Feature: Configure Multi-site

User Story

As an Administrator, I want to configure multi-site on the first cluster (add)

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	NFS Filesystems Object Gateway +				Add Multi-site Configuration workflow Step 1 - Add Realm
Object Gateway>> Multi-site >> Add Realm 1 Add Realm	Zonegroups	Zones 3	System User	Review 5	 Workflow for creating a multi-site configuration. Triggered by user selecting the "Add" action previously. A multi-site configuration requires at least 2 Ceph storage clusters, preferably given a distinct cluster name. At least 2 Ceph object gateway instances (multi-action control on the pack Ceph and Ceph actions).
Add nev Name * O Use exis Name *	* Name ✓ Default sting realm	Select a realm	Add Zone	groups >>> Cancel	 Infinite, Archest Cephr Object gateWay instances (rgw), one for each Ceph storage cluster. A multi-site configuration requires a master zone group and a master zone. Additionally, each zone group requires a master zone. Zone groups may have one or more secondary or non-master zones. IMPORTANT NOTES The master zone within the master zone group of a realm is responsible for storing the master copy of the realm's metadata, including users, quotas and buckets (created by the radosgw-admin CLI). This metadata gets synchronized to secondary zones and secondary zone groups automatically. Metadata operations executed with the radosgw-admin CLI MUST be executed on a host within the master zone of the master zone groups and zones. Currently, it is possible to execute metadata operations on secondary zones and zone groups, but it is NOT recommended because they WILL NOT be syncronized, leading to fragmented metadata.

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Dashboard Cluster • Pools Block • Object Gateway >> Multi-site >> Add					Add Multi-site Configuration workflow Step 2 - Add Zonegroup
Realm	Zonegroups	Zones	System User	Review	Add first zonegroup.
1	2	3	4	5	
Add Zonegroup					
Name *	Name				
	🖌 Default				
	☑ Master				
Endpoints *	e.g., http://fqdn, http://ceph-node1.example.com:80				
			< Edit Realm Add Another Zonegroup Add Zones >>	Cancel	
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Dashboard Cluster + Pools Block +	NFS Filesystems Object Gateway •				Add Multi-site Configuration workflow Step 2 - Add Another Zonegroup
Object Gateway >> Multi-site >> Add Realm	Zonegroups	Zones 3	System User	Review 5	 Add second zonegroup (optional sub-step).
Add Zonegroup					
Name *	Name Default				
Endpoints *	Master e.g., http://fqdn, http://ceph-node1.example.com:80				
		<< E0	dit Realm Add Another Zonegroup Add Zo	ones >> Cancel	
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Deshboard Cluster Pools Block Dbject Gateway Nulti-site Add	NFS Filesystems Object Gateway +				Add Multi-site Configuration workflow Step 3 - Add Zone
Realm	Zonegroups	Zones	System User	Review	Add first zone.
1	2	3	(4)	5	$\frac{1}{2}$ Zonegroup should automatically default to the zonegroup that was just created.
Add Zone					 Zone Type options (only for when additional zones get added) include: default (standard zone)
Zonegroup *			Select a zonegroup 🔶 🔶 1		 archive (Archive sync tier type); Archive is a new feature introduced in Nautilus.
Name *	Name				<u>3</u> Endpoint for the zone is typically different from the endpoint of the
	🖌 Default				zonegroup.
	🖌 Master				
Zone Type *	Default (2				
Endpoints *	e.g., http://fqdn, http://ceph-node1.example.com:80		←3		
		< Edit Zor	Add Another Zone Add System	User >> Cancel	
acab					

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ashboard Cluster • Pools Block • I Object Gateway >> Multi-site >> Add	NFS Filesystems Object Gateway •	<u> </u>			Add Multi-site Configuration workflow Step 3 - Add Another Zone
Realm	Zonegroups	Zones	System User	Review	Add second zone (optional sub-step
1	2	3		5	<u>1</u> Secondary zones added will not have a master checkbox option.
Add Zone					2 Zone Type options (only for when additional zones get added) include:
Zonegroup *			Select a zonegroup 😫		 default (standard zone) archive (Archive sync tier type); Archive is a new feature introduced
Name *	Name				Nautilus.
	🗌 Default 🔶 🕇				Additional Notes on the archive zone
Zone Type *			Select a zone type 🔶 🔶 2		 type By including an archive zone in a
Endpoints *	e.g., http://fqdn, http://ceph-node1.exampl	le.com:80			multizone configuration, it allows yo to have the flexibility of an S3 object
		< Edit Zonegro	ups Add Another Zone Add System	User >> Cancel	history in only one zone while savin the space that the replicas of the versioned S3 objects would consum in the rest of the zones. http://docs.ceph.com/docs/master. dosgw/archive-sync-module/
					FUTURE support for ElasticSearch support for Pubsearch
renh Caph Dashboar	d: Proposed RGW Features				

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Deshboard Cluster • Pools Block • Object Gateway >> Multi-site >> Adv					Add Multi-site Configuration workflow Step 4 - Add System User for the Master Zone
Realm	Zonegroups 2	Zones 3	System User	Review 5	 Creates a system user that is associated to the master zone. System takes care of ensuring the keys for this user is used by each of
Add System User					the zones being configured. • Note: from Orchestrator perspective, the system user has to be created after master zone is created, and
Master zone	Master_zone_name				after master zone is created, and then modifying the master zone to attach the system user's keys.
Username *	Name				
			<< Edit Zones Rev	view >> Cancel	

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Object Gateway >> Multi-site >> Add						Step 5 - Review choices
Realm	Zonegroups	Zones 3		System User	Review	1 Details are shown upon selection of an object on the tree (similar to crushmap viewer).
Review						
 realm_name (realm) zonegroup_1 (zonegroup) zone_11 (zone) zone_12 (zone) zonegroup_2 (zonegroup) zone_21 (zone) zone_22 (zone) 	master		zone id default master endpoints zone attrib zone attrib	zone_22 ### No No http://ceph-node01.example.com:80 zone value zone value	< - 1	
System User	zone11_user					
				< Edit System User Add Mult	ti-site >> Cancel	
				Edit System User Add Mult	Cancel	