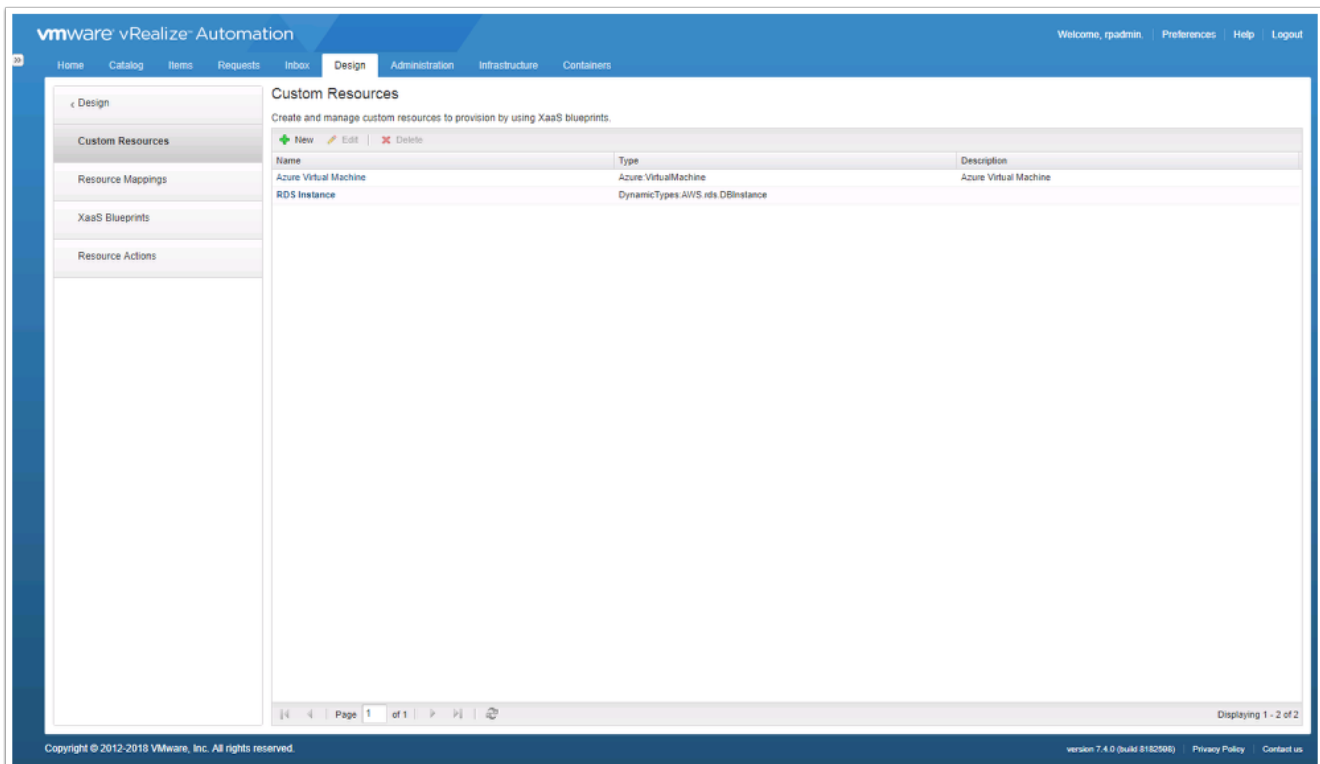
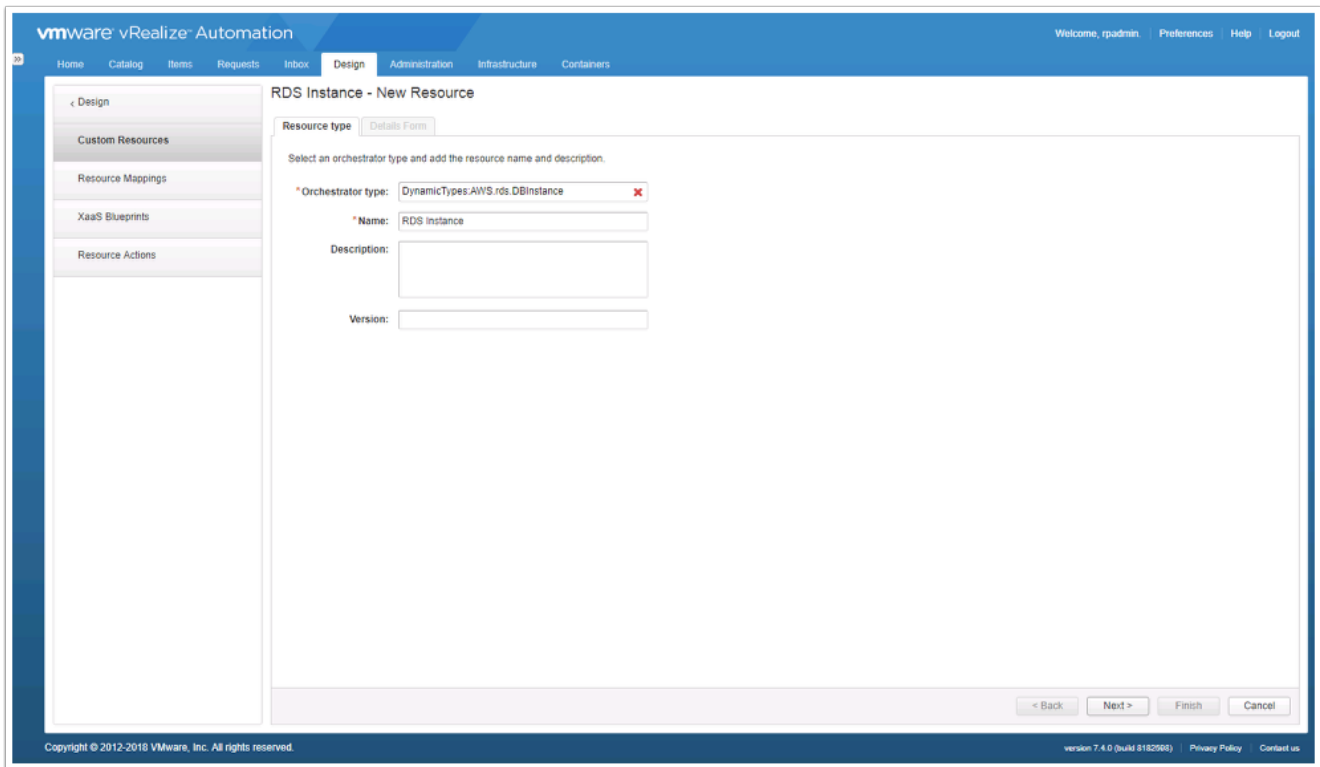


