Build AIX Client

**Document history**

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| --- | --- | --- | --- |
| **Version** | **Date** | **Author** | **Changes** |
| 1.0 | 6/20/2023 | Jonathan REY-GORREZ | Initial Version |

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**CLASSIFICATION**

|  |  |  |  |
| --- | --- | --- | --- |
| Public (everyone) | Internal (company) | Restricted (to a team) | Confidential (only listed people) |
| Contains personal information in the document body | | | |

Prerequisites

You will need the following information for the new client:

* Hostname
* SAP SID
* IP address (VLAN 99)
* IP address (VLAN 117)

In this document, the following will be used:

* APHILUM365H
* QZE
* 10.209.1.65
* 10.209.117.65

AIX *spot* and *lppsource* resources must be configured on the NIM server.

The NIM server used in this procedure is APHILUM151H/10.209.1.93

LPAR creation

Partition

From the HMC, go to *Partitions* and click on *Create Partition*:



Naming convention: H\_aphilum365h\_QZE

* **H**: physical server letter, uppercase
* **aphilum365h**: client hostname, lowercase
* **QZE**: SAP SID, uppercase

Graphical user interface, application

Description automatically generated

Processors rules: (default 2vCPU)

* Processing Unit = 1/10 Virtual Processors
* Minimum = 1/2 Allocated
* Maximum = 2x Allocated
* Weight = 128 for PROD, 64 for NON-PROD

Graphical user interface, text, application, email

Description automatically generated

Memory rules: (default 8GB)

* Minimum = 1/2 Allocated
* Maximum = 2x Allocated

Graphical user interface, application

Description automatically generated

Click on the partition and go to *General Properties > Advanced Settings*.

Make sure *Save configuration changes* to profile is *Enabled*.



Virtual Networks

Go to *Virtual Networks* and click on *Attach Virtual Network*.

Graphical user interface, text, application, email

Description automatically generated

**One by one**, attach the virtual networks **in that order**:

* VLAN99-vswitch1
* VLAN99-vswitch2
* VLAN96-vswitch1
* VLAN96-vswitch2
* VLAN98-vswitch1
* VLAN98-vswitch2
* VLAN117-vswitch3
* VLAN117-vswitch4

Graphical user interface, table

Description automatically generated

Repeat for all the virtual networks, then go to *default\_profile* and double check:

Graphical user interface

Description automatically generated with low confidence

Graphical user interface, text, application, email

Description automatically generated

Order and numbers are very important. Check all of them.

If wrong, delete and recreate from Virtual Networks (not from default\_profile)

Virtual Storage

First go to either one of the VIOS, then *Virtual Storage > Virtual Fibre Channel Adapters*, and sort by *Adapter ID*:

**Note: Do not add anything here, just refresh to take note later.**

Graphical user interface, text, application, email

Description automatically generated

Take note of the next available **1*n*0**, **1*n*1** Adapter ID pair.

In the example above, the next pair would be 120, 121. Those numbers will be used below.

On the partition, go to *Virtual Storage > Virtual Fibre Channel* and click on *Add Virtual Fibre Channel Device*.

Graphical user interface, text, application

Description automatically generated

**One by one**, add the virtual FC devices **in that order**:

* VIOS1 / T1 / Server Adapter ID 120 / Client Adapter ID 10
* VIOS2 / T1 / Server Adapter ID 120 / Client Adapter ID 11
* VIOS1 / T2 / Server Adapter ID 121 / Client Adapter ID 12
* VIOS2 / T2 / Server Adapter ID 121 / Client Adapter ID 13

Graphical user interface, application

Description automatically generated

Graphical user interface, text, application

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Repeat for all the virtual FC devices, then go to *default\_profile* and double check:

Table

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Order and numbers are very important. Check all of them.

If wrong, delete and recreate from Virtual Storage (not from default\_profile)

Take note of the WWNs:

Graphical user interface, application

Description automatically generated

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **VIOS** | **Port** | **Server ID** | **Client ID** | **WWN** | **SAN** | **SAN Alias** |
| VIOS 1 | T1 | 120 | 10 | c050760ae56400a2  c050760ae56400a3 | SAN 2 | aphilum365h\_H\_VIOS1\_10 |
| VIOS 2 | T1 | 120 | 11 | c050760ae5640090  c050760ae5640091 | SAN 1 | aphilum365h\_H\_VIOS2\_11 |
| VIOS 1 | T2 | 121 | 12 | c050760ae56400a4  c050760ae56400a5 | SAN 1 | aphilum365h\_H\_VIOS1\_12 |
| VIOS 2 | T2 | 121 | 13 | c050760ae56400a6  c050760ae56400a7 | SAN 2 | aphilum365h\_H\_VIOS2\_13 |

WWNs should be consecutive, however in this example there was a bug with the HMC and adapter 11 ended up with a non-consecutive WWN.

Click on *Log In*, it should now say *LoggedIn-VirtualIO\_Server* next to the WWNs:

Graphical user interface

Description automatically generated

Storage configuration

Zoning

Open each SAN (1&2 for VF, 3&4 for BETH) in *Zone Admin* mode and confirm that you can see all WWNs:

SAN1:Text

Description automatically generatedSAN2: Text

Description automatically generated

On each SAN, create the aliases:

* SAN1
  + Adapter 12 (VIOS1) = *aphilum365h\_H\_VIOS1\_12*
  + Adapter 11 (VIOS2) = *aphilum365h\_H\_VIOS2\_11*
* SAN2
  + Adapter 10 (VIOS1) = *aphilum365h\_H\_VIOS1\_10*
  + Adapter 13 (VIOS2) = *aphilum365h\_H\_VIOS2\_13*

A picture containing background pattern

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Graphical user interface, text, application

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Graphical user interface, text, application

Description automatically generated

CLI Alternative

alicreate "aphilum365h\_H\_VIOS1\_12", "c0:50:76:0a:e5:64:00:a4**;**c0:50:76:0a:e5:64:00:a5"

On each SAN, create the Zone:

* *aphilum365h\_H\_disk*

Graphical user interface, text, application, Word

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Graphical user interface, text, application

Description automatically generated

Graphical user interface, application

Description automatically generated

CLI Alternative

zonecreate "aphilum365h\_H\_disk", "aphilum365h\_H\_VIOS1\_12**;**aphilum365h\_H\_VIOS2\_11**;**V7000B\_C1P3\_C2P3"

Add the new Zone to the Zone Config:

Graphical user interface, text, application

Description automatically generated

CLI Alternative

cfgadd "cfg\_all", "aphilum365h\_H\_disk"

Save the configuration:

A picture containing graphical user interface

Description automatically generated

CLI Alternative

cfgsave

Enable the configuration:

A picture containing graphical user interface

Description automatically generated

CLI Alternative

cfgenable cfg\_all

V7000

On the V7000, create a new Host:

* *HS\_BD\_um365h\_QZE*

Add only the first WWN of each adapter.

Graphical user interface

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Create a 140GB *root* LUN (use *\_SPARE* LUNs if available) and map it to the Host:

* *um365\_Bp0root\_0*



Graphical user interface, table

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OS installation

Remote IPL

NIM client

BOS install

Post install