

Acronis

Acronis Storage 2.4

Backup Gateway Quick Start
Guide for Amazon S3 and EC2

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CHAPTER 1

About This Guide

This guide explains how to set up Acronis Backup Gateway (ABGW) on Amazon to store backups in the Amazon cloud.

Briefly, you will need to do the following:

1. Deploy an instance with Acronis Storage from an Amazon Machine Image (AMI) on Amazon EC2.
2. Obtain the password and log in to Acronis Storage management panel.
3. Set up Acronis Backup Gateway to work with the Amazon cloud.

All these steps are described in the next chapters.

Note: Common tasks related to Backup Gateway are described in the more general *Acronis Backup Gateway Quick Start Guide*:

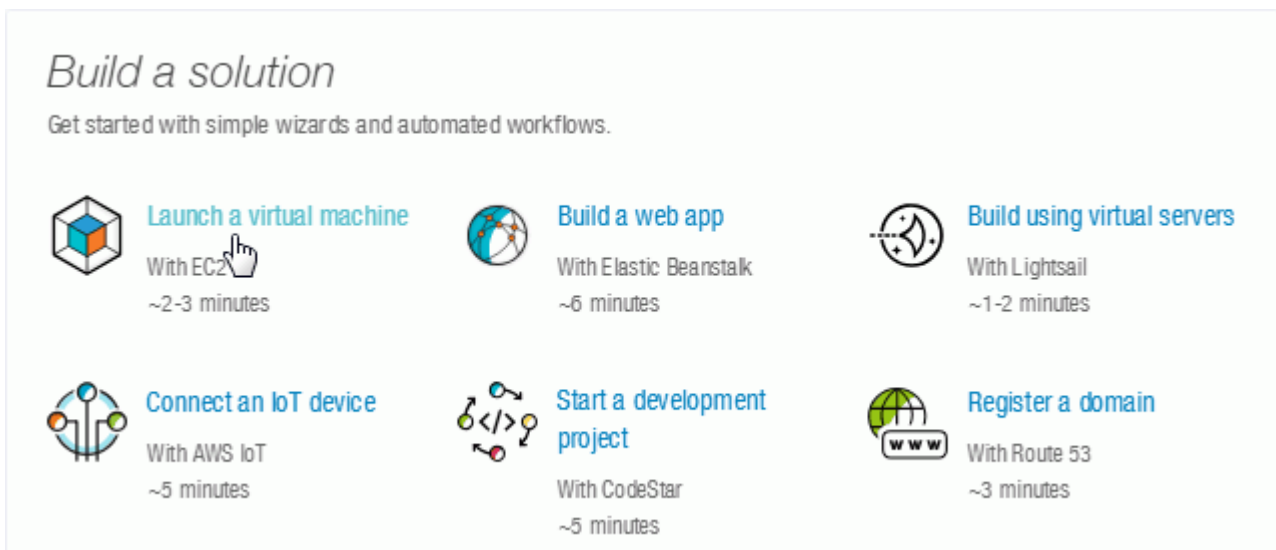
- Connecting to Public Cloud Storage via Acronis Backup Gateway
- Migrating Backups from Older Solutions
- Monitoring Acronis Backup Gateway
- Releasing Nodes from Acronis Backup Gateway

CHAPTER 2







Launching Acronis Storage Instance

First, you need to create and launch an instance with Acronis Storage. Do the following:

1. In the AWS Console Home, click **Launch a virtual machine** and search for “Acronis Storage” on the AWS Marketplace.



Build a solution
Get started with simple wizards and automated workflows.