Using the vRO Plugin for AWS with vRA



vmware vRealize Automation

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Design

Custom Resources

Resource Mappings

XaaS Blueprints

Resource Actions

New Blueprint

Workflow | General | Blueprint Form | Provisioned Resource | Component Lifecycle

Select a workflow:

- Orchestrator
 - COE
 - AWS Dynamic Types plug-in
 - Plug-in extension
 - Samples
 - IAM
 - RDS
 - DBCluster
 - DBInstance
 - Order workflows passing parameters
 - Create DB Instance
 - Delete DB Instance
 - Start DB Instance
 - Stop DB Instance
 - DBInstance Snapshot
 - DBSecurityGroup
 - Add AWS account
 - Execute AWS request with URL
 - Invoke a create operation
 - Invoke a day 2 operation
 - Invoke a delete operation
 - Dynamic Type DB Plug-in generator
 - Dynamic Type Plug-in generator v2
 - NSX
 - Run script in guest wrappers samples
 - vRealize Automation
 - Guest Script Manager
 - Library
 - System
 - vRealize Operations Manager

Selected workflow:

Name: Create DB Instance

Description:

Input parameters:

| Name | Type |
|----------------------|---------------------------------------|
| DBInstanceIdentifier | string |
| MasterUserPassword | SecureString |
| MasterUsername | string |
| parent | DynamicTypes.AWS.rds.DBInstanceFolder |

Output parameters:

| Name | Type |
|------------|---------------------------------|
| dbInstance | DynamicTypes.AWS.rds.DBInstance |

