

Advanced Grouping Report in CloudCheckr CMx

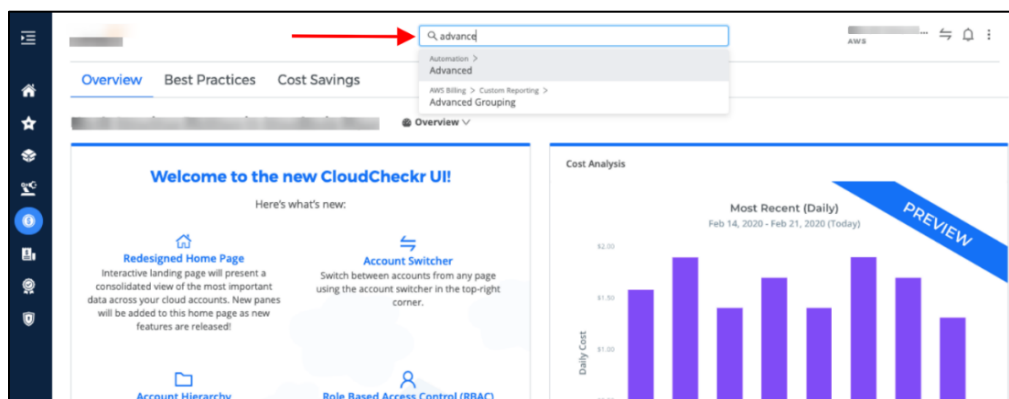
The Advanced Grouping Report is a powerful cost reporting tool that will help you better understand your cloud environment and costs. The Advance Grouping Report allows the user to have a full understanding of the architecture and pricing and can help navigate any future adjustments within your cloud environment.

The Advanced Grouping Report can be a great asset for anyone in accounting and billing, but it can also be very useful for anyone running a Managed Service Practice.

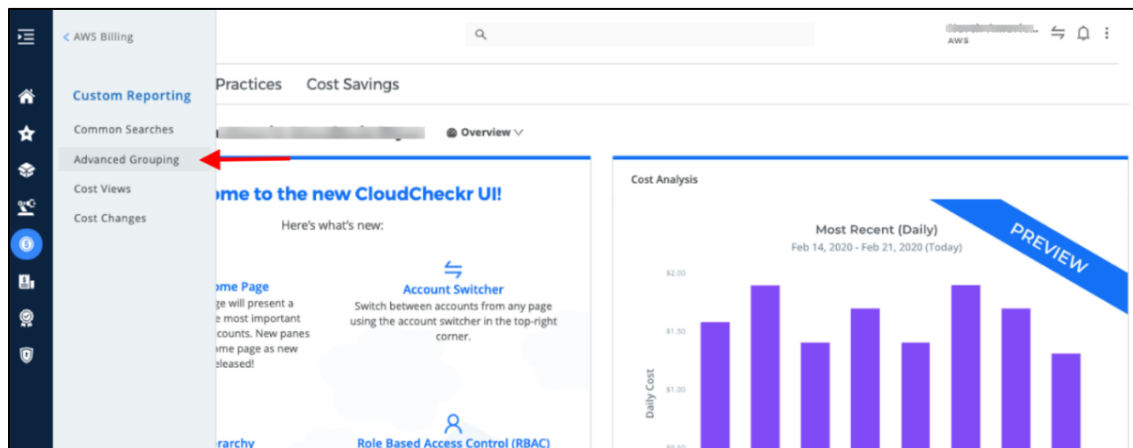
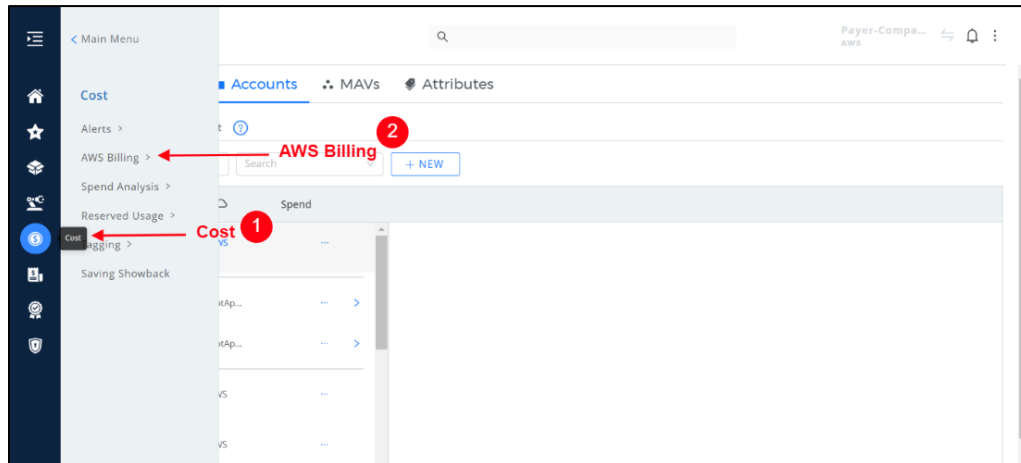
In CloudCheckr CMx (<https://app-us.cloudcheckr.com>), you may access the Advanced Grouping report from the payer account, the payee account or when you are in the Multi Account View (MAV)