 Launch a virtual machine With EC2 ~2-3 minutes	 Build a web app With Elastic Beanstalk ~6 minutes	 Build using virtual servers With Lightsail ~1-2 minutes
 Connect an IoT device With AWS IoT ~5 minutes	 Start a development project With CodeStar ~5 minutes	 Register a domain With Route 53 ~3 minutes

2. Click **Select** by the found AMI.
3. On wizard step 2, choose the **t2.medium** type for the instance.

Step 2: Choose an Instance Type

	Family ▾	Type ▾	vCPUs ⓘ ▾	Physical Processor ▾	Memory (GiB) ▾
<input type="checkbox"/>	General purpose	t2.nano	1	Intel Xeon Family	0.5
<input type="checkbox"/>	General purpose	t2.micro Free tier eligible	1	Intel Xeon Family	1
<input type="checkbox"/>	General purpose	t2.small	1	Intel Xeon Family	2
<input checked="" type="checkbox"/>	General purpose	t2.medium	2	Intel Broadwell E5-2686v4	4
<input type="checkbox"/>	General purpose	t2.large	2	Intel Broadwell E5-2686v4	8

4. Wizard steps 3 to 5—**Configure Instance Details**, **Add Storage**, and **Add Tags**—are optional. You can skip them by clicking **NEXT**.

Note: Make sure, however, that the Acronis Storage cluster deployed in the instance has plenty of logical space for staging (keeping backups locally before sending them to the cloud). For example, if you perform backups daily, provide enough space for at least 1.5 days' worth of backups. For more details, see the [Administrator's Guide](#).

5. On wizard step 6, add two rules to a new security group to open ports 8888 and 44445 in addition to port 22 opened by default. Ports 22 (SSH) and 8888 (management panel) are required for instance administration and, for safety, must only be open to a narrow IP address range, from which the administrator will access the instance. Port 44445 is needed to receive backup traffic and connect with Cloud Management Console, so it must be open to all IP addresses.

Having added the rules, click **Review and Launch**

Step 6: Configure Security Group

Assign a security group: Create a new security group
 Select an existing security group

Security group name:

launch-wizard-1

Description:

launch-wizard-1 created 2018-03-28T16:08:39.429+03:00

Type <small>i</small>	Protocol <small>i</small>	Port Range <small>i</small>	Source <small>i</small>	Description
SSH ▼	TCP	22	Custom ▼ 0.0.0.0/0	e.g. SSH for
Custom TCP ▼	TCP	8888	Custom ▼ 0.0.0.0/0	WebCP
Custom TCP ▼	TCP	44445	Custom ▼ 0.0.0.0/0	ABGW

6. On wizard step 7, generate a new key pair to be able to access the instance via SSH. Download the key pair.

Important: Save the key in a safe place: make the key file readable only by you (e.g., `chmod 400 <key_file>` on Linux or Mac) and place it in a directory that only you can access (e.g., `chmod 700 <dir>` on Linux or Mac).

Select an existing key pair or create a new key pair



A key pair consists of a **public key** that AWS stores, and a **private key file** that you store. Together, they allow you to connect to your instance securely. For Windows AMIs, the private key file is required to obtain the password used to log into your instance. For Linux AMIs, the private key file allows you to securely SSH into your instance.

Note: The selected key pair will be added to the set of keys authorized for this instance. Learn more about [removing existing key pairs from a public AMI](#).

Create a new key pair ▼

Key pair name

abgw

Download Key Pair

⋮ You have to download the **private key file** (*.pem file) before you can continue. **Store it in a secure and accessible location.** You will not be able to download the file again after it's created.

Cancel

Launch Instances

7. Click **Launch Instance**.

Once the instance is running, you can access it by hostname found in instance details. For example: <https://ec2-18-197-117-93.eu-central-1.compute.amazonaws.com>.