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Custom Resources

Resource Mappings

XaaS Blueprints

Resource Actions

Create DB Instance - New Blueprint

Workflow | General | Blueprint Form | Provisioned Resource | Component Lifecycle

Name: Create DB Instance

Description:

Hide catalog request information page

Version:

Provisioning Workflow: Create DB Instance

Make available as a component in the design canvas

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The screenshot shows the 'Create DB Instance - New Blueprint' interface in VMware vRealize Automation. The 'Blueprint Form' tab is active, displaying a form with several fields: 'Database Instance Folder' (a dropdown menu with a 'Select' button and a message 'No DynamicTypes:AWS:ids:DBInstanceFolder selected'), 'Database instance identifier', 'Database instance username', and 'Database instance password'. On the left, a 'New fields' panel lists various input types like Text field, Text area, Link, Email, Image URL field, Password field, Integer field, Decimal field, Date & time, Check box, Yes/No, Drop-down, List, and Check box list. The bottom of the interface includes navigation buttons: '< Back', 'Next >', 'Finish', and 'Cancel'. The footer contains copyright information and version details: 'Copyright © 2012-2018 VMware, Inc. All rights reserved.' and 'version 7.4.0 (build 8182568) | Privacy Policy | Contact us'.

This screenshot shows the same 'Create DB Instance - New Blueprint' interface, but with the 'Provisioned Resource' tab selected. A dropdown menu is open, showing options: 'dbinstance [RDS Instance]', 'No provisioning', and 'dbinstance [RDS Instance]'. The selected option has a description: 'Description: rds DBInstance'. The rest of the interface, including the left sidebar and bottom navigation, remains the same as in the previous screenshot. The footer also contains the same copyright and version information.

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Custom Resources

Resource Mappings

XaaS Blueprints

Resource Actions

Create DB Instance - New Blueprint

Workflow | General | Blueprint Form | Provisioned Resource | **Component Lifecycle**

Define the lifecycle behavior of this blueprint when it is used in a composite blueprint that you configure in the design canvas. If this blueprint is available as a standalone XaaS blueprint in the service catalog, these lifecycle options do not apply. You can create XaaS resource actions to run the necessary lifecycle actions.

Scalable: ⓘ

Provisioning workflow: Create DB Instance ⓘ

Update workflow: ⓘ

Destroy workflow: ⓘ

Category: No category selected

< Back | Next > | Finish | Cancel

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Custom Resources

Resource Mappings

XaaS Blueprints

Resource Actions

XaaS Blueprints

Create and manage XaaS blueprints, and publish them as catalog items. You can select a workflow, define the forms associated with the catalog item, and select a resource to provision.

+ New | Edit | Copy | **Publish** | Unpublish | Delete

| Name | Description | Status |
|--------------------|-----------------------------------|-----------|
| Create DB Instance | Creates new Azure virtual machine | Published |
| | | Draft |

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Custom Resources

Resource Mappings

XaaS Blueprints

Resource Actions

Resource Actions

Create and manage custom resource actions to define the operations that can be performed on the provisioned items.

Advanced Search

+ New Edit Copy Publish Unpublish Delete

| Name | Description | Resource | Status |
|--------------------------|--|-----------------------|-----------|
| Stop | Powers off the specified Azure virtual machine. | Azure Virtual Machine | Published |
| Start | Powers on the specified Azure virtual machine. | Azure Virtual Machine | Published |
| Manage Public IP Address | Assigns an available Public IP Address to the VM's primary ne | Azure Virtual Machine | Published |
| Restart | Restarts the specified virtual machine. | Azure Virtual Machine | Published |
| Delete | Deletes the specified Azure virtual machine together with all re | Azure Virtual Machine | Published |

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Custom Resources

Resource Mappings

XaaS Blueprints

Resource Actions

New Resource Action

Workflow Input Resource Details Form

Select a workflow:

- Orchestrator
 - COE
 - AWS Dynamic Types plug-in
 - Plug-in extension
 - Samples
 - IAM
 - RDS
 - DBCluster
 - DBInstance
 - Older workflows passing parameters
 - Create DB Instance
 - Delete DB Instance
 - Start DB Instance
 - Stop DB Instance
 - DBInstance Snapshot
 - DBSecurityGroup
 - Add AWS account
 - Execute AWS request with URL
 - Invoke a create operation
 - Invoke a day 2 operation
 - Invoke a delete operation
 - Dynamic Type DB Plug-in generator
 - Dynamic Type Plug-in generator v2
 - NSX
 - Run script in guest wrappers samples
 - vRealize Automation
 - Guest Script Manager
 - Library
 - System
 - vRealize Operations Manager

