

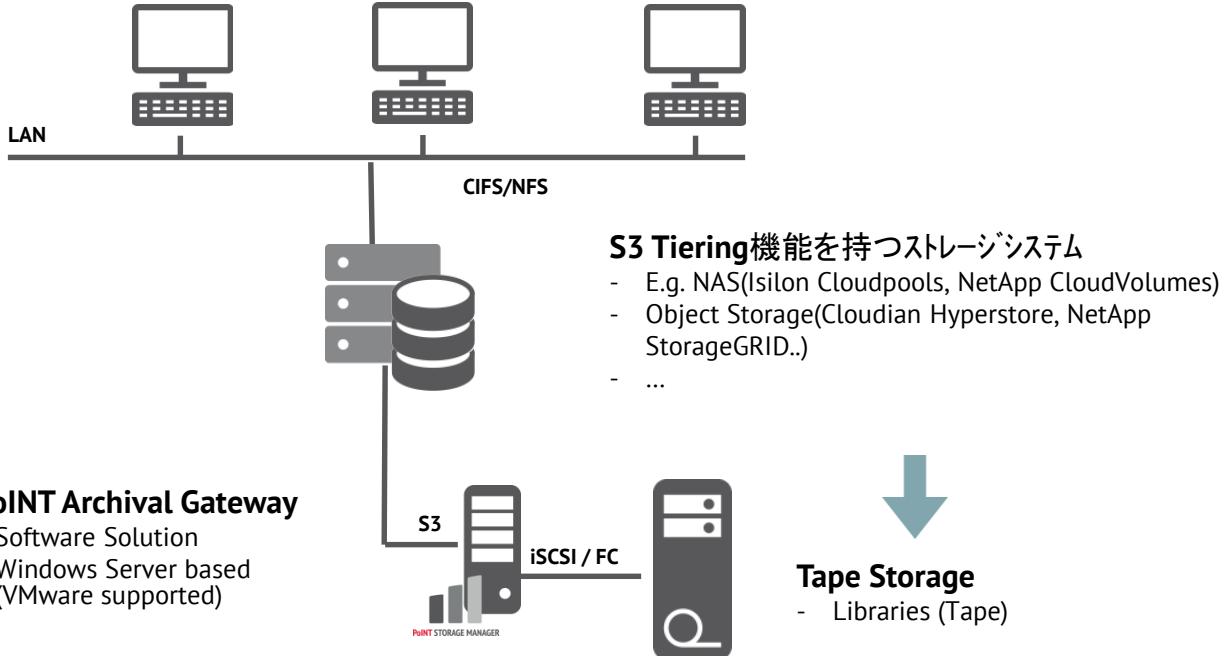
PoINT Archival Gateway

S3 Gateway for Tape

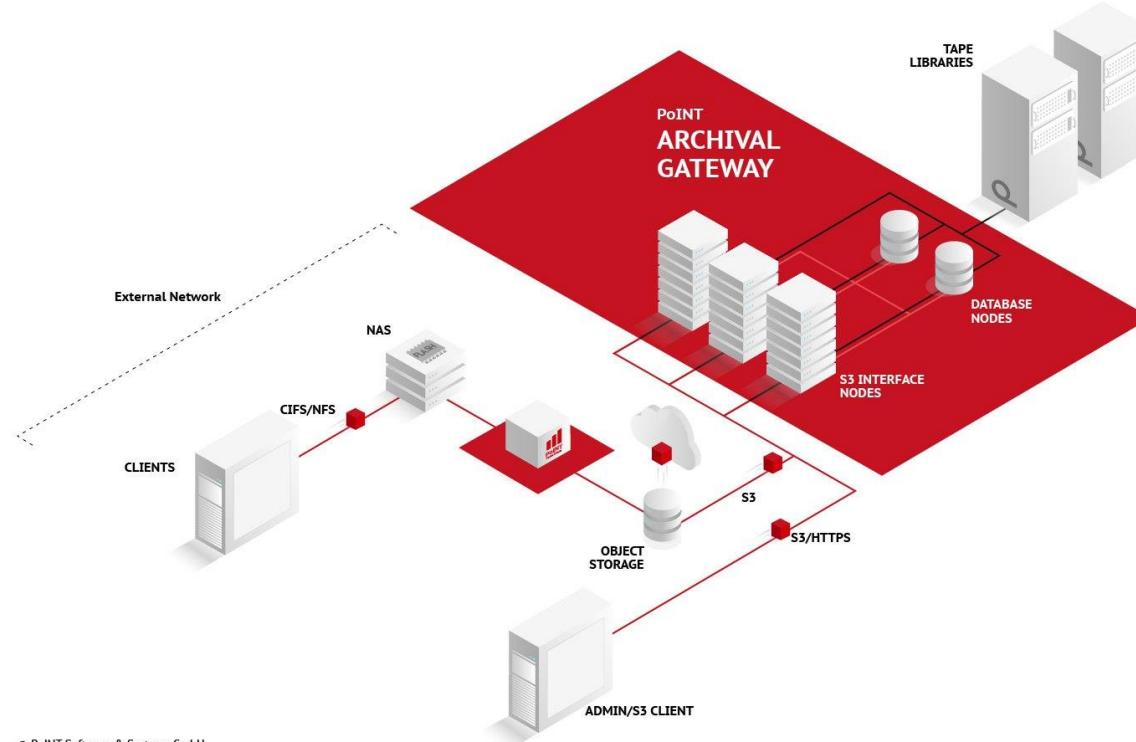
Solution Overview

POINT Software & Systems

Configuration Overview



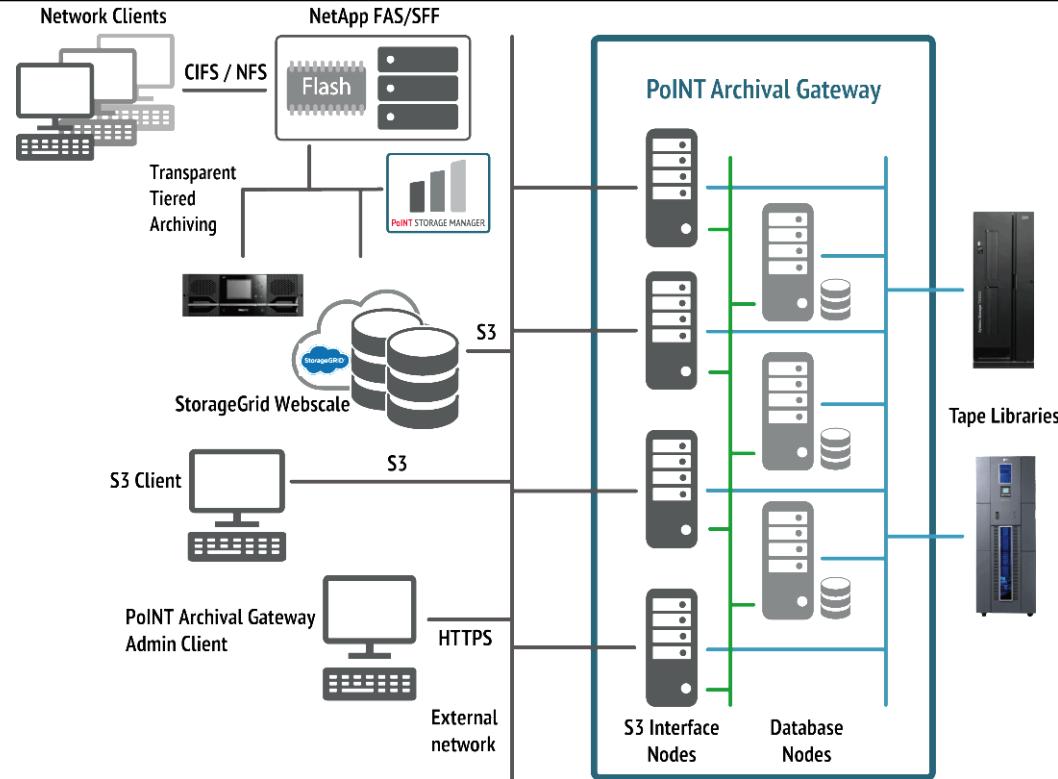
POINT Software & Systems



© PoINT Software & Systems GmbH

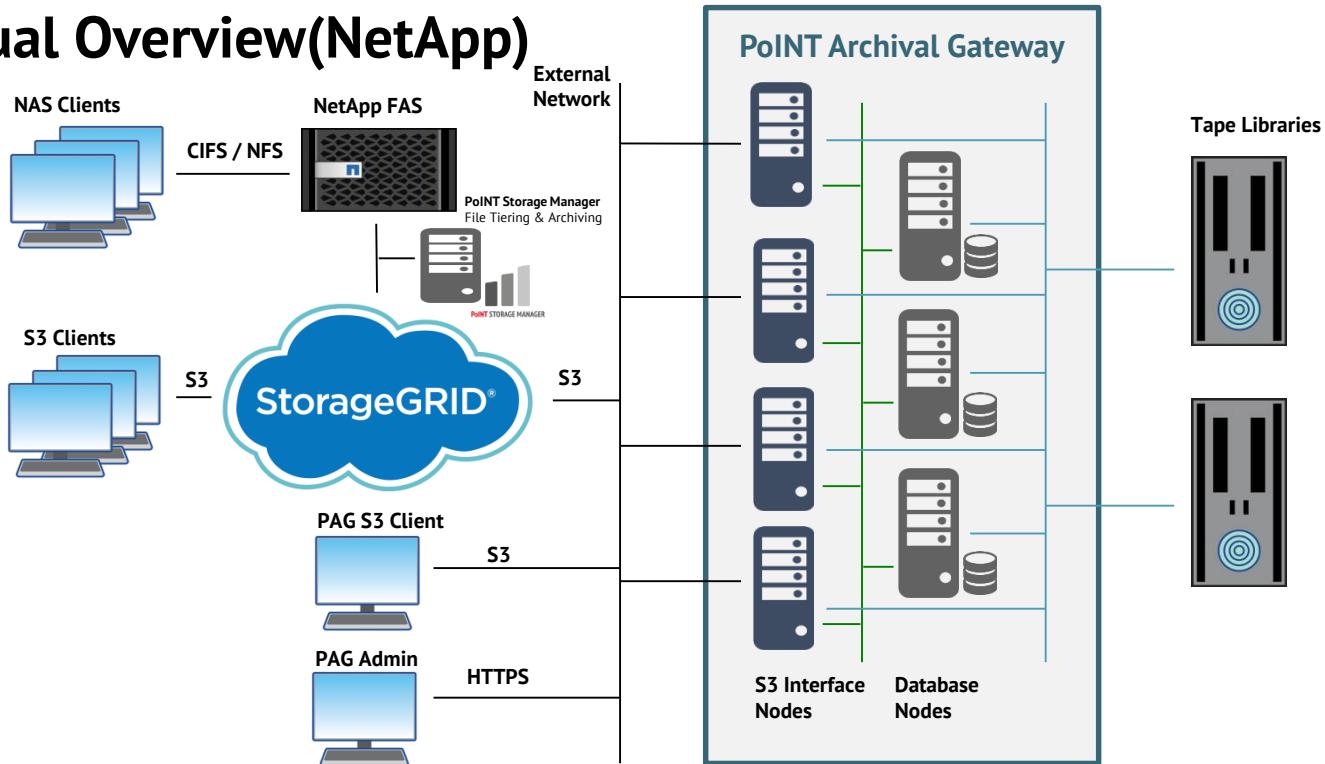
PoINT Software & Systems

Configuration Overview 2



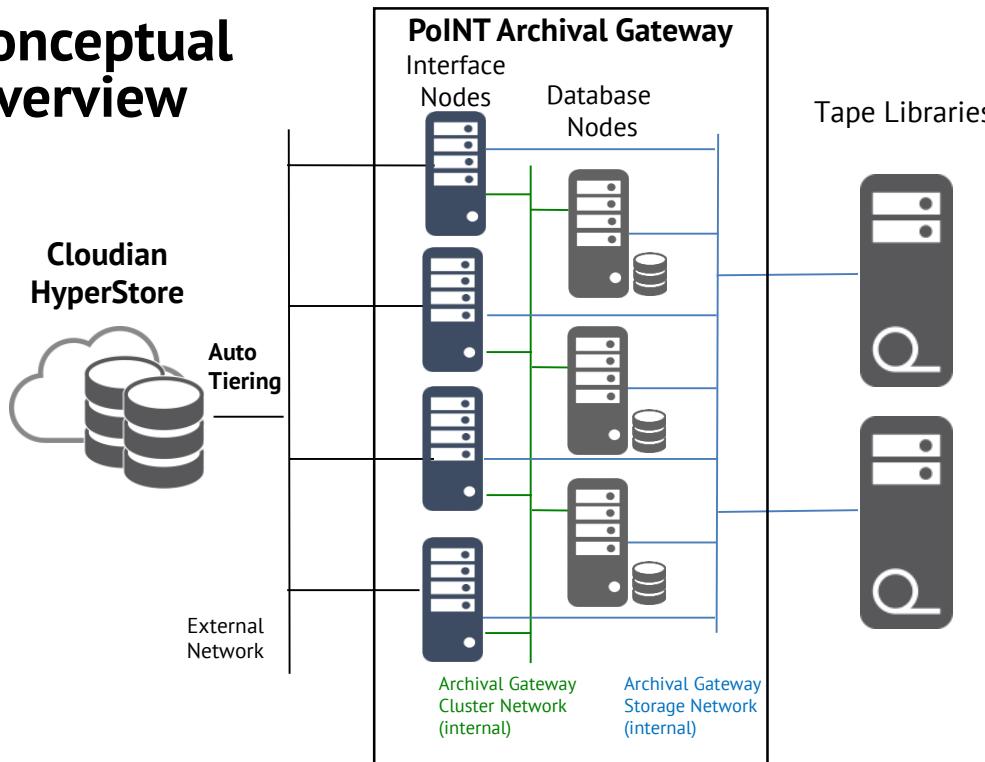
PoINT Software & Systems

Conceptual Overview(NetApp)



POINT Software & Systems

Conceptual Overview



Interface Node

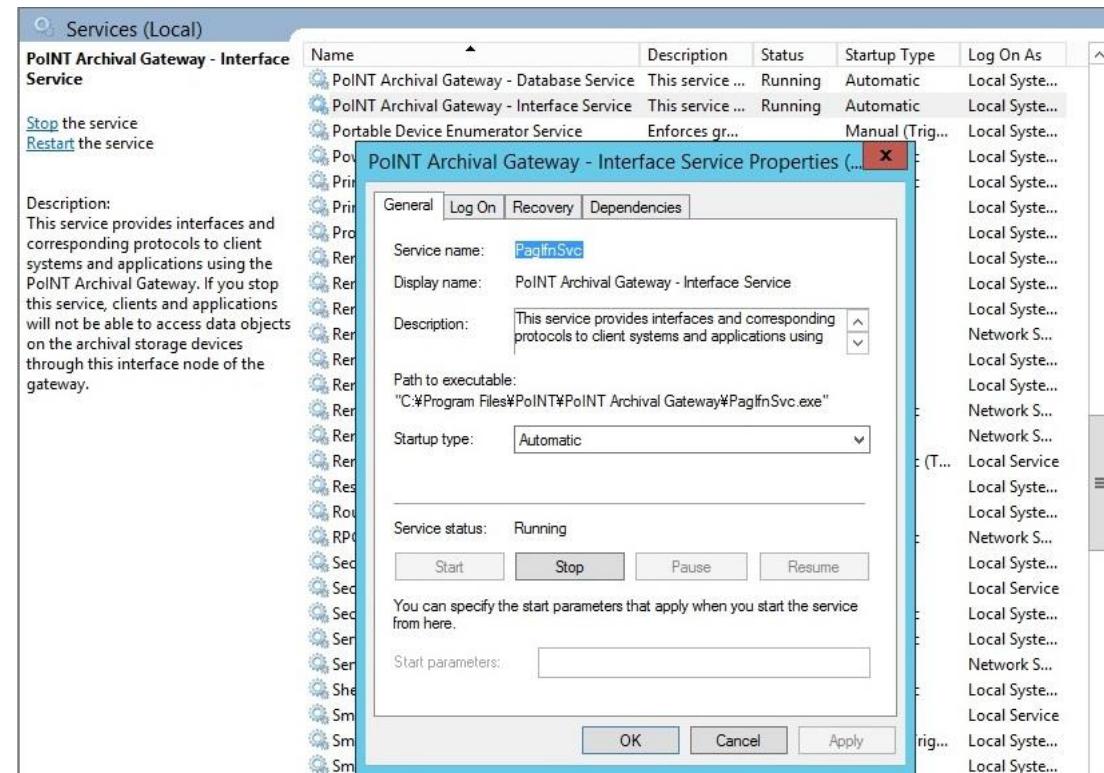
- Webサービス機能 (i.e. S3 REST API, Load Balancer)
- AWS S3 MPU(Multi-Part-Upload)にスケーラブルに対応
- データキャッシング機能 (i.e. リードと先読みキャッシング)
- データエンコード機能 (e.g. erasure coding, Hash演算, 暗号化)
- ドライブ管理機能 (LTOドライブを直接制御 read/write)
- メタデータキャッシング機能 (e.g. object metadataの先読み)
- データベースノードとの通信機能 (メタデータの共有)
- MPUの要件に応じてクラスター構成が可能

Database Node

- データベース管理機能
 - オブジェクトとメタデータのサービス
 - 動作設定のデータベース
 - Includes synchronous replication, backup and caching
- ライブラリー管理機能
 - ライブラリーのメディア移動の管理
 - システム動作の監視と管理
 - システム動作設定の管理(管理用Webサーバー)

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Interfaceノードとdatabaseノードは
サービスとして稼動します。
最小構成として、1台のサーバーで
同時に稼動します。