CHAPTER 3

Obtaining Password and Logging in to Acronis Storage

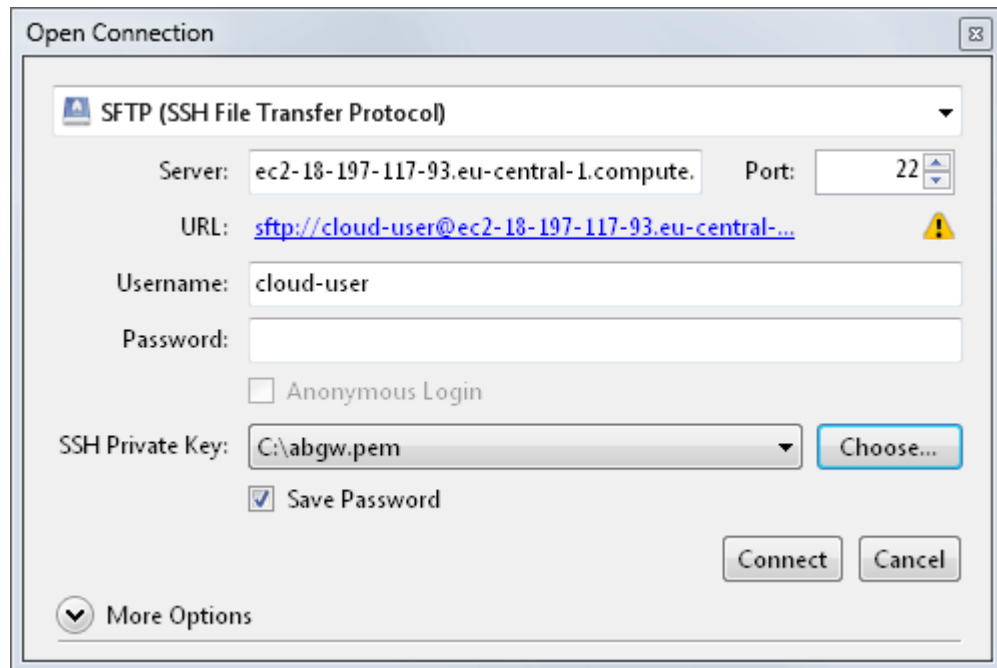
After launching the instance, you need to obtain the default Acronis Storage management panel password, which is stored inside the instance in `/.initial-admin-password`.

You can access the instance via SSH, using the previously generated key. For example, on Linux or Mac:

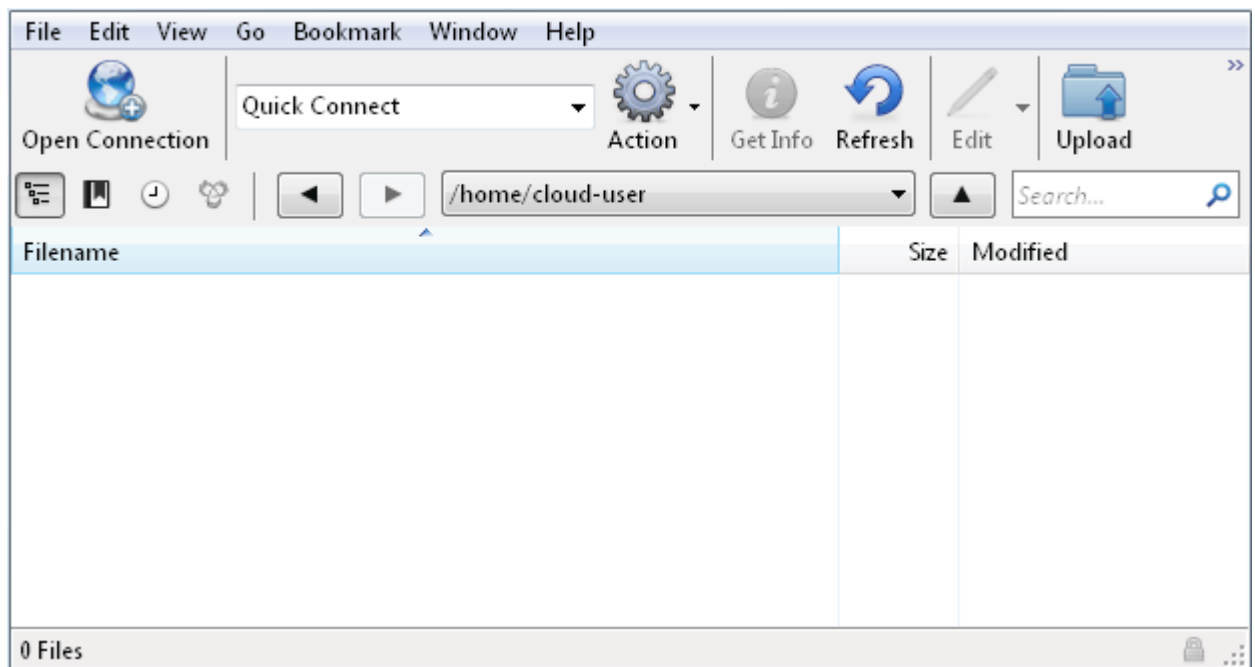
```
# chmod 400 astor-23.pem
# ssh -i astor-23.pem cloud-user@ec2-18-197-117-93.eu-central-1.compute.amazonaws.com
# cat /.initial-admin-password
```