Selected workflow:

Name: Delete DB Instance

Description:

Input parameters:

| Name | Type |
|------------|---------------------------------|
| dbInstance | DynamicTypes.AWS.rds.DBInstance |

Output parameters:

| Name | Type |
|---------------|------|
| No parameters | |

< Back Next > Finish Cancel

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Custom Resources

Resource Mappings

XaaS Blueprints

Resource Actions

New Resource Action

Workflow | **Input Resource** | Details | Form

Select a valid input resource type for this resource action, and an input parameter matching the resource type.

Resource type:

Input parameter:

Mapped to Orchestrator type: DynamicTypes:AWS.rds.DBInstance

Description:

< Back | Next > | Finish | Cancel

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Custom Resources

Resource Mappings

XaaS Blueprints

Resource Actions

Delete DB Instance - New Resource Action

Workflow | Input Resource | **Details** | Form

* Name:

Description:

Hide catalog request information page

Version:

Type

- Disposal
- Provisioning

Target criteria:

- Always available
- Available based on conditions

< Back | Next > | Finish | Cancel

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Custom Resources

Resource Mappings

XaaS Blueprints

Resource Actions

Delete DB Instance - New Resource Action

Workflow | Input Resource | Details | Form

Form: Action form

New fields

- ABC Text field
- ABC Text area
- http:// Link
- Email
- Image URL field
- **** Password field
- 123 Integer field
- 0.0 Decimal field
- Date & time
- Check box
- Yes/No Yes/No
- Drop-down
- List
- Item 1
- Item 2 Check box list
- Item 3

Form page: Step

Drag an item from the palette.

< Back | Next > | Finish | Cancel

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Custom Resources

Resource Mappings

XaaS Blueprints

Resource Actions

Delete DB Instance - New Resource Action

Workflow | Input Resource | Details | Form

Form: Action form

New fields

- ABC Text field
- ABC Text area
- http:// Link
- Email
- Image URL field
- **** Password field
- 123 Integer field
- 0.0 Decimal field
- Date & time
- Check box
- Yes/No Yes/No
- Drop-down
- List
- Item 1
- Item 2 Check box list
- Item 3

Form page: Step

Drag an item from the palette.

Submit the resource action?

Form Action form is empty. It is recommended to delete the empty forms before saving. Would you like to delete the empty forms before submitting?

Yes | No | Cancel

< Back | Next > | Finish | Cancel

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Design

Custom Resources

Resource Mappings

XaaS Blueprints

Resource Actions

Resource Actions

Create and manage custom resource actions to define the operations that can be performed on the provisioned items.

Advanced Search

+ New | Edit | Copy | Publish | Unpublish | Delete

| Name | Description | Resource | Status |
|--------------------------|--|-----------------------|-----------|
| Delete DB Instance | | RDS Instance | Draft |
| Stop | Powers off the specified Azure virtual machine. | Azure Virtual Machine | Published |
| Start | Powers on the specified Azure virtual machine. | Azure Virtual Machine | Published |
| Manage Public IP Address | Assigns an available Public IP Address to the VM's primary ne | Azure Virtual Machine | Published |
| Restart | Restarts the specified virtual machine. | Azure Virtual Machine | Published |
| Delete | Deletes the specified Azure virtual machine together with all re | Azure Virtual Machine | Published |

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Approval Policies

Directories Management

Users & Groups

Catalog Management

Property Dictionary

Reclamation

Branding

Notifications

Events

vRO Configuration

Active Directory Policies

Health

Services

Create, edit, publish, and manage services.

+ New | View Details | Copy | Delete | Activate | Manage Catalog Items

| Name | Status | Description | Last Updated On | Last Updated By |
|---------------|--------|-------------|-------------------|----------------------|
| Rainpole Devs | Active | | 2/15/17, 11:55 AM | Rainpole Cloud Admin |

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Administration

Services

Catalog Items

Actions

Entitlements

Services

Create, edit, publish, and manage services.