管理Webのスクリーンショット

管理WebはIISのアプリケーションとして稼動します。

System Cluster Nodes

| Name | Role | Address | Status | Logs | Statistics | Remove |
|-------|--------|--------------------|--------|------|------------|--------|
| DBN 1 | Active | 192.168.1.230:4000 | Up | | | |

Database Nodes

| Name | Role | Address | Status | Logs | Statistics | Remove |
|-------|--------|--------------------|--------|------|------------|--------|
| DBN 1 | Active | 192.168.1.230:4000 | Up | | | |

Interface Nodes

| Name | Role | Address | Status | Logs | Statistics | Remove |
|-------|--------|--------------------|--------|------|------------|--------|
| IFN 1 | Active | 192.168.1.230:4000 | Up | | | |

Dashboard



1
Partitions

[View Details](#)



5
Repositories

[View Details](#)



12.6 K
Objects

[View Details](#)



211.4 GB
Used Capacity

[View Details](#)

Nodes

| | |
|-------------------------------------|-------------------------------------|
| DBN 1 192.168.1.230:4000 | IFN 1 192.168.1.230:4000 |
|-------------------------------------|-------------------------------------|

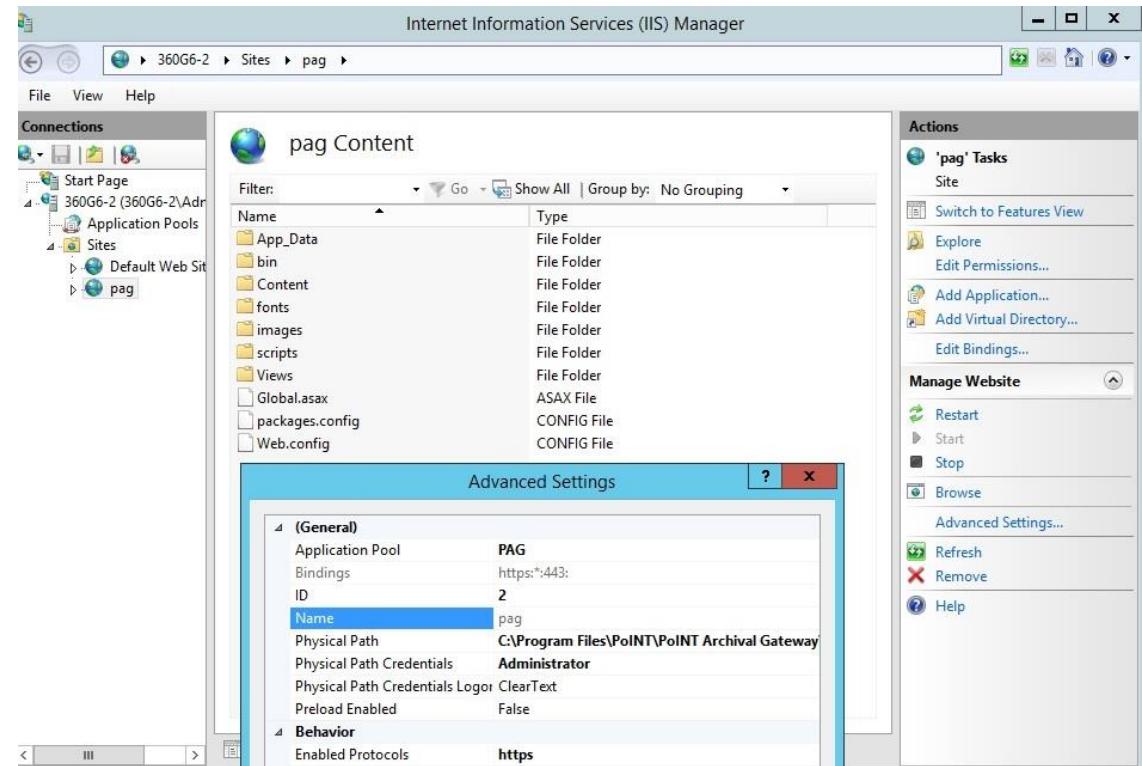
Devices

| | | | | |
|--------------|---------|--|--|--|
| Tape Library | Drive 1 | | | |
|--------------|---------|--|--|--|

Recent Storage Activity

| Repository Name | Partition Name | Device Name | Last Access Time |
|-----------------|----------------|-------------|---------------------|
| - | PT1 | TapeGeneric | 2019/04/05 12:09:42 |

管理WebはIISのアプリケーションとして稼動します。



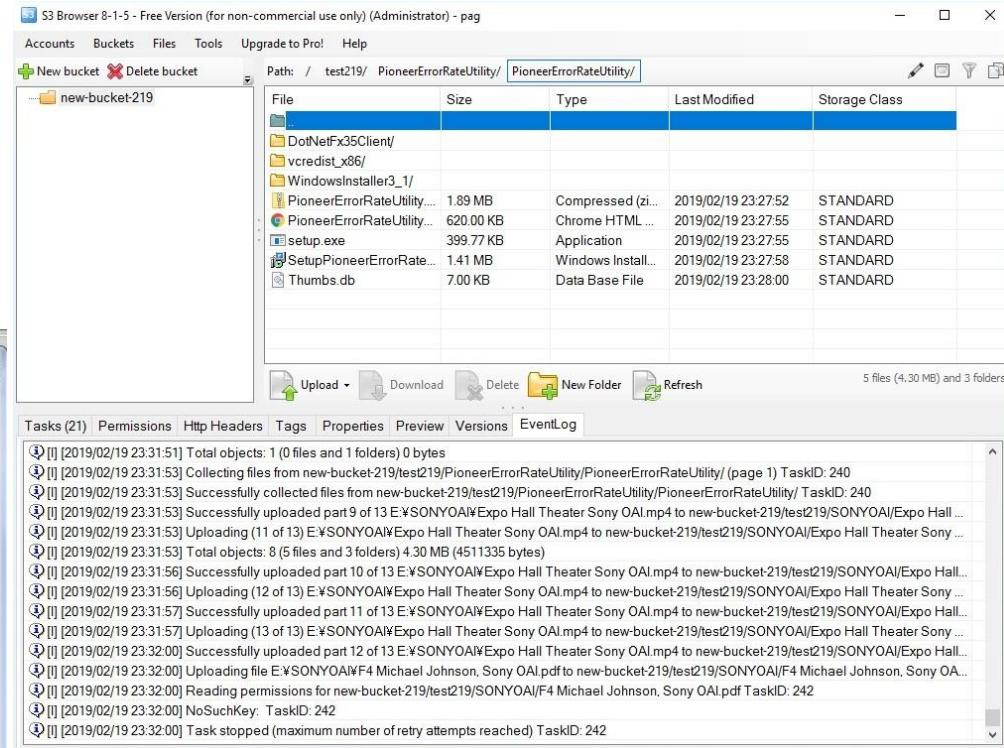
The screenshot shows the IIS Manager interface with the following details:

- Connections:** Shows the site structure: Start Page, 360G6-2 (360G6-2)\Address, Application Pools, Sites, Default Web Site, and pag.
- Content View:** A list of files and folders under the pag site, including App_Data, bin, Content, fonts, images, scripts, Views, Global.asax, packages.config, and Web.config.
- Advanced Settings Dialog:** Opened for the pag application pool, showing the following configuration:

| General | |
|---------------------------------|---|
| Application Pool | PAG |
| Bindings | https*:443; |
| ID | 2 |
| Name | pag |
| Physical Path | C:\Program Files\PoINT\PoINT Archival Gateway |
| Physical Path Credentials | Administrator |
| Physical Path Credentials Logon | ClearText |
| Preload Enabled | False |
| Behavior | |
| Enabled Protocols | https |
- Actions Panel:** Provides options for the selected site, including Tasks (Switch to Features View, Explore, Edit Permissions...), Add Application..., Add Virtual Directory..., Edit Bindings..., Manage Website (Restart, Start, Stop, Browse, Advanced Settings...), Refresh, Remove, and Help.