Alternatively, you can access the password file via SFTP. For example, on Windows and Mac, you can use a program like CyberDuck:

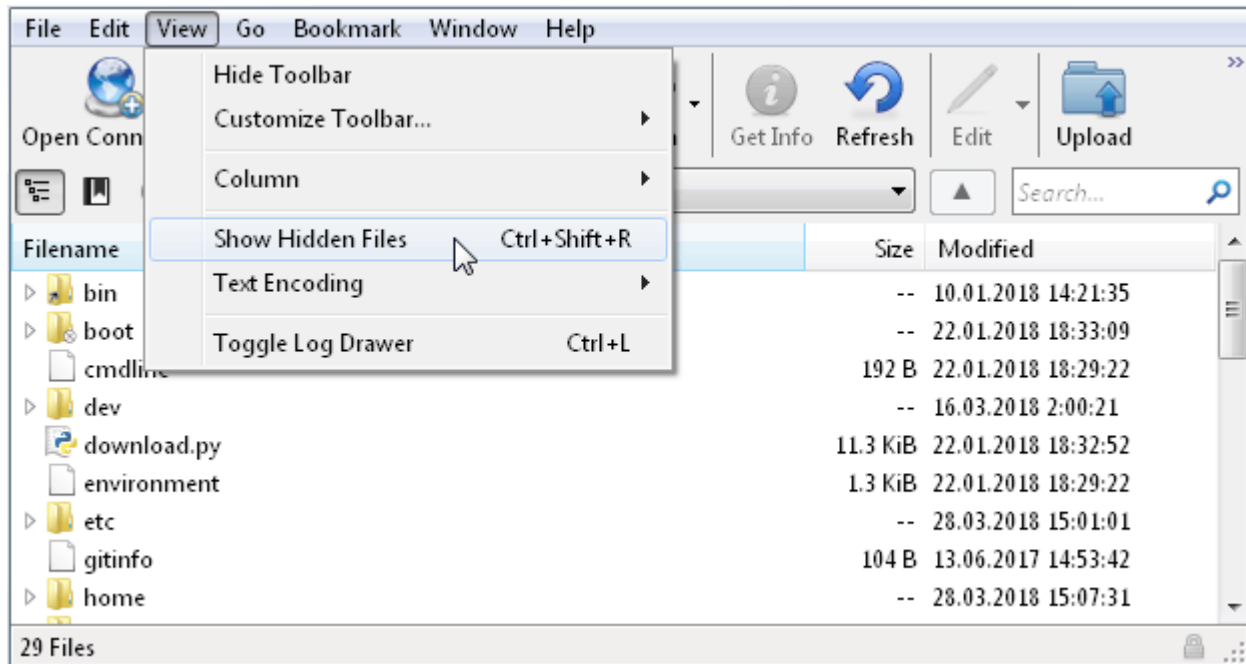
1. Click **Open Connection**.
2. Fill out the connection details: select **SFTP** as protocol, paste the instance hostname, enter user name `cloud-user`, and specify the previously generated key.



