

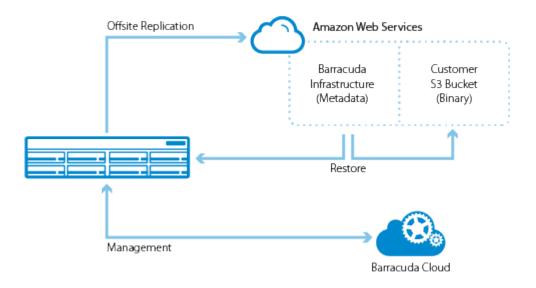
Amazon Web Services Offsite Replication

https://campus.barracuda.com/doc/78809432/

Note that the videos in this article do not contain audio.

Replication of data offsite to Amazon Web Services (AWS) requires an AWS Replication subscription from Barracuda. Replication to AWS is designed for customers currently using AWS and who have either a preference for storing backup data in AWS or are required to do so for compliance reasons. Once configured, all binary data that has been replicated offsite is stored in an Amazon Simple Storage Service (S3) bucket in the customer AWS account. All metadata is stored in Barracuda's AWS account and infrastructure. All data replicated to AWS is encrypted using 256-bit AES encryption inflight and stored deduplicated, compressed, and encrypted in the customer S3 bucket. See <u>Amazon</u> <u>S3</u> for more information.

Figure 1. Offsite Replication to AWS.



To configure AWS as an offsite replication destination, you must first prepare your AWS account by giving Barracuda Backup the proper permissions to create an S3 bucket and store data in it. After these steps are complete, you can configure the replication destination on the **Backup > Replication** page.

Prepare Amazon Web Services

The following steps explain how to download the Barracuda provided CloudFormation Template, upload the template to AWS, configure the AWS Import Service Role, and add your AWS credentials to Barracuda Backup so that it can access your AWS account.



Download the CloudFormation Template

See <u>AWS CloudFormation Templates</u> for additional information.

- 1. Log in to your Barracuda Backup appliance, and go to the **Admin > AWS Credentials** page.
- 2. Under STEP 1 of the Add AWS Account wizard, click Download to save the Barracuda

CloudFormation template to your local system:

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Upload Template to Amazon Web Services

- 1. Log in to AWS services using your account credentials.
- 2. Click **Services**, and navigate to and select **CloudFormation**.
- 3. Click **Create Stack**. In the **Choose a template** section, click **Upload a template to Amazon S3**:



Create stac		
Select Template Specify Details	Select Template	
Options Review	Select the template that descr single unit.	ibes the stack that you want to create. A stack is a group of related resources that you manage
	Design a template	Use AWS CloudFormation Designer to create or modify an existing template. Learn more. Design template
	Choose a template	A template is a JSON/YAML-formatted text file that describes your stack's resources and their properties. Learn more.
		 Select a sample template
		Upload a template to Amazon S3 Choose File No file chosen
		Specify an Amazon S3 template URL

- 4. Click **Choose File**, and navigate to and select the CloudFormation template saved to your local system. Click **Next**.
- 5. On the **Specify Details** page, enter a name to represent the AWS resources in the **Stack name** field. Click **Next**.
- 6. On the **Options** page, click **Next**.
- 7. On the **Review** page, select **I acknowledge that AWS CloudFormation might create IAMresources**, and click **Create** to create an IAM role in your AWS account.
- 8. Once the stack is created, it displays in the table with a status of **CREATE_COMPLETE**:



	er: Active - Stack Nam			ated Time		Status		Description	
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Create stack					
Select Template	Specify Details				
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Configure an Amazon Web Services Import Service Role (Optional)

Included in the replication to AWS functionality is the ability to restore VMware vSphere and Microsoft Hyper-V virtual machines (VMs) to an Amazon Machine Image (AMI) where they can be launched in Amazon Elastic Compute Cloud (EC2). Before you can restore VMware and Hyper-V VM backups to AWS, you must first create the service role *vmimport*. The following step are only necessary if you plan to restore VMware or Hyper-V virtual machines to AWS.

Amazon Elastic Compute Cloud (EC2) and Amazon Storage Service (S3) instances are typically separate. AWS requires a role to allow EC2 to access your S3 storage. AWS uses the vmimport service role to provide permissions between EC2 and S3. This section assumes you have not set up the vmimport service role. If you previously set up the vmimport role, you must grant Barracuda Networks access to replicate Barracuda Backup data to AWS.