PoINT Software & Systems

S3クライアントからPAG/INTノードへの接続

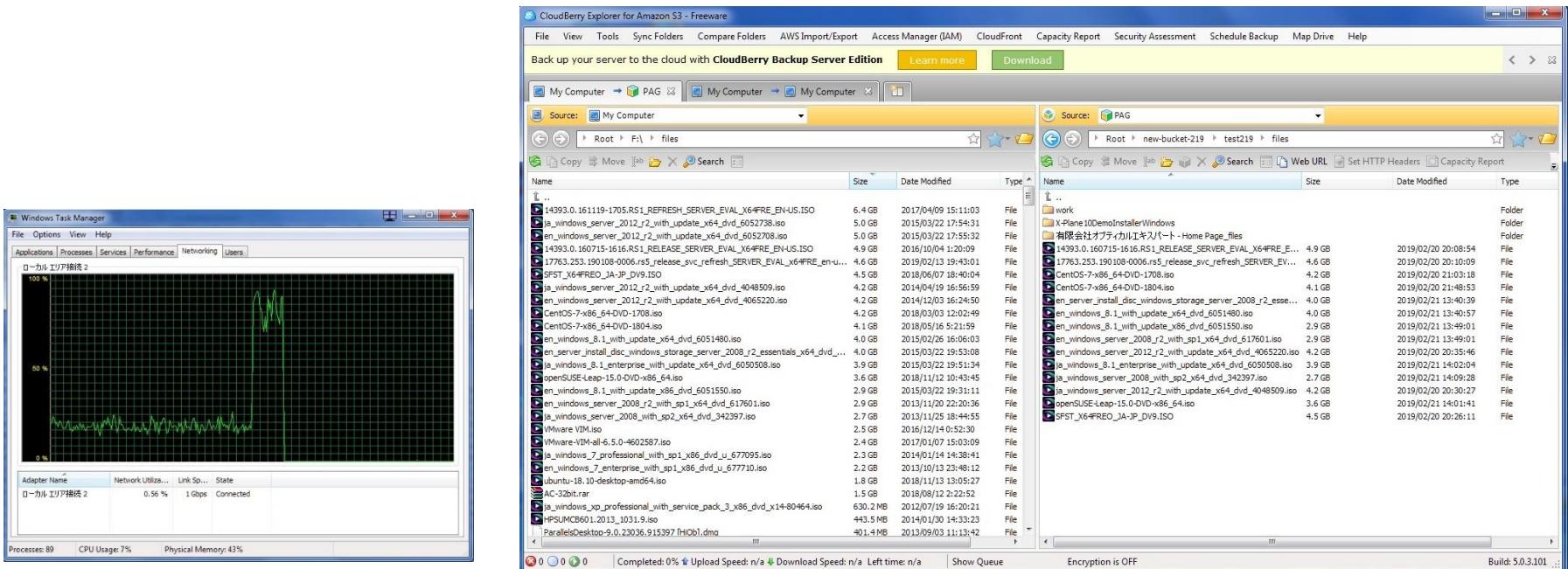
The screenshot shows the 'S3 Browser 8-1-5 - Free Version (for non-commercial use only) (Administrator) - pag' interface. The path is set to / test219/ PioneerErrorRateUtility/. The left sidebar shows a tree view with 'new-bucket-219' expanded. The main area displays a table of files:

| File | Size | Type | Last Modified | Storage Class |
|--------------------------------------|--|----------|---------------|---------------|
| DotNetFx35Client/ | | | | |
| vcredist_x86/ | | | | |
| WindowsInstaller3_1/ | | | | |
| PioneerErrorRateUtility... 1.89 MB | Compressed (zi... 2019/02/19 23:27:52 | STANDARD | | |
| PioneerErrorRateUtility... 620.00 KB | Chrome HTML ... 2019/02/19 23:27:55 | STANDARD | | |
| setup.exe 399.77 KB | Application 2019/02/19 23:27:55 | STANDARD | | |
| SetupPioneerErrorRate... 1.41 MB | Windows Install... 2019/02/19 23:27:58 | STANDARD | | |
| Thumbs.db 7.00 KB | Data Base File 2019/02/19 23:28:00 | STANDARD | | |

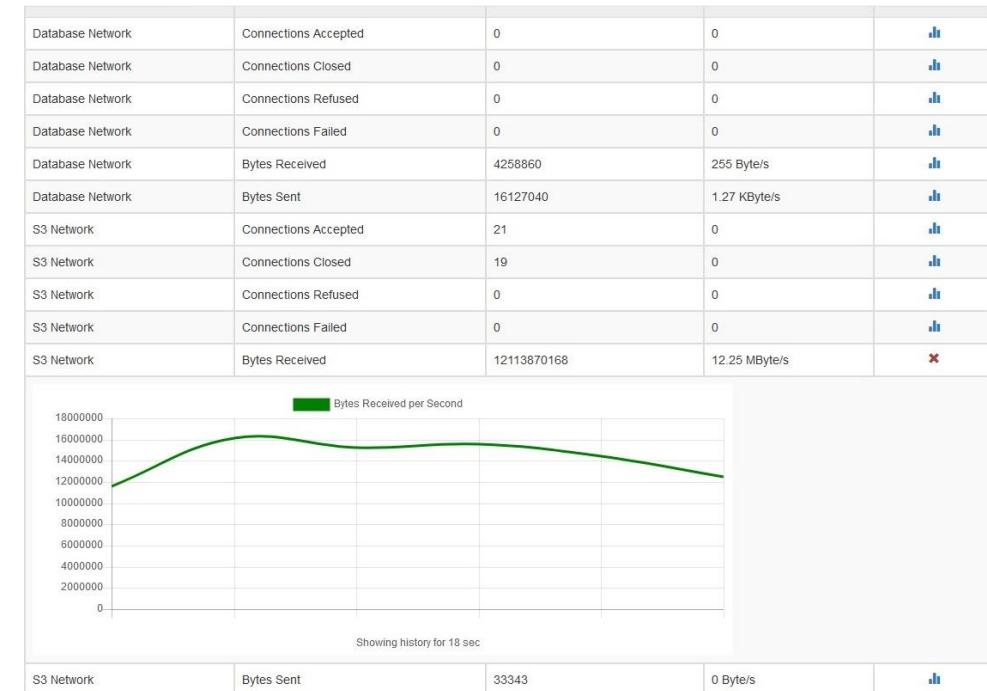
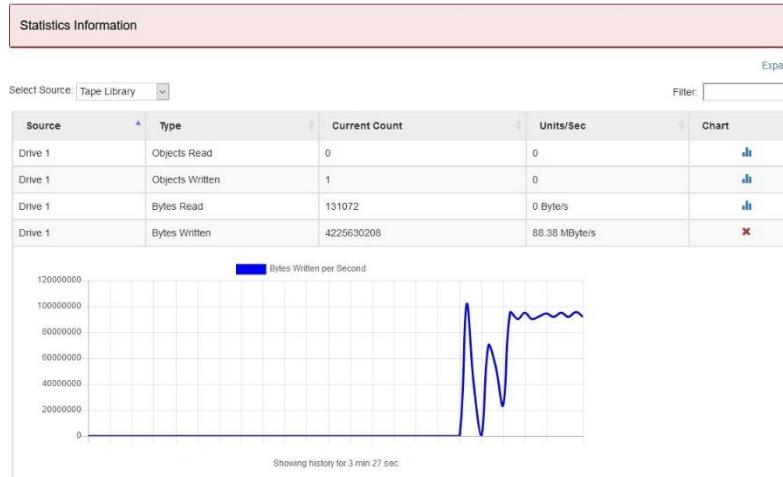
Below the table are buttons for Upload, Download, Delete, New Folder, and Refresh. A message at the bottom right indicates 5 files (4.30 MB) and 3 folders. The bottom pane shows a log of tasks:

- [I] [2019/02/19 23:31:51] Total objects: 1 (0 files and 1 folders) 0 bytes
- [I] [2019/02/19 23:31:53] Collecting files from new-bucket-219/test219/PioneerErrorRateUtility/PioneerErrorRateUtility/ (page 1) TaskID: 240
- [I] [2019/02/19 23:31:53] Successfully collected files from new-bucket-219/test219/PioneerErrorRateUtility/PioneerErrorRateUtility/ TaskID: 240
- [I] [2019/02/19 23:31:53] Successfully uploaded part 9 of 13 E:\SONYOA\Expo Hall Theater Sony OAI.mp4 to new-bucket-219/test219/SONYOA\Expo Hall...
- [I] [2019/02/19 23:31:53] Uploading (11 of 13) E:\SONYOA\Expo Hall Theater Sony OAI.mp4 to new-bucket-219/test219/SONYOA\Expo Hall Theater Sony...
- [I] [2019/02/19 23:31:53] Total objects: 8 (5 files and 3 folders) 4.30 MB (4511335 bytes)
- [I] [2019/02/19 23:31:56] Successfully uploaded part 10 of 13 E:\SONYOA\Expo Hall Theater Sony OAI.mp4 to new-bucket-219/test219/SONYOA\Expo Hall...
- [I] [2019/02/19 23:31:56] Uploading (12 of 13) E:\SONYOA\Expo Hall Theater Sony OAI.mp4 to new-bucket-219/test219/SONYOA\Expo Hall Theater Sony...
- [I] [2019/02/19 23:31:57] Successfully uploaded part 11 of 13 E:\SONYOA\Expo Hall Theater Sony OAI.mp4 to new-bucket-219/test219/SONYOA\Expo Hall...
- [I] [2019/02/19 23:31:57] Uploading (13 of 13) E:\SONYOA\Expo Hall Theater Sony OAI.mp4 to new-bucket-219/test219/SONYOA\Expo Hall Theater Sony...
- [I] [2019/02/19 23:32:00] Successfully uploaded part 12 of 13 E:\SONYOA\Expo Hall Theater Sony OAI.mp4 to new-bucket-219/test219/SONYOA\Expo Hall...
- [I] [2019/02/19 23:32:00] Uploading file E:\SONYOA\F4 Michael Johnson, Sony OAI.pdf to new-bucket-219/test219/SONYOA\F4 Michael Johnson, Sony OA...
- [I] [2019/02/19 23:32:00] Reading permissions for new-bucket-219/test219/SONYOA\F4 Michael Johnson, Sony OAI.pdf TaskID: 242
- [I] [2019/02/19 23:32:00] NoSuchKey: TaskID: 242
- [I] [2019/02/19 23:32:00] Task stopped (maximum number of retry attempts reached) TaskID: 242