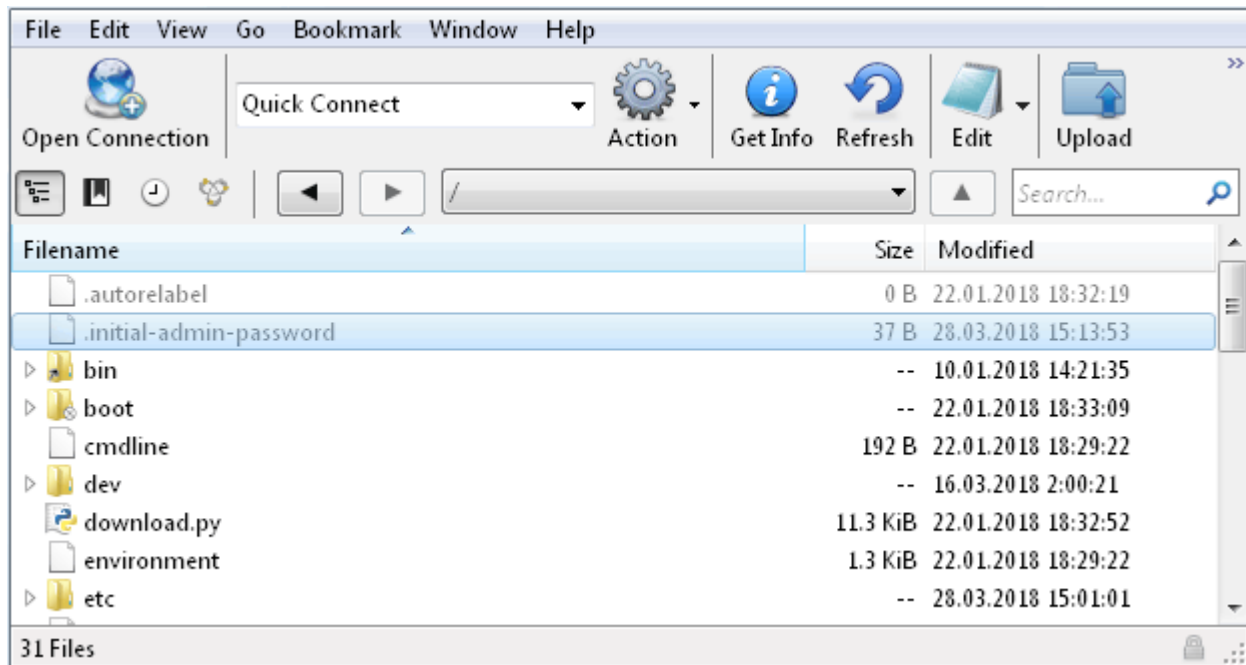
3. Click **Connect** and accept the server fingerprint.
4. Navigate to the home directory, i.e. /home/cloud-user.



5. The password file is hidden, so click **View > Show Hidden Files** in order to make it visible in the SFTP client.



6. Download and open the password file `.initial-admin-password`.



Using the password, log in to Acronis Storage management panel as `admin` at the instance hostname and port 8888. For example, <https://ec2-18-197-117-93.eu-central-1.compute.amazonaws.com:8888/>.

Note:

1. Consider changing the password to one that you will remember and that will be complex enough to resist a brute-force attack.
2. The instance will be using a self-signed certificate by default, so you will need to either accept it in the web browser or upload a valid certificate issued by a trusted authority.

Normally, the first step after installing Acronis Storage is to create a storage cluster. This is done automatically, however, when you launch an instance with Acronis Storage on Amazon EC2, so you can proceed directly to setting up Acronis Backup Gateway.