To create the service role:

1. Click the following hyperlink:

https://console.aws.amazon.com/cloudformation/home?#/stacks/new?stackName=barracuda-v mimportstack&templateURL=https://s3.us-east-2.amazonaws.com/barracuda-templates/vmimport.templ ate



2. On the **Select Template** page, verify that **Specify an Amazon S3 template URL** is selected and that the URL in the text box matches the URL in the following images:

Select Template	
Select the template that descri	bes the stack that you want to create. A stack is a group of related resources that you manage as a single unit.
Design a template	Use AWS CloudFormation Designer to create or modify an existing template. Learn more. Design template
Choose a template	A template is a JSON/YAML-formatted text file that describes your stack's resources and their properties. Learn more. Select a sample template
	 Upload a template to Amazon S3 Choose File No file chosen Specify an Amazon S3 template URL https://s3.us-east-2.amazonaws.com/barracuda-templates/vmimport.template View/Edit template in Designer

- 3. On the **Select Template** page, click **Next**.
- 4. On the **Specify Details** page, click **Next**.
- 5. On the **Options** page, click **Next**.
- 6. On the Review page, select I acknowledge that AWS CloudFormation might create IAM resources with custom names, and then click Create to create the vmimport role in your AWS account:



Select Template	Review
Specify Details Options Review	Template
INCOME W	Template URL https://s3.us-east-2.amazonaws.com/barracuda-templates/vmimport.template Description DESCRIPTION Estimate cost Link is not available
	Details
	Stack name: barracuda-vmimport-stack
	Options
	Tags
	No tags provided
	Advanced
	Notification Timeout none Rollback on failure Yes
	Capabilities
	The following resource(s) require capabilities: [AWS::IAM::ManagedPolicy, AWS::IAM::Role] This template contains Identity and Access Management (IAM) resources. Check that you want to create each of these resources and that they have the minimum required permissions. In addition, they have custom names. Check that the custom names are unique within your AWS account. Learn more.
	I acknowledge that AWS CloudFormation might create IAM resources with custom names.

7. Once the stack is created, it displays in the table with a status of **CREATE_COMPLETE**:



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	Choose a template	A template is a JSONYAML-formatted text file that describes your stack's resources and their properties.	Learn more	
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		Upload a template to Amazon S3 Choose File No file chosen		
		 Specify an Amazon S3 template URL 		
		https://s3.us-east-2.amazonaws.com/barracuda-templates/vmimport.template	View/Edit template in Designer	
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Create stack				
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	Design a template	Use AWS CloudFormation Designer to create or modify an existing template. Learn more.		
		A template is a JSONY/AML-formatted text file that describes your stack's resources and their properties. Learn more. Select a sample template		
		Upload a template to Amazon S3 Choose File No file chosen		
		Specify an Amazon S3 template URL https://s3.us-east-2.amazonaws.com/barracuda-templates/vmimport.template I	View/Edit template in Designer	
				Cancel Next

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Add Amazon Web Services Credentials

1. After creating the two AWS CloudFormation stacks in the sections above, select the newly created IAM role:

	Create Stack Actions Design template													C	•		
		Filter:	Active • By	Stack Name										Showing	2 stacks		
		Stack Name Created Time				Stat	Status Description										
	barracuda-vmimport-stack			port-stack	2017-08-01 14:28:17 UTC-0400			CRE	CREATE_COMPLETE		DESCRIPTION						
	6	cuda-bbs-aws-demo 2017-08-01 08:30:38 UTC-0400				CRE	CREATE_COMPLETE Policy allowing			the IAM role used by Barracuda Backup to query information about the permissions granted to it.							
2.	C	lick	the R	lesou	rce	es tab	below	the	he table and click the link in				Physical ID fie	eld:			
		Overviev	v Outputs	Resources	Ever	ts Template	Parameters	Tags	Stack Policy	Change Set	5						
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	CudaBbsTestCredentialsPolicy arn:aws:iam::024031600986:policy R6NDD7A2J							y/cuda-bbs	aws-demo-Cudal	BbsTestCreden	ialsPolicy-NNO	AWS::IAM::ManagedPolicy	CREATE_COMPLETE				

3. On the **Summary** page, copy the **Role ARN** to your clipboard:



	IAM > Roles > cuda-bbs-aws-demo-CudaBbsRole-K5HJJY	Y3TMNI1						
Search IAM	- Summary							
Dashboard	Role ARN	am aws iam: 024031600986 role/cuda-bbs-aws-demo-CudaBbsRole-K5HJJY3TMNI1						
Groups	Role description	Edi						
Users	Instance Profile ARNs							
Roles	Path	Ι						
Policies	Creation time	2017-08-01 08:30 EDT						
Identity providers	Give this link to users who can switch roles in the console	https://signin.aws.amazon.com/switchrole?account=024031600986&roleName=cuda-bbs-aws-demo-CudaBbsRole- K5HJJY3TMNI1						
Account settings								
Credential report	Permissions Trust relationships Access Advisor	Revoke sessions						
Encryption keys	You can view the trusted entities that can assume the role a	and the access conditions for the role. Show policy document						
Encryption keys		Conditions						
Спотрыт ксуз	Trusted entities							
споураон коуз	Trusted entities The following trusted entities can assume this role.							
Ling pion roys		The following conditions define how and when trusted entities can assume the role Condition Key Value						