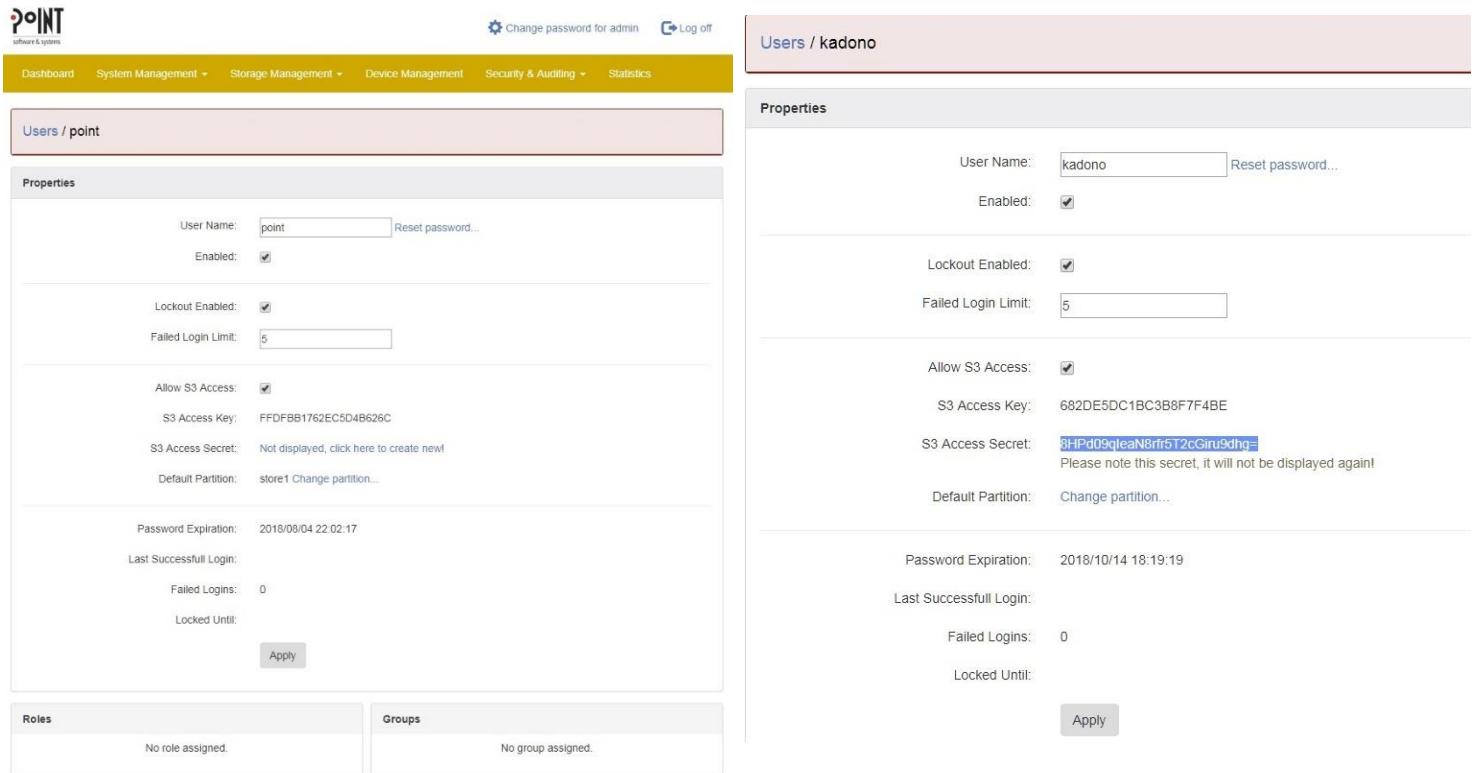
S3クライアント(CloudBerry)からPAG/INTノードへの接続



システムの稼動状況はリアルタイムで表示



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PAG管理WebからUser情報と作成

| Properties - point | | Properties - kadono | |
|-----------------------------------|--|-------------------------------------|-------------------------------------|
| User Name: | point | User Name: | kadono |
| Enabled: | <input checked="" type="checkbox"/> | Enabled: | <input checked="" type="checkbox"/> |
| Lockout Enabled: | <input checked="" type="checkbox"/> | Lockout Enabled: | <input checked="" type="checkbox"/> |
| Failed Login Limit: | 5 | Failed Login Limit: | 5 |
| Allow S3 Access: | <input checked="" type="checkbox"/> | Allow S3 Access: | <input checked="" type="checkbox"/> |
| S3 Access Key: | FFDFBB1762EC5D4B626C | S3 Access Key: | 682DE5DC1BC3B8F7F4BE |
| S3 Access Secret: | Not displayed, click here to create new! | S3 Access Secret: | 3HPd09qleaN8rfT2cGiru9dhg= |
| Default Partition: | store1 Change partition... | Default Partition: | Change partition... |
| Password Expiration: | 2018/08/04 22:02:17 | Password Expiration: | 2018/10/14 18:19:19 |
| Last Successfull Login: | | Last Successfull Login: | |
| Failed Logins: | 0 | Failed Logins: | 0 |
| Locked Until: | | Locked Until: | |
| Roles No role assigned. | | Groups No group assigned. | |
| Apply | | Apply | |

Object StorageからのS3 Tiering 接続

Cloudian HyperStore7.1.3

Add New Bucket Lifecycle Rule

RULE NAME OBJECT PREFIX ENABLE TIERING EXPIRE OBJECTS

OBJECT TIERING

SCHEDULE

CURRENT VERSION
 0 DAYS AFTER LAST ACCESS DATE/TIME AFTER DATE:

PREVIOUS VERSION

OBJECT TIERING BUCKET LEVEL SETTING

| DESTINATION | TIERING CREDENTIAL |
|--|--|
| <input type="radio"/> Tier to AWS S3 | Endpoint: <input type="text" value="http://s3-pag.office.optical-expert.jp:8080"/> |
| <input type="radio"/> Tier to AWS GLACIER | |
| <input type="radio"/> Tier to Google | |
| <input type="radio"/> Tier to Azure | |
| <input type="radio"/> Tier to Spectra | |
| <input checked="" type="radio"/> Tier to Custom Endpoint | Bucket Name: <input type="text" value="new-bucket-219"/> |

Retain Local Copy
 0 Days before removing local copy

LIFECYCLE RULE BUCKET LEVEL SETTING

Use Creation Date/Time Use Last Access Time

NetApp StorageGRID11.2 Cloud Storage Pool

NetApp® StorageGRID®

Help | Root | Sign In

Storage Pools

A storage pool is a logical group of Storage Nodes or Archive Nodes and is used in ILM rules to determine where object data is stored.

| Pool Name | Archive Nodes | Storage Nodes | Used in ILM Rule | Used in EC Profile |
|-------------------|---------------|---------------|-------------------------------------|--------------------|
| All Storage Nodes | 0 | 3 | <input checked="" type="checkbox"/> | |

Displaying 1 pool.

Viewing Storage Pool - All Storage Nodes

| Site Name | Archive Nodes | Storage Nodes |
|-----------|---------------|---------------|
| All Sites | 0 | 3 |

Cloud Storage Pools

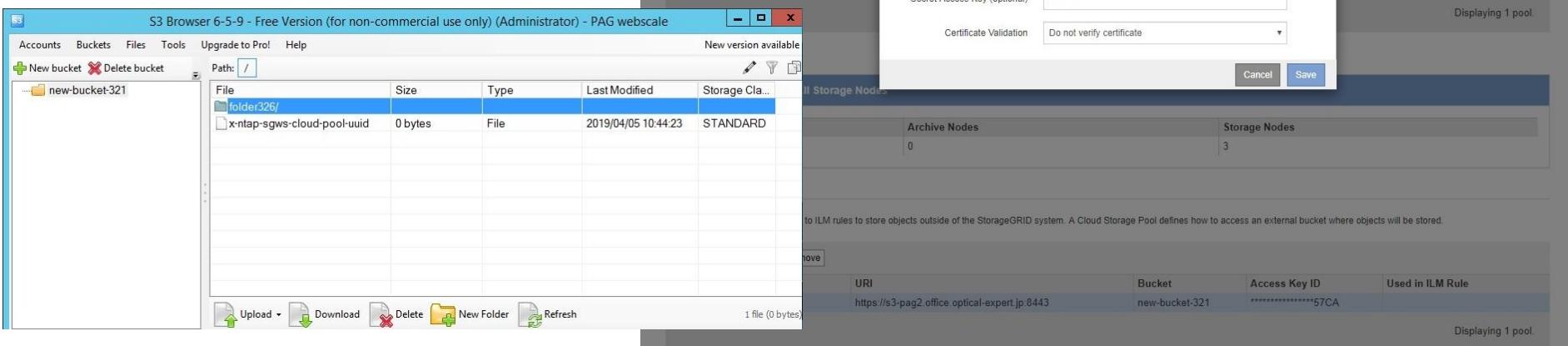
You can add Cloud Storage Pools to ILM rules to store objects outside of the StorageGRID system. A Cloud Storage Pool defines how to access an external bucket where objects will be stored.

| Pool Name | URI | Bucket | Access Key ID | Used in ILM Rule |
|------------------------|---|----------------|---------------|------------------|
| Point Archival Gateway | https://s3-pag2.office.optical-expert.jp:8443 | new-bucket-321 | *****57CA | |

Displaying 1 pool.

