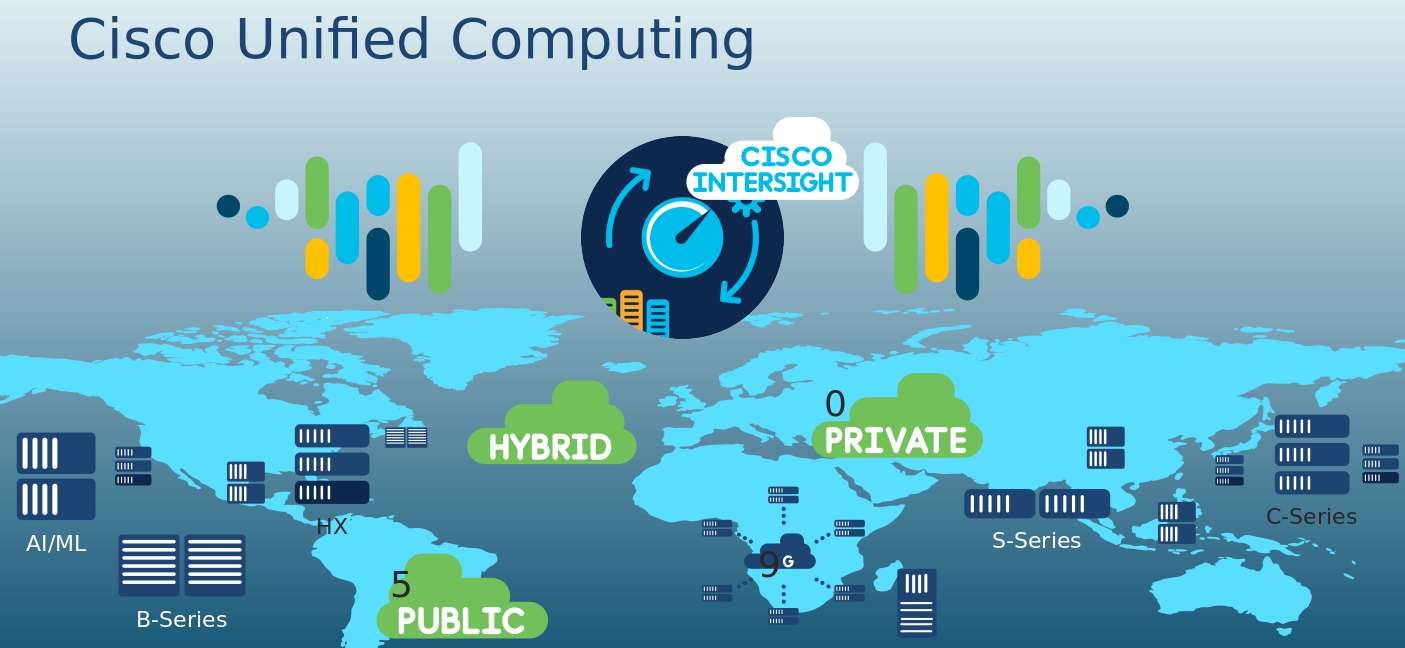
Cisco UCS Detailed Design



# Organisations

Organisations will be configured as follows:

|  |
| --- |
| Name |
| TestOrg |
| ProdOrg |

# Server Configuration

This section outlines Service Profiles and Server Policies.

## Host Firmware Policy

Host Firmware Policies will be configured as follows:

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Org | Name | Descr | IgnoreCompCheck | StageSize | RackBundleVersion | UpdateTrigger | Mode | BladeBundleVersion | OverrideDefaultExclusion |
| ProdOrg | FW-4.0.3 | 4.0.3 Firmware | no | 0 | nan | immediate | staged | nan | yes |
| TestOrg | FW-4.1.0 | 4.1.0 Firmware | yes | 0 | nan | immediate | staged | nan | yes |

## Maintenance Policy

Maintenance Policies will be configured as follows:

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Org | Name | Desc | SoftShutdownTimer | StorageConfigDeploymentPol | RebootPol | OnNextBoot |
| ProdOrg | MainPolProd | BIOS Scrub for Customer | 150-secs | User-ack | user-ack | on-next-boot |
| TestOrg | MainPolTest | BIOS Scrub for Customer | 150-secs | User-ack | user-ack | on-next-boot |

## UUID Pool

UUID Pool will be defined as follows:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| UuidStart | UuidEnd | Name | Desc | Org |
| 0000-000000000001 | 0000-000000000256 | UuidEsxProd | UUID Pool for Production ESX Servers | ProdOrg |
| 0000-000000001024 | 0000-000000001223 | UuidEsxTest | UUID Pool for Test ESX Servers | TestOrg |
| 0000-000000001225 | 0000-000000001424 | UuidKvmProd | UUID Pool for Production KVM Servers | ProdOrg |
| 0000-000000001425 | 0000-000000001624 | UuidKvmTest | UUID Pool for Test KVM Servers | TestOrg |