+ New Edit Copy Delete Deactivate Manage Catalog Items

| Name | Status | Last Updated On | Last Updated By |
|---------------|--------|-------------------|----------------------|
| Rainpole Devs | Active | 2/15/17, 11:55 AM | Rainpole Cloud Admin |

1 2 3

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Administration

Services

Catalog Items

Actions

Entitlements

Rainpole Devs

Catalog Items +

Filter by Source: All Filter by Resource Type: All Search

| Name | Status | Source | Resource Type | Scope | Appears in Catalog | Description | Actions |
|----------------------------|-----------|-------------------|---------------|--------|--------------------|-------------------------------|---------|
| CentOS - Linux Host | Published | Blueprint Service | Deployment | Shared | Yes | Simple Linux Template ba ... | |
| Photon OS - Container Host | Published | Blueprint Service | Deployment | Shared | Yes | Docker Remote API enabl... | |
| RaBVF Wordpress Multi-T... | Published | Blueprint Service | Deployment | Shared | Yes | | |
| Rainpole Wordpress Rout... | Published | Blueprint Service | Deployment | Shared | Yes | Multi-Tier Wordpress app r... | |

Displaying 1 - 4 of 4

Close

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Select Catalog Items

Search

| Selected | Name | Source | Resource Type | Scope | Appears in Catalog |
|-------------------------------------|-----------------------|------------------|------------------------|--------|--------------------|
| <input type="checkbox"/> | Apache Services | Software Service | Apache Services | Shared | No |
| <input checked="" type="checkbox"/> | Create DB Instance | XaaS | RDS Instance | Shared | Yes |
| <input type="checkbox"/> | Linux EPO Agent - RPM | Software Service | Linux EPO Agent - R... | Shared | No |
| <input type="checkbox"/> | Linux - LI Agent | Software Service | Linux - LI Agent | Shared | No |
| <input type="checkbox"/> | MySQL | Software Service | MySQL | Shared | No |
| <input type="checkbox"/> | PHP Service | Software Service | PHP Service | Shared | No |
| <input type="checkbox"/> | System Configuration | Software Service | System Configuration | Shared | No |
| <input type="checkbox"/> | Wordpress Database | Software Service | Wordpress Database | Shared | No |
| <input type="checkbox"/> | Wordpress Services | Software Service | Wordpress Services | Shared | No |

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OK Cancel

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Administration

Entitlements

Create and manage access to your catalog items in the service catalog, and the actions you can run on provisioned items. When you entitle services, catalog items, and actions, you grant access to one or more members of a selected business group. You can also apply approval policies to the services, items, and actions, and then prioritize multiple entitlements for the same business group to set the order in which approvals are applied.

| Name | Business Group | Order | Description | Status | Expires On | Last Updated By | Last Updated On |
|---------------------------|----------------|-------|-------------|--------|------------|----------------------|-------------------|
| Rainpole Devs Entitlement | RaBVF | 1 | | Active | | Rainpole Cloud Admin | 12/21/17, 1:00 PM |

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< Administration

Services

Catalog Items

Actions

Entitlements

Edit Entitlement

General | Items & Approvals

Select the services, items, and actions to include in this entitlement. With the exception of actions and blueprint components, entitled items appear in the service catalog. Actions are available only after items are provisioned. To apply different levels of governance, you can configure individual services, items, and actions with different approval policies. You can change the approval policies associated with entitled items at any time.

Entitled Services +

Search

| Name | Approval Policy |
|---------------|-----------------|
| Rainpole Devs | (none) |

Entitled Items +

Search

| Name | Approval Policy |
|------------------------------|-----------------|
| CentOS - Linux Host | (none) |
| Photon OS - Container Host | (none) |
| RaBVF Wordpress Multi-Tie... | (none) |
| Rainpole Wordpress Routed... | (none) |