StorageGRID11.2 Cloud Storage Poolとして稼動

Cloud Storage Poolとして設定されると
x-ntap-sgws-cloud-pool-uuidが作成



The screenshot illustrates the integration of NetApp StorageGRID with S3 Browser. On the left, the S3 Browser interface shows a bucket named 'new-bucket-321' containing a file named 'x-ntap-sgws-cloud-pool-uuid'. This file represents the configuration for the Cloud Storage Pool. On the right, the 'Edit Cloud Storage Pool - PoINT Archival Gateway' dialog box is open in the StorageGRID web interface, displaying the same configuration details: URI (https://s3-pag2.office.optical-expert.jp:8443), Bucket (new-bucket-321), Access Key ID (*****57CA), and Secret Access Key (*****). The 'Certificate Validation' option is set to 'Do not verify certificate'.

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+ Create | Edit | Clone | Remove

StorageGRID11.2 ILM Rule設定

| Name | Used In Active Policy | Used In Proposed Policy |
|---------------|-----------------------|-------------------------|
| Copy_to_PAG2 | ✓ | |
| Copy_to_PAG | | |
| Make 2 Copies | | |

Copy_to_PAG2

Tenant Account: hiro (26153200316757331962)
Bucket Name: equals 'bucket322'
Reference Time: Ingest Time
Filtering Criteria:

Matches all of the following metadata:

| | | | |
|-----------------|----------------------------|--------------|---|
| System Metadata | Object Size (MB) | greater than | 1 |
| System Metadata | Ingest Time (microseconds) | equals | 0 |

Retention Diagram:

Trigger: Day 0
Duration: POINT Archival Gateway → Forever

StorageGRID11.2 ILM Policy設定 -1

NetApp® StorageGRID®

Help ▾ | Root ▾ | Sign Out

Dashboard Alarms Nodes Tenants ILM ▾ Configuration ▾ Maintenance ▾ Support ▾

ILM Policies

Review the proposed, active, and historical policies. You can create, edit, or delete a proposed policy; clone the active policy; or view the details for any policy.

| Policy Name | Policy State | Start Date | End Date |
|--------------------------|--------------|-------------------------|----------|
| Copy_PAG | Proposed | 2019-03-20 21:17:39 JST | |
| Baseline 2 Copies Policy | Active | | |

Viewing Proposed Policy - Copy_PAG

Errors in an ILM policy can cause irreparable data loss. Review and simulate the policy carefully before activating.

Review the rules in this policy. If this is a proposed policy, click Simulate to verify the policy and then click Activate to make the policy active.

Reason for change: PAG is added as Cloud Storage Pool

Rules are evaluated in order, starting from the top.

| Rule Name | Default | Tenant Account |
|----------------|---------|-----------------------------|
| Copy_to_PAG2 ↗ | ✓ | hiro (26153200316757331962) |

Simulate Activate

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ILM Policies

StorageGRID11.2 ILM Policy設定 -2

Review the proposed, active, and historical policies. You can create, edit, or delete a proposed policy; clone the active policy; or view the details for any policy.

| Policy Name | Policy State | Start Date | End Date |
|--------------------------|--------------|-------------------------|-------------------------|
| Copy_PAG | Active | 2019-04-16 13:57:10 JST | |
| Baseline 2 Copies Policy | Historical | 2019-03-20 21:17:39 JST | 2019-04-16 13:57:10 JST |

Viewing Active Policy - Copy_PAG

Review the rules in this policy. If this is a proposed policy, click Simulate to verify the policy and then click Activate to make the policy active.

Reason for change: PAG is added as Cloud Storage Pool

Rules are evaluated in order, starting from the top.

| Rule Name | Default | Tenant Account |
|--|-------------------------------------|----------------------------|
| Copy_to_PAG2  | <input checked="" type="checkbox"/> | hiro (2615320031675731962) |

Simulate ILM Policy - Copy_PAG

Simulates the active ILM policy or, if there is a proposed ILM policy, simulates the proposed ILM policy. Use this simulation to test the current configuration of ILM rules and determine whether ILM rules copy and place object data as intended.

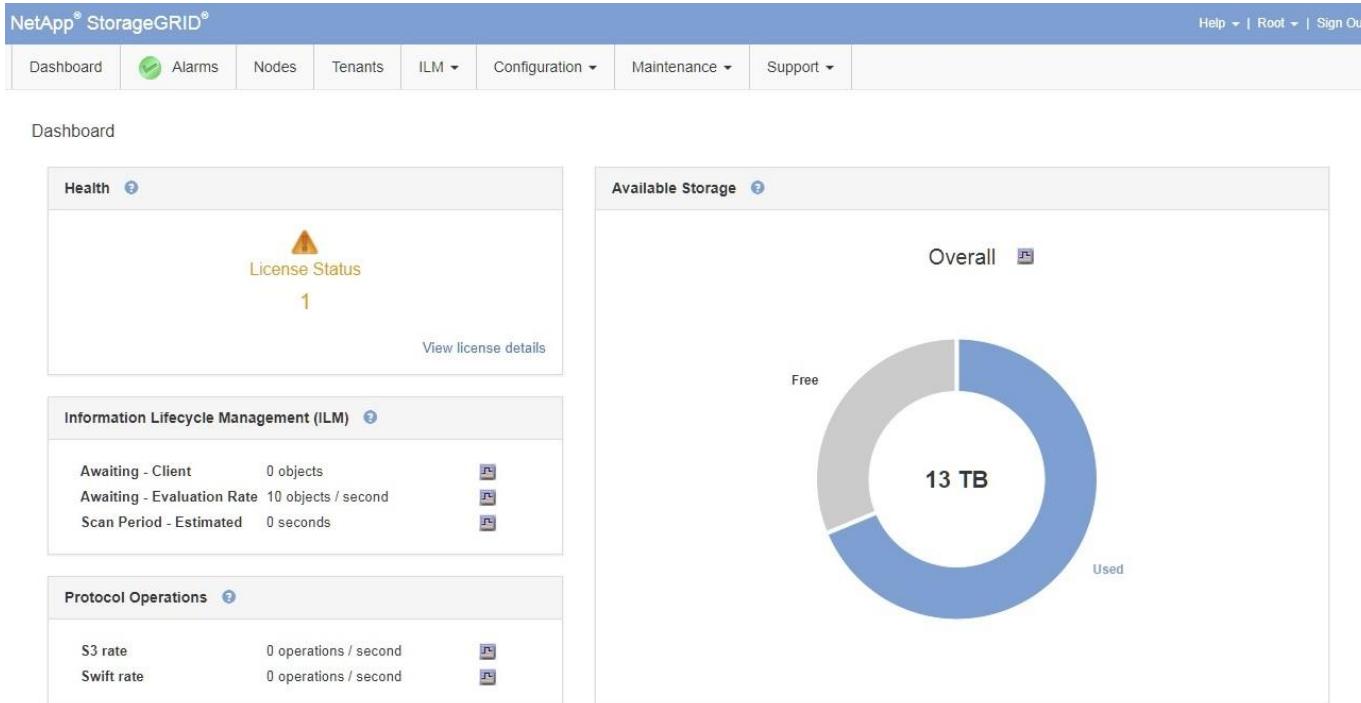
Object

Simulation Results

| Object | Rule Matched | Previous Match | |
|--|--|---|---------------------------------------|
| bucket322/sgws11/StoragegridWebscale11/StorageGRID_Webscale_1101.zip | Copy_to_PAG2  |  | <input type="button" value="Finish"/> |

POINT Software & Systems

StorageGRID11.2 Grid Manager



記録データの暗号化とリテンション(保管期限)の管理機能

Partitions / PT1

[Create Object Repository](#) [Show Protected Volume Arrays](#)

General Properties

| | |
|-----------------------|---------------------|
| Name: | PT1 |
| Creation Time: | 2019/03/02 10:37:22 |
| Modification Time: | 2019/04/05 12:09:42 |
| Last Access Time: | 2019/04/05 12:09:42 |
| Data Encryption Mode: | No encryption |

No encryption
No encryption (selected)
Encrypt using System Key
Encrypt using Private Key