*In Azure, you can access the Advanced Grouping report in Subscription or Multi Subscription Views, as well as Reseller Accounts

- Once you have entered the CloudCheckr environment and you have selected the account of your choice (Payer, Payee or MAV), you can access Advanced Grouping Reports 2 ways
 - Option 1 is to search for "Advanced Grouping" in the search bar



- Option 2 is to Navigate there: **Cost -> AWS Billing (or Azure Billing) -> Custom Reporting -> Advanced Grouping**



- On the Advance Grouping Page, you have the option to narrow down what you choose to include in the report. The different options are outlined below:

The screenshot shows the 'Advanced Grouping (w/ tags)' interface in CloudCheckr CMx. It features a sidebar with navigation icons and a main content area with several sections:

- Saved Filters:** A section at the top with a 'Select One' dropdown and a 'Delete Filter' button. It includes a note: 'Use Saved Filters to create daily, weekly, or monthly emails for costs by tags, resources, or any other filter combination.' and date range fields for 'Start' (03/17/2021) and 'End' (03/31/2021).
- Group By:** A section with a dropdown menu showing 'Service' and 'Description'. It includes a green '+' sign to add a level and a red '-' sign to delete a level.
- Options:** A section with various settings: 'Aggregate' (By Day), 'Cost Type' (Unblended), 'Chart Type' (Area), 'Resource ID' (text input), and checkboxes for 'Include Usage Quantity', 'Include Zero Costs', and 'Exclude Credits'.
- Filter By Tags:** A section with a list of tags: 'aws.autoscaling.groupName', 'Scraping01', 'Scraping-2', 'Scraping-3', 'Scraping-4', 'web-scraping-01Mec', 'web-scraping-02Al-a', and 'web-scraping-2Url-a'. It includes radio buttons for 'Show costs that have ALL these tags', 'Show costs that have ANY of these tags', and 'Exclude costs that have ANY of these tags'.
- Filters:** A section with multiple filter categories: 'Account' (048824450751, 085479309886, 089753618136, 113283099145), 'Region' (Asia Pacific (Tokyo), Asia Pacific (Seoul), Asia Pacific (Osaka), Asia Pacific (Mumbai)), 'AWS Service' (Athena, CloudFront, CloudTrail, CloudWatch, Cognito), 'Operation' (A, AAAA, AbortMultipartUpload, ANY), 'Usage Type' (APN1-BoxUsage, APN1-CWRequests, APN1-DataTransfer-In-Bytes, APN1-DataTransfer-Out-Bytes), and 'Reserved Instance' (True, False). It includes checkboxes for 'Account NOT in this selection', 'Region NOT in this selection', 'Service NOT in this selection', 'Operation NOT in this selection', and 'Usage type NOT in this selection'.

At the bottom, there are buttons for 'Filter', 'Reset', 'Save Filter', and 'Update Current Filter'. A note at the bottom says 'Click "Filter" above to load results.'

While this document uses terminology native to AWS, there are filtering functionalities for Azure that match the Azure billing files.

- Group By:** This selects the criteria for grouping search results. Click on the green + sign to add a level to the grouping and use the red minus sign to delete a level from the grouping (see image above).

Groupings can be done by the following parameters:

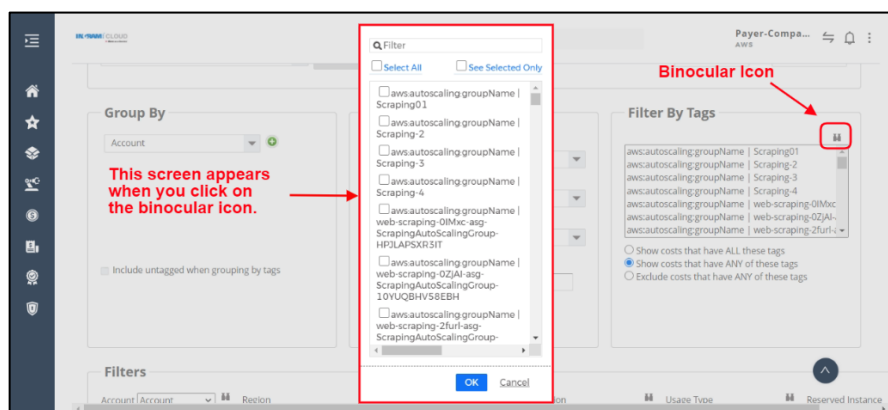
- Account
- Availability Zone
- Description: Lists the type of usage for a selected line item
- EC2 Instance ID: Unique identifier that AWS assigns to each EC2 instance
- Month
- Operation: Specific AWS operation that describes a line item's specific usage. For example, *RunInstances* indicates the operation of an Amazon EC2 Linux instance.
- Project Code: Represents an internal tracking number, project name, or chargeback code defined by the customer
- Region
- Reserved Instance: purchase option for EC2 instances that discounts the usage charge for instances that meet certain criteria
- Resource ID: Unique identifier for a selected AWS resource
- Service: Example: EC2, S3, CloudWatch
- Usage Type: Usage details for a line item. Example: *USW2-BoxUsage:m2.2xlarge* describes an M2 High Memory Double Extra-Large instance in the US West (Oregon) region.
- Week
- Tag Key: Specific value assigned to a resource within the AWS console

NOTE: You can select up to five levels of groupings for your data before CloudCheckr triggers a "large export job" and prompts you to enter an email address where it will send you a link to a .csv file (in place of a report appearing on screen).

For example, a typical report you might run could be grouped by *Service* first, then *Description*.

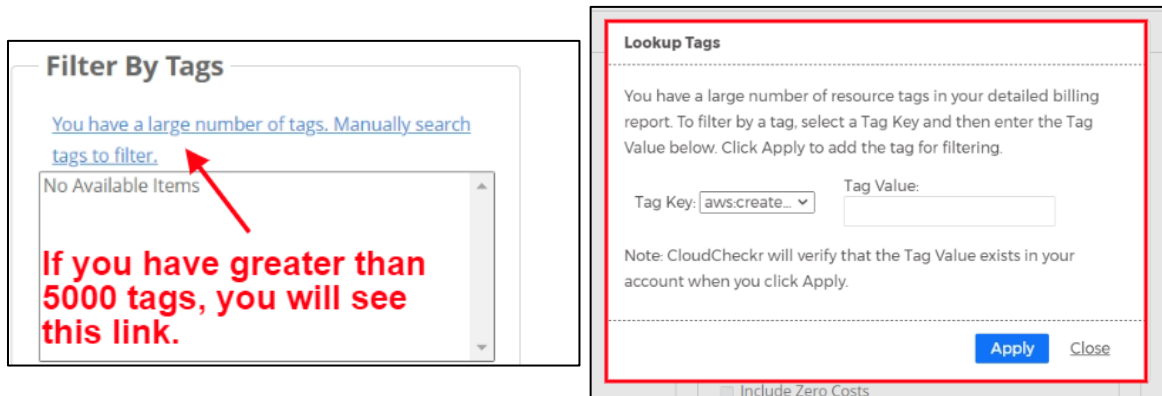
Please note that when you group by EC2 instance ID or Resource ID, or when a report contains 5 or more GroupBy criteria, CloudCheckr will email you a link to a .csv rather than producing an onscreen report

2. **Options:** This section allows you to refine the cost data in your search. You can configure the following parameters:
 - **Aggregate:** select to have chart data at an hourly, daily, weekly, or monthly interval.
 - **Cost Type:** identify the cost type you want to associate with your search.
 - Unblended - This is the cost that Ingram Micro bills to you
 - List – the sell price as determined by your CloudCheckr configurations
 - **Chart Type:** identify how you want CloudCheckr to display your data. Options include area, bar, column, or pie.
 - Under the Resource ID Option, you will see the following options:
 - Include Usage Quantity: click this box if you want to create an additional column on usage quantity, especially if you are grouping by Resource ID or EC2 Instance ID.
 - Include Zero Costs: click this box if you want to include any rows that have zero cost totals.
 - AWS has many things that write to a cost of zero, for example RIs that were purchased up front or RIs purchased in one account and consumed in another.
 - Exclude Credits: select if you want to exclude credits when you generate the Advanced Grouping report.
3. **Filter by Tags:** This section lets you limit your search to specific tags. You can select tags from a display box as shown below.



Whenever you click on the binocular icon on the Advance Grouping page, it allows you to view and search from the options available. It also allows you to “Select All” or “See Selected Only” after you have made your selections.

