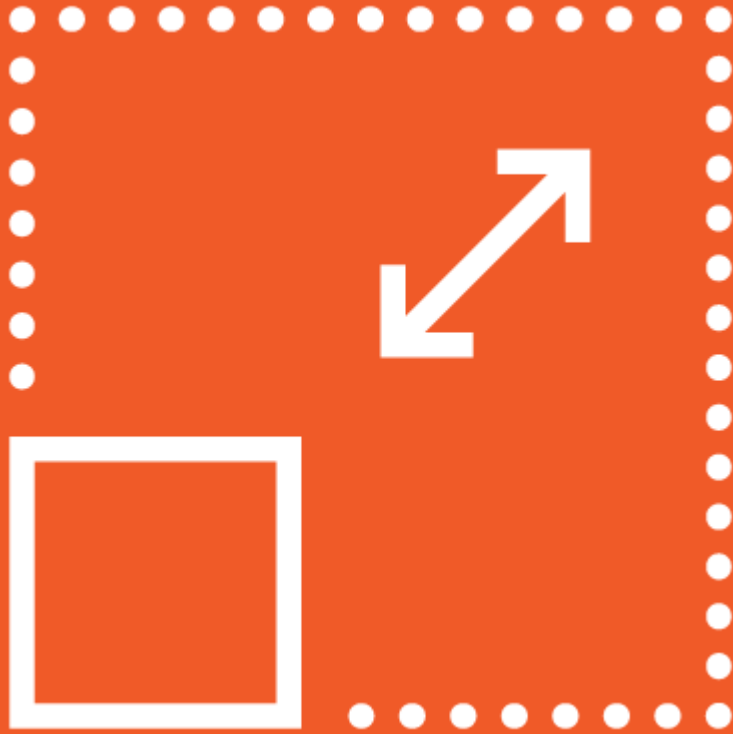
Review the results

Play along!

- AWS account
- Terraform software (terraform.io)
- Demo files



BACKEND



Remote state is stored in a backend

Backends must be initialized using **init**

Partial configurations recommended

Backends do not support interpolation

Basic Backend

```
terraform {  
    backend "type" {  
        # backend configurations  
        # partial configurations allowed  
        # no interpolations  
    }  
}
```

Backend Types S3, Consul, AzureRM

Configuring a Backend



WORKSPACES



Workspaces replace the environment command

Separate state file per workspace

Use a single configuration for multiple deployments

Supported by select backends



Configuring a Workspace

Workspace Commands

show – show current workspace

list – list all workspaces

select – select which workspace to use

new – create a new workspace

delete – remove a new workspace

Examples

```
terraform workspace new development
```

```
terraform workspace select development
```

Using in a Configuration

```
${terraform.workspace}
```



Summary



Remote state is a must have

Not all backends are created equal

Workspaces manage state for you

Coming up:

- Working with data sources
- Creating templates