Entitled Actions +

Actions only apply to items defined in this entitlement

db

| Action | Policy |
|-----------------------------------|--------|
| Delete DB Instance (RDS Instance) | |
| Associate Floating IP (Mach... | (none) |
| Cancel Reconfigure (Machine) | (none) |
| Change Lease (Deployment) | (none) |
| Change Lease (Machine) | (none) |
| Change NAT Rules (Network) | (none) |
| Change Owner (Deployment) | (none) |
| Change Security (Deployme... | (none) |
| Connect to Remote Console ... | (none) |
| Connect using Console Tick... | (none) |
| Connect using ICA (Machine) | (none) |
| Connect using RDP (Machine) | (none) |
| Connect using SSH (Machine) | (none) |
| Connect using VMRC (Mac... | (none) |
| Connect using Virtual Deskt... | (none) |
| Create Snapshot (Virtual Ma... | (none) |
| Delete (Azure Virtual Machine) | (none) |
| Delete Snapshot (Virtual Ma... | (none) |
| Destroy (Cloud Machine) | (none) |

< Back | Next > | Finish | Cancel

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Service Catalog

Browse the catalog for services you need.

On behalf of: rpadmin@corp.local

Rainpole Devs (5)

Search

CentOS - Linux Host
Simple Linux Template based on CentOS

Request

Create DB Instance

Request

Photon OS - Container H...
Docker Remote API enabled on 0.0.0.0.2376

Request

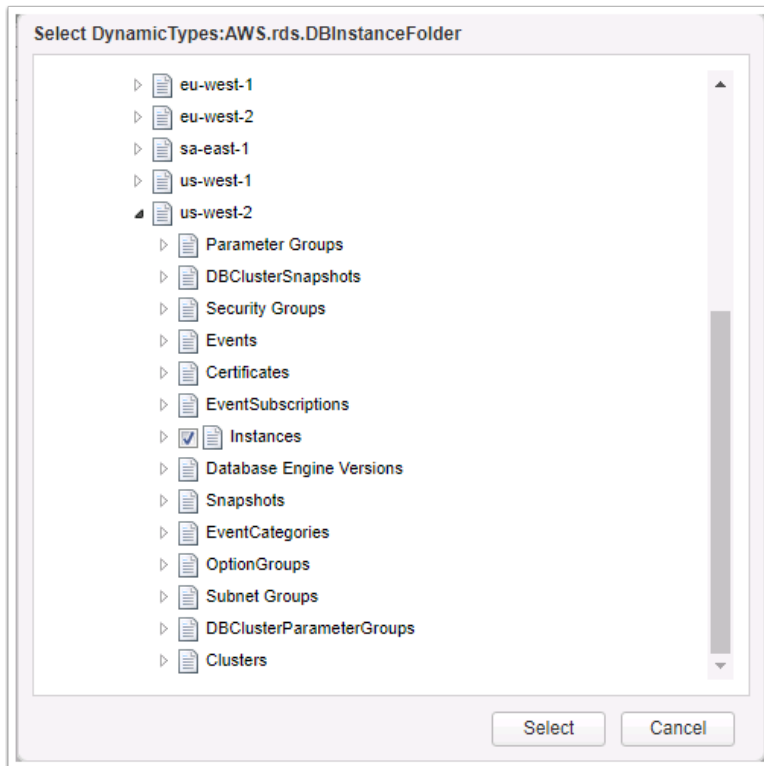
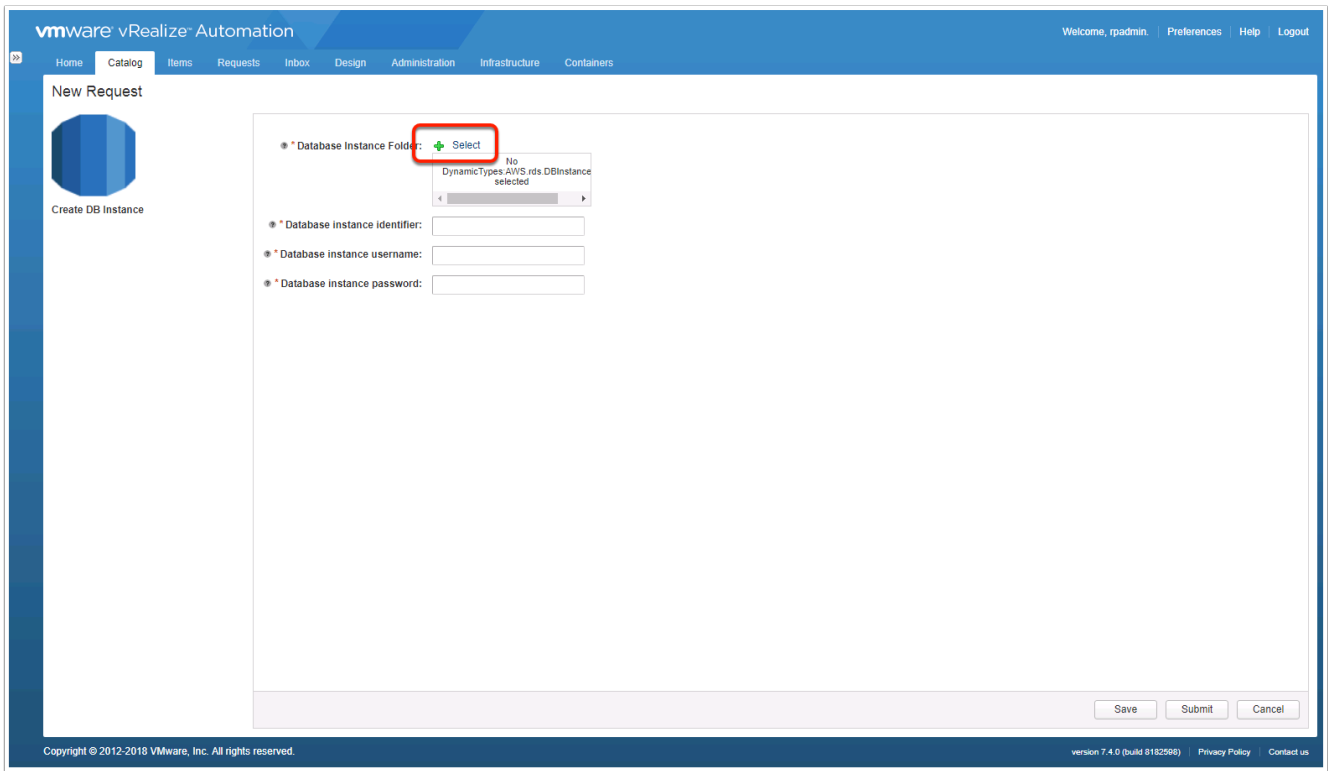
RaBVF Wordpress Multi-...