CHAPTER 4

Setting Up Acronis Backup Gateway

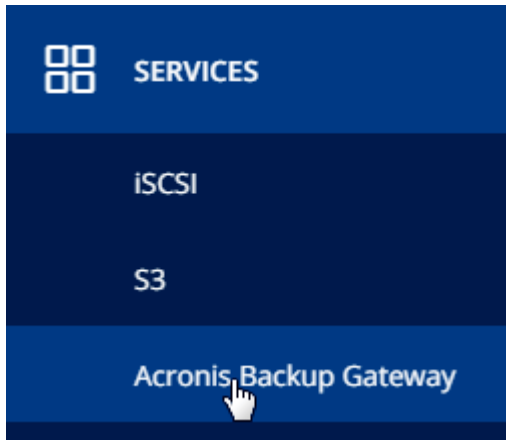
Important:

1. When working with public clouds, Acronis Backup Gateway uses the local storage (inside the VM) as the staging area as well as to keep service information. It means that the data to be uploaded to the cloud is first stored locally and only then sent to the destination. Because of this, you must make sure that the local storage is redundant and permanent. Using temporary disks may result in data loss.
2. You must update Acronis Backup Agents to version 12.0.4492 (Windows/Mac) or 12.0.4470 (Linux). Otherwise agents' attempts to place backups in the new storage backend will result in "Backup failed" errors.
3. If you are to store backups in an Amazon S3 cloud, keep in mind that Acronis Backup Gateway may sometimes block access to such backups due to the eventual consistency of Amazon S3. It means that Amazon S3 may occasionally return stale data as it needs time to render the most recent version of the data accessible. Acronis Backup Gateway detects such delays and protects backup integrity by blocking access until the cloud updates.

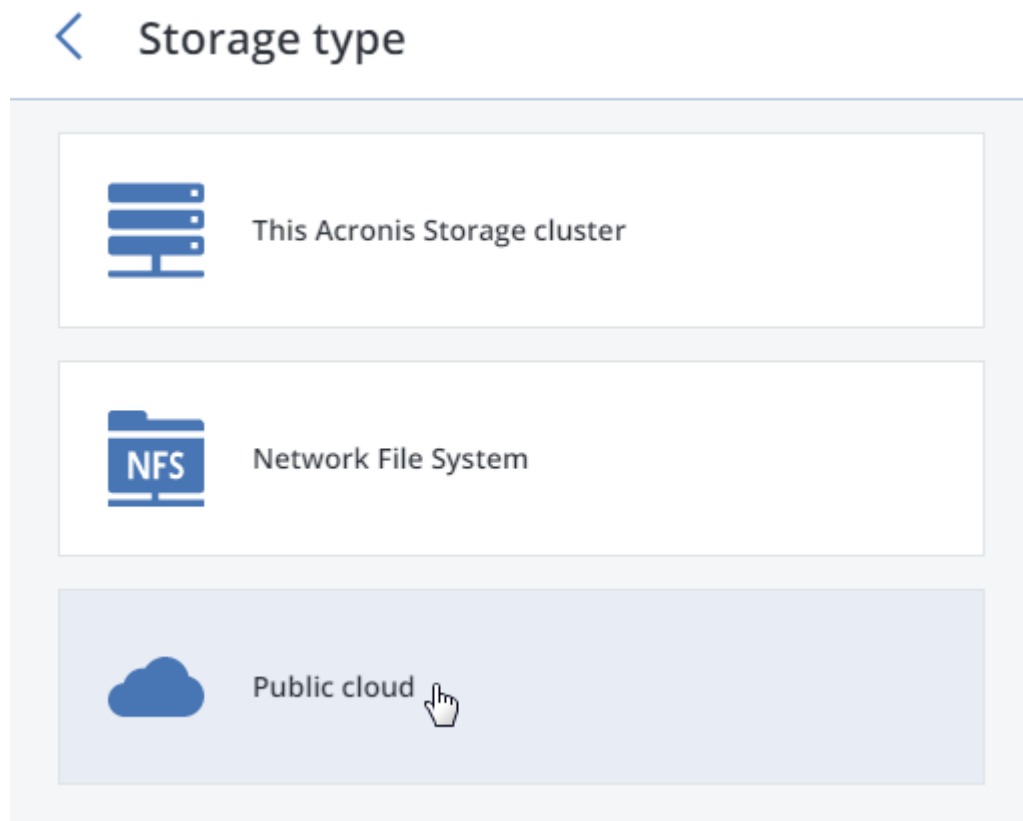
Before you proceed, make sure that the destination storage has enough space for backups.