リテンションは、バケット単位で設定

Partitions / PT1 / bucket307 / Retention Policy

Properties

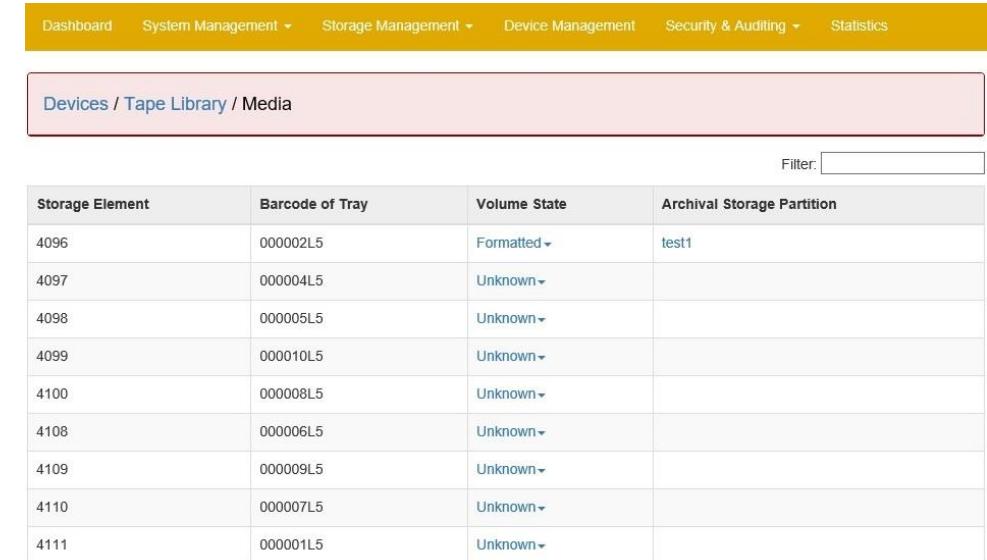
| | |
|--------------------|--------------------------|
| Creation Time: | |
| Modification Time: | |
| Absolute: | <input type="checkbox"/> |
| Retention Period: | 0 Days |
| Auto Destruction: | <input type="checkbox"/> |

Days (selected)
Weeks
Months
Years

Apply

PoINT Archival Gateway Tape Support

- Drives, Loaders, Libraries
 - Native support
 - IBM, HP, Overland, Tandberg, Quantum, Spectra Logic, StorageTek (ACSLSをサポート)
 - カートリッジのオフライン管理
- フォーマット
 - 独自仕様のテープフォーマット
 - 最初のBlock0にECMA13 volume labelで開始
 - 異なったサイズのメタデータと元データを保存可能
 - ブロック単位のエラーコード



The screenshot shows a web-based management interface for tape storage. At the top, there is a navigation bar with links: Dashboard, System Management, Storage Management, Device Management, Security & Auditing, and Statistics. Below the navigation bar, the path 'Devices / Tape Library / Media' is displayed. A search bar labeled 'Filter:' is present. The main content area is a table with the following columns: Storage Element, Barcode of Tray, Volume State, and Archival Storage Partition. The table lists 12 rows of data, each corresponding to a storage element with a unique barcode and volume state.

| Storage Element | Barcode of Tray | Volume State | Archival Storage Partition |
|-----------------|-----------------|--------------|----------------------------|
| 4096 | 000002L5 | Formatted▼ | test1 |
| 4097 | 000004L5 | Unknown▼ | |
| 4098 | 000005L5 | Unknown▼ | |
| 4099 | 000010L5 | Unknown▼ | |
| 4100 | 000008L5 | Unknown▼ | |
| 4108 | 000006L5 | Unknown▼ | |
| 4109 | 000009L5 | Unknown▼ | |
| 4110 | 000007L5 | Unknown▼ | |
| 4111 | 000001L5 | Unknown▼ | |

Erasure Codingでパラレルに
LTOドライブでデータ記録
3/4では、3データ、1parity

Device Related Properties

Device Type: Tape Library

Erasure Code Rate: 1/1

Media Allocation Strategy: 1/1

Media Pre-Allocation Threshold:

Media Parallelism:

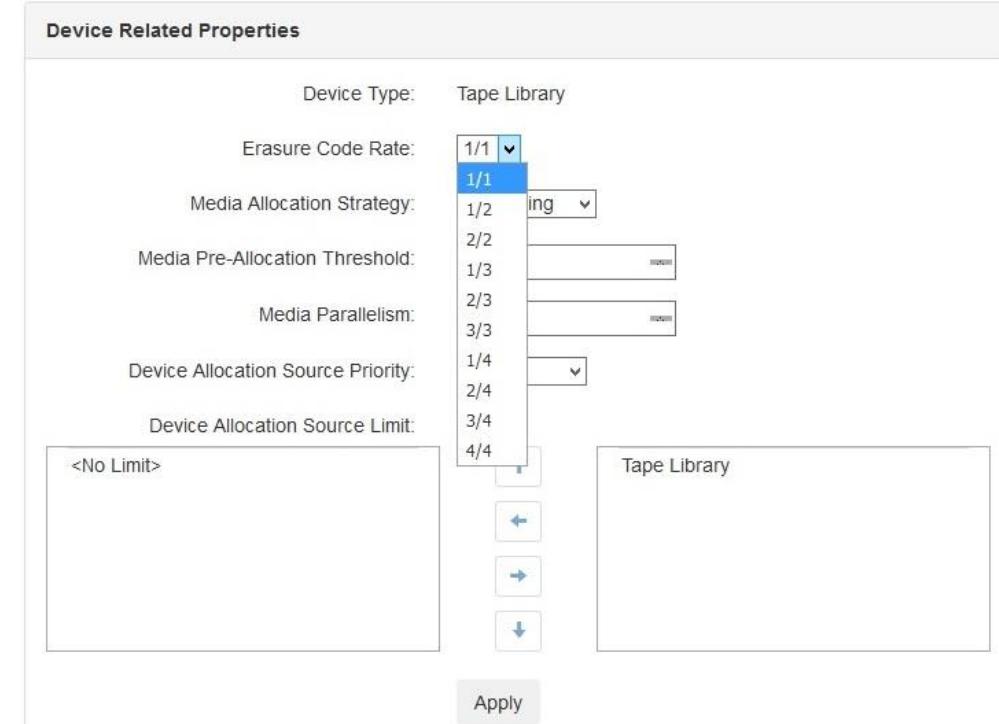
Device Allocation Source Priority:

Device Allocation Source Limit: <No Limit>

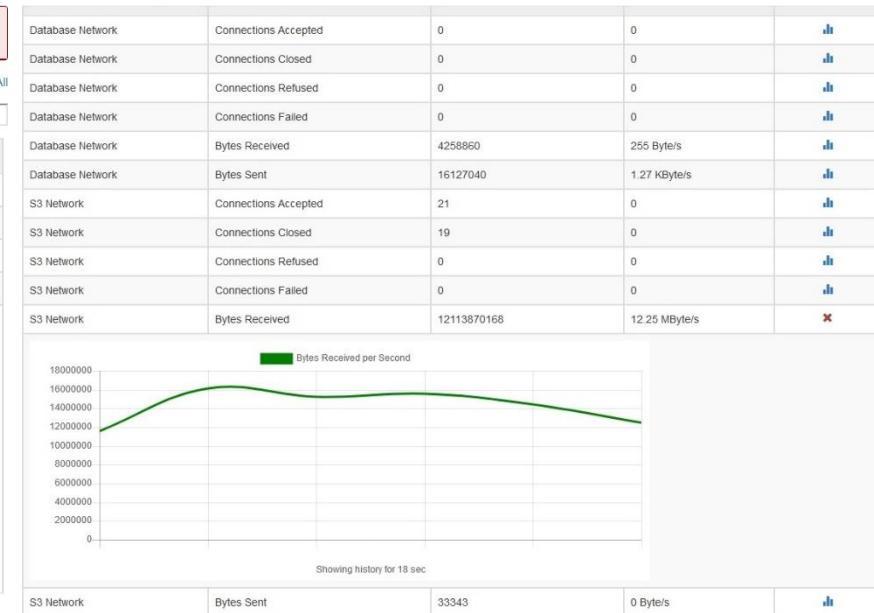
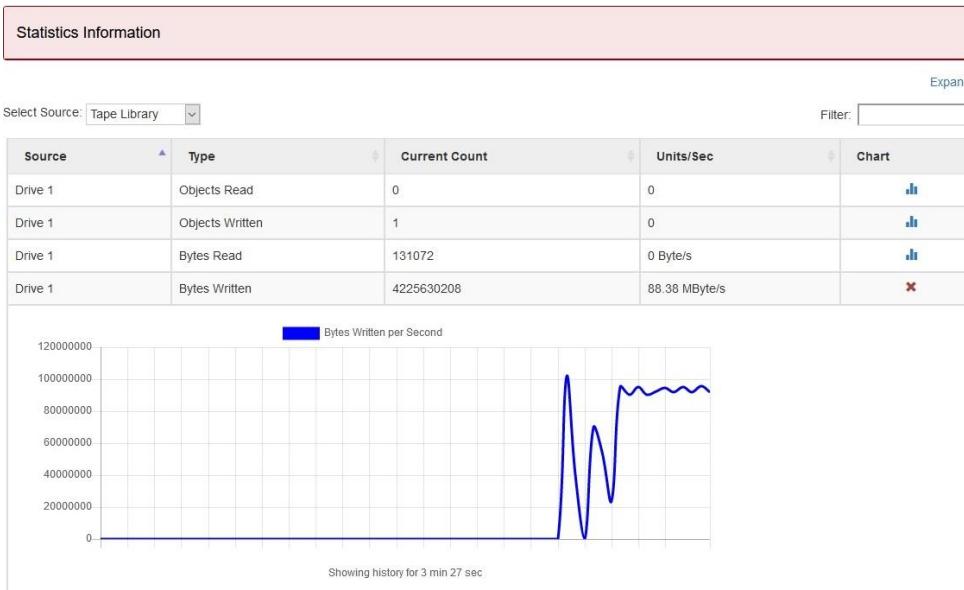
1/1
1/2
2/2
1/3
2/3
3/3
1/4
2/4
3/4
4/4