Request

Rainpole Wordpress Rou...
Multi-Tier Wordpress app routed with NSX

Request

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New Request

Create DB Instance

* Database Instance Folder: DBInstanceFolder [i]

* Database instance identifier:

* Database instance username:

* Database instance password:


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Request

 The request has been submitted successfully.

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The screenshot shows the VMware vRealize Automation interface. The top navigation bar includes 'Home', 'Catalog', 'Items', 'Requests', 'Inbox', 'Design', 'Administration', 'Infrastructure', and 'Containers'. The 'Items' tab is active. On the left sidebar, under 'Deployments', the 'Dynamic Types' menu item is highlighted with a red rectangle. The main content area is titled 'RDS Instance' and contains a table with one entry: 'demordsinstance'. The table has columns for Name, Description, Owner, and Date Created. The footer shows 'Copyright © 2012-2018 VMware, Inc. All rights reserved.' and 'version 7.4.0 (build 8182588)'.

This screenshot shows the same VMware vRealize Automation interface. In the left sidebar, the 'RDS Instance' menu item is highlighted with a red rectangle. In the main content area, the 'demordsinstance' entry is selected, and the 'Delete DB Instance' button in the 'Actions' menu is highlighted with a red rectangle. A red arrow points from the 'Delete DB Instance' button to the 'demordsinstance' entry in the table. The footer shows 'Copyright © 2012-2018 VMware, Inc. All rights reserved.' and 'version 7.4.0 (build 8182588)'.

RDS / Instances

Instances (6) Refresh Instance actions Restore from S3 Launch DB Instance

Filter instances

| DB instance | Engine | Status | CPU | Current activity | Maintenance | Class | VPC | Multi-AZ |
|---------------------------------|--------|------------|--------|------------------|-------------|-------------|--------------|----------|
| demordsinstance | MySQL | backing-up | 16.27% | 0 Connections | none | db.t2.micro | vpc-a5e7afc3 | No |