To set up Acronis Backup Gateway, do the following:

1. In the left menu, click **SERVICES > Acronis Backup Gateway**.

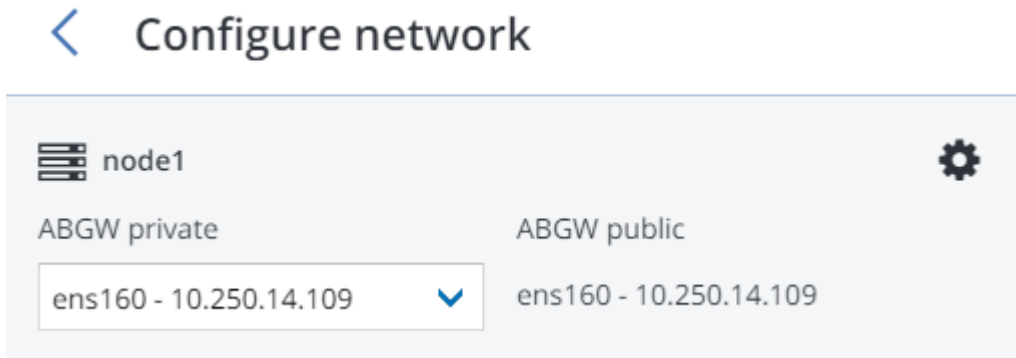


2. Select node(s) to run the gateway services on and click **Create gateway** in the right menu.
3. Select **Public Cloud** as storage type.



4. Make sure a network interface with the **ABGW private** role is selected in the drop-down list. The corresponding interfaces with the **ABGW public** role will be selected automatically. Click **NEXT**.

Note: If necessary, click the cogwheel icon and assign the required role(s) to network interfaces on the **Network Configuration** screen.



5. On the **Public cloud parameters** pane, select **Amazon S3**, the desired region, and fill out the keys and bucket information.

Important: The specified bucket folder must be writeable.

< Public cloud parameters

Select the object storage type

Amazon S3

Region

us-east-1

Access key ID

Secret Access key

Bucket

acronis-us-west-gateway-files

BACK NEXT

6. On the **Volume parameters** pane, leave volume parameters as they are.
7. On the **DNS configuration** pane, paste the instance hostname in the **DNS name** field.

< DNS configuration

DNS name

ec2-18-197-117-93.eu-central-1.compute.amazonaws.com

This may require changing the DNS server configuration, which may look as follows:

```
$TTL 1h
@ IN SOA ns1.myhoster.com. root.ec2-18-197-117-93.eu-
central-1.compute.amazonaws.com. (
    2018032713 ; serial
    1h ; refresh
    30m ; retry
    7d ; expiration
    1h ) ; minimum

; primary name server
NS ns1.myhoster.com.

; secondary name server
NS ns2.myhoster.com.

A 10.94.12.72
```

BACK

NEXT

8. On the **Registration** pane, specify the following information for your Acronis product:
 - In **Account Server Name**, specify the address of the Acronis Backup Cloud management portal (e.g., <https://cloud.acronis.com/>).
 - In **Acronis Account**, specify the credentials of a partner account in the cloud.

After setting up the Backup Gateway, log in to Acronis Backup Cloud and perform a test backup to the Amazon cloud to make sure that everything is working correctly.