If you have greater than 5,000 tags, CloudCheckr will display a link stating: *You have a large number of tags. Manually search tags to filter.* Once you click on the link, a “Lookup Tags” dialog box opens.

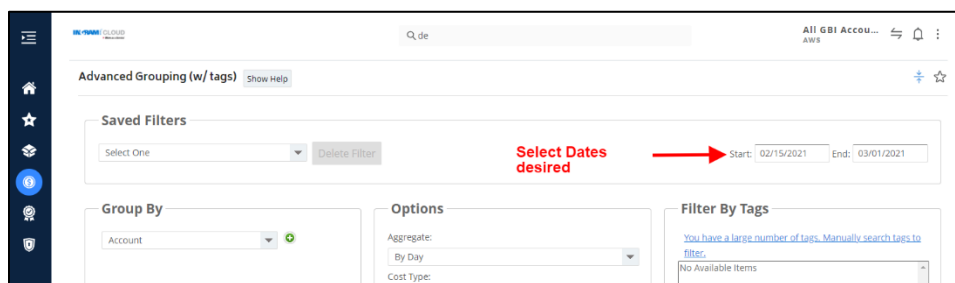


Please note that the most common selection under filter by tags is "Show costs that have ANY of these tags"



4. **Filters:** This section lets you select the specific parameters you want to include in your search. You can narrow down your search by: Accounts, Regions, AWS Services, Operations, Usage Type and Reserved Instances.

NOTE: Remember to enter the dates that reflect what you want to include in the report.



Once all criteria have been selected for the report, you can click "Filter" to produce the report or you can choose to save these selections (see below for more about Saved Filters).

The screenshot shows the 'Advanced Grouping (w/ tags)' interface. It includes sections for 'Saved Filters', 'Group By' (Service, Description), 'Options' (Aggregate, Cost Type, Chart Type, Resource ID, Include Usage Quantity, Include Zero Costs, Exclude Credits), and 'Filter By Tags'. At the bottom, there are buttons for 'Filter', 'Reset', 'Save Filter', and 'Update Current Filter'. Red arrows point to the 'Filter' and 'Save Filter' buttons.

Once the **report** is generated, it will appear at the bottom of the page. You also have the option to download the report (as a CSV or PDF file).

The screenshot shows the same interface with additional options at the bottom right: 'Download as CSV', 'Download as PDF', and 'Email'. Red arrows point to these options.

- Saved Filters:** Once you have created a filter set that you would like to reuse, you can save your Filter set. Click on "Save Filter" and enter a name for your filter.

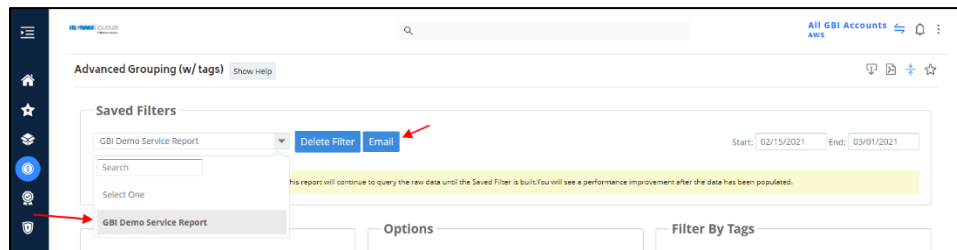
Once a filter has been saved, you have the option of scheduling delivery of the report (see below).

NOTE: It does take time to build and save your filter.

The 'Save Filter' dialog box contains the following elements:

- Text input field: GBI Demo Service Report
- Checkbox: ☐ Send email on saved filter build completion
- Email address field: @ingrammicro.com
- Buttons: Cancel, Save

If you have already saved a filter, it will appear in the "Saved Filters" drop down menu. You also have the option to search for your saved filter if you have multiple saved filters.



EMAILING REPORTS

Once you have selected from the Saved Filter drop-down, you have the option of emailing the report to either yourself or someone who also has CloudCheckr access. Once you click on "Email," you can choose to schedule it to be sent daily, weekly or monthly. You also have the option to include the CSV export within the email.

Email Report

Short Description

☐ Send this report daily to:

☐ Send this report weekly to:

☐ Send this report monthly to:

☐ Use the same email addresses for daily, weekly and monthly reports.

☐ To send to multiple emails, separate each email with a comma.

☐ Include CSV export within email

Cancel Save

The Advanced Grouping Report provides versatility in viewing your cloud costs with the ease of saving filters and scheduling delivery of reports right to your inbox