4. Return to the Admin > AWS Credentials page in the Barracuda Backup web interface.
5. Click STEP 3 in the Add AWS Account wizard:

Barracuda Cloud Control											Community	Support	🚺 demoguest@barracuda.com 👻		
Q Search		•=	BU	Dashboard	Backup	Restore	Reports	Sys	tem	Admin					
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HQ Backup (CAM)															
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6. Enter an **Account Name** and paste the **Role ARN** copied earlier into the **IAM Role (ARN)** field.

The **Account Name** can be anything; this name is used in Barracuda Backup to easily identify your AWS IAM Role (ARN).

7. Click **Verify**, and click **Add** if the verification was successful:



	STEP	1	STE	2		STEP 3		
	Add AWS	Account						
	Account Nam	e (j						
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	Backup	4 > Development B	ackup (ARB): AWS Crec	lentials				
	Cloud-to-Cloud Office 365 Backups	1 STEP 1	STEP 2	STEP 3	Account Name	IAM Role (ARN)		
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JII NEYS	Managed	Policies										
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	📦 Amazo	nS3FullAccess			Show Policy Detach Policy Simulate Policy							
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Videolink:

https://campus.barracuda.com/

Configure Amazon Web Services as an Offsite Replication Destination

You must complete the steps in the *Prepare Amazon Web Services* section before you can replicate data to AWS.



Use the following steps to set up replication to AWS:

- 1. Log in to your Barracuda Backup appliance, and go to the **Backup > Replication** page.
- 2. Scroll down to AWS (Amazon Web Services), and click Configure now.

Configure US East (Ohio) for North American customers and EU West (Ireland) for customers in EMEA.

- 3. The AWS Replication dialog displays. Select your preconfigured **AWS Account** and the **AWS Region** where you want your replicated data to be stored.
- 4. Read and accept the S3 Bucket agreement, and click **Done**:

AWS Ac	count:	cuda-aws-test
AWS R	tegion:	us-east-2
S3 Bucket	Name:	barracuda-bbs-1240749-b62e9951-e9f2-407e- a2c6-463fed5df743
I agree	to allow	/ Barracuda Backup to automatically create a new
		dest in the observe sector and second second second balls to
	n S3 buo	cket in the chosen region and account on my behalf. I
Amazo		tand that once I click Done, the AWS account, region,

5. The AWS replication target should now be configured:



Barracuda Cloud Control											Commur	ity Support	() demoguest	@barracuda.com ▼
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🕋 Home		Sources	Replication	n s	chedules	Exclusions	R	etention Policie	;					
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🥝 Development Backup (ARB)		Target List								Status	Total Stored	Queue Age	Queue Size	Settings
HQ Backup (CAM)														
Receiver Vx (ATL)			HQ Backup (CAM) / Barracuda Backup Appliance Vx											
Email Security			Destination IP Address: 10.143.240.12 Bandwidth Rate Limit: Default Full Speed, Alternate 25% • 192 Mb/s 8:00am • 5:00pm Weekdays					Ø	51.9 GB		0 bytes	\$		
Archiver														
Web Security														
Vulnerability Manager														
Mobile Devices			AWS (Amazon Web Services) AWS Account: cuda-aws-test. Region: us-east-2											
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		Bandwidth Rate Limit: Default Full Speed, Alternate 30% - 165 Mb/s 8:00am - 5:00pm Weekdays												
		Receiving [Data From											
		Source List	t							Status	Total Stored	Queue Age	Queue Size	
		There are no Barracuda Backup devices sending data to this device.												



Figures

- 1. MultipleVideo.png
- 2. AWSSetup.png
- 3. AWSWizard_download.png
- 6. SelectTemplate.png
- 7. StatusCreateComplete.png
- 10. SpecifyAmazonS3.png
- 11. CreateVMimport.png
- 12. Create Complete.png
- 15. AddAWSCredentials01.png
- 16. PhysicalID.png
- 17. CopyRoleARN.png
- 18. ClickStep3.png
- 19. Verification.png
- 20. AWSBBS.png
- 23. S3BucketAgree.png
- 24. EditBandwidth.png

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