Tape Library

Apply



システムの稼動状況の表示



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System Cluster Nodes / Log for IFN 1

[Download \(111.19 kB/48\)](#)
[↑ Line](#) [↑ Page](#) [↑ Top](#)
[↓ Line](#) [↓ Page](#) [↓ End](#) [⟳](#)

i 2019/04/09 14:02:02:986 Number of logical CPUs: 16
i 2019/04/09 14:02:03:117 Starting data communication services ...
i 2019/04/09 14:02:03:120 Database communication client is connected to 192.168.1.230:4000
i 2019/04/09 14:02:03:120
i 2019/04/09 14:02:03:120 POINT Archival Gateway services are running.
i 2019/04/09 14:02:03:120
i 2019/04/09 14:02:03:120 Data communication services are running.
i 2019/04/09 14:02:03:204 Interface communication server failed to listen to 192.168.1.230:4000, network address is
i 2019/04/09 14:02:03:303 Starting device control services ...
i 2019/04/09 14:02:03:474 Device control services are running.
i 2019/04/09 14:02:03:474 Starting metadata caching services ...
i 2019/04/09 14:02:03:474 Metadata caching services are running.
i 2019/04/09 14:02:03:474 Starting S3 REST API services ...
i 2019/04/09 14:02:03:475 S3 REST API is using FQDN "s3-pag2.office.optical-expert.jp"
i 2019/04/09 14:02:03:480 Drives: IBM ULT3580-HH5 revision F991 connected
i 2019/04/09 14:02:03:480 Device: IBM 3573-TL serial number 00X2U78Z0863_LLO (1/23 drive/volume groups) is operable
i 2019/04/09 14:02:03:516 S3 REST API service is listening to 192.168.1.231:8080
i 2019/04/09 14:02:03:516 S3 REST API service is listening to 192.168.1.231:8443
i 2019/04/09 14:02:03:519 S3 REST API services are running.
i 2019/04/09 14:02:03:707 Device: IBM 3573-TL serial number 00X2U78Z0863_LLO: Drive group 1: ready and operable

[↑ Line](#) [↑ Page](#) [↑ Top](#)
[↓ Line](#) [↓ Page](#) [↓ End](#) [⟳](#)

System Cluster Nodes / Log for DBN 1

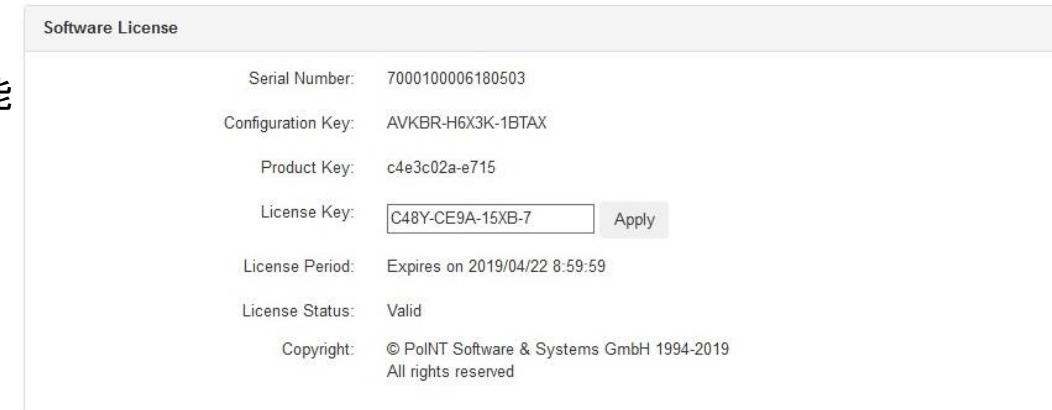
[Download \(219.11 kB/48\)](#)
[↑ Line](#) [↑ Page](#) [↑ Top](#)
[↓ Line](#) [↓ Page](#) [↓ End](#) [⟳](#)
[Display 20 lines per page](#)

i 2019/04/09 13:58:13:015 PolNT Archival Gateway services are running.
i 2019/04/09 13:58:13:015
i 2019/04/09 13:58:13:015 Adding shares for database directories ...
i 2019/04/09 13:58:13:017 Shares for database directories have successfully been added.
i 2019/04/09 13:58:13:043 Current license grants temporary use until 2019/04/21.
i 2019/04/09 13:58:13:043 Starting user management services ...
i 2019/04/09 13:58:13:044 Database 'C:\Database\HDD\pag-users.db' has been opened.
i 2019/04/09 13:58:13:047 User management services are running.
i 2019/04/09 13:58:13:047 Starting metadata caching services ...
i 2019/04/09 13:58:13:048 Database 'C:\Database\HDD\pag-asp.db' has been opened.
i 2019/04/09 13:58:13:189 Metadata caching services are running.
i 2019/04/09 13:58:13:189 Starting device control services ...
i 2019/04/09 13:58:13:191 Database 'C:\Database\HDD\pag-devices.db' has been opened.
i 2019/04/09 13:58:13:193 Device control services are running.
i 2019/04/09 13:58:13:193 Devices: scanning for connected and supported media changer devices ...
i 2019/04/09 13:58:13:472 Devices: IBM 3573-TL revision F.11 serial number 00X2U78Z0863_LLO has been detected and updated
i 2019/04/09 13:58:13:472 Devices: Scan process has successfully been completed.
i 2019/04/09 13:58:13:473 Database 'C:\Database\HDD\pag-tape-mo.db' has been opened.
i 2019/04/09 13:58:13:754 Devices: IBM 3573-TL revision F.11 serial number 00X2U78Z0863_LLO has successfully been started

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ライセンスは、使用するLTOライブラリーのスロット数

- LTOドライブは4台まで
 - メディアのミラーリング
 - メディアのオフライン管理
 - ユーザー管理、DB自動バック機能
- ライセンスの単位
 - 12スロット
 - 32スロット
 - 48スロット
 - 96スロット
 - 280スロット
 - 560スロット



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StorageGRID

11.2の稼働状況

The screenshot shows the vSphere Client interface for host 192.168.1.49. The left sidebar lists various objects under the host. The main window displays the host's configuration details across several tabs: Getting Started, Summary, Virtual Machines, Resource Allocation, Performance, Configuration, Users, Events, and Permissions. The Summary tab is selected.

General

| | |
|---------------------------------|---|
| Manufacturer: | Dell Inc. |
| Model: | PowerEdge R610 |
| CPU Cores: | 8 CPUs x 2.393 GHz |
| Processor Type: | Intel(R) Xeon(R) CPU E5620 @ 2.40GHz |
| License: | VMware vSphere 6 Enterprise Plus - Licensed for 2 physic... |
| Processor Sockets: | 2 |
| Cores per Socket: | 4 |
| Logical Processors: | 16 |
| Hyperthreading: | Active |
| Number of NICs: | 4 |
| State: | Connected |
| Virtual Machines and Templates: | 13 |
| vMotion Enabled: | N/A |
| VMware EVC Mode: | Disabled |
| vSphere HA State | ⓘ N/A |
| Host Configured for FT: | N/A |
| Active Tasks: | |
| Host Profile: | N/A |
| Image Profile: | ESXi-6.0.0-2494585-standard |
| Profile Compliance: | ⓘ N/A |
| DirectPath I/O: | Supported ⓘ |

Resources

| | | |
|----------------|-----------------------------------|---------------|
| CPU usage: | 5314 MHz | Capacity |
| | <div style="width: 100%;"> </div> | 8 x 2.393 GHz |
| Memory usage: | 37573.00 MB | Capacity |
| | <div style="width: 100%;"> </div> | 49132.31 MB |
| Storage | Drive Type | Capacity |
| datastore1 (2) | Non-SSD | 1.81 TB |

Fault Tolerance

| | |
|---------------------------|--|
| Fault Tolerance Version: | 6.0.0-6.0.0-6.0.0 |
| | Refresh Virtual Machine Counts |
| Total Primary VMs: | 0 |
| Powered On Primary VMs: | 0 |
| Total Secondary VMs: | 0 |
| Powered On Secondary VMs: | 0 |

Host Management

Manage this host through VMware vCenter.