## BIOS Policies

BIOS Policies will be configured as follows:

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Org | Name | Desc | CDNControl | PostErrorPause | QuietBoot | RebootOnupdate |
| ProdOrg | NO-QUIET | Local Disk Policy | Enabled | Enabled | Disabled | yes |
| TestOrg | QUIET | Local Disk Policy | Enabled | Disabled | Enabled | no |
| TestOrg | NO-QUIET | Local Disk Policy | Enabled | Enabled | Disabled | yes |
| ProdOrg | QUIET | Local Disk Policy | Enabled | Disabled | Enabled | no |

## Scrub Policies

Scrub Policies will be configured as follows:

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Org | Name | Desc | DiskScrub | BiosSettingScrub | FlexFlashScrub | PersistentMemScrub |
| ProdOrg | ScrubPolProd | BIOS Scrub for Customer | no | no | no | no |
| TestOrg | ScrubPolTest | Sol Policy | yes | yes | yes | yes |

## Local Disk Policies

Local Disk Policies will be configured as follows:

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Org | Name | Desc | Mode | FlexFlash | FlexFlashReporting | FlexFlashRemovableState |
| ProdOrg | Internal-Card | Local Disk Policy | raid-mirrored | disable | enable | no-change |
| TestOrg | Internal-Card | Local Disk Policy | raid-mirrored | disable | enable | no-change |

## Serial Over Lan Policies

Serial Over LAN Policies will be configured as follows:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Org | Name | Desc | SerialOverLanState | Speed |
| ProdOrg | SOL-POL-PROD | Sol Policy | enable | 115200 |
| TestOrg | SOL-POL-TEST | Sol Policy | enable | 9600 |

# UCS Networking

The following outlines the networking elements of the UCS design.

## Management Addresses

Management Pools will be configured as follows:

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Name | Desc | StartIP | EndIP | SubnetMask | Gateway | PrimaryDNS | SecondaryDNS | Org |
| ProdMgmtIp | IP Pool for Prod | 10.10.10.5 | 10.10.10.126 | 255.255.255.128 | 10.10.10.1 | 10.49.0.0.1 | 10.50.0.1 | ProdOrg |
| TestMgmtIp | IP Pool for Dev | 10.10.10.134 | 10.10.10.254 | 255.255.255.128 | 10.10.10.129 | 10.49.0.0.1 | 10.50.0.1 | TestOrg |

## Network Control Policies

Serial Over LAN Policies will be configured as follows:

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Name | Desc | CDP | MACRegisterMode | ActionOnUplinkFailure | MACSecurityForge | LLDPTx | LLDPRx | Org |
| CDP-En-LnkDwn | CDP Enabled LinkDown | enabled | only-native-vlan | link-down | allow | disabled | disabled | ProdOrg |
| LLDP-En-LnkDwn | CDP Enabled LinkDown | disabled | only-native-vlan | link-down | allow | enabled | enabled | ProdOrg |
| CDP-En-LnkDwn | CDP Enabled LinkDown | enabled | only-native-vlan | link-down | allow | disabled | disabled | TestOrg |
| LLDP-En-LnkDwn | CDP Enabled LinkDown | disabled | only-native-vlan | link-down | allow | enabled | enabled | TestOrg |

## MAC Address Pools

MAC Address Pools will be configured as follows:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Desc | StartMac | EndMac | Org |
| MacEsxProd\_A | MAC Pool for ESX Production Fabric A | 00:25:B5:1A:00:00 | 00:25:B5:1A:02:00 | ProdOrg |
| MacEsxProd\_B | MAC Pool for ESX Production Fabric B | 00:25:B5:1B:00:00 | 00:25:B5:1B:01:FF | ProdOrg |
| MacEsxTest\_A | MAC Pool for ESX Test Fabric A | 00:25:B5:1A:03:00 | 00:25:B5:1A:05:00 | TestOrg |
| MacEsxTest\_B | MAC Pool for ESX Test Fabric B | 00:25:B5:1B:03:00 | 00:25:B5:1B:05:00 | TestOrg |
| MacKvmProd\_A | MAC Pool for KVM Production Fabric A | 00:25:B5:1A:0C:00 | 00:25:B5:1A:0C:FF | ProdOrg |
| MacKvmProd\_B | MAC Pool for KVM Production Fabric B | 00:25:B5:1B:0D:00 | 00:25:B5:1B:0D:FF | ProdOrg |
| MacKvmTest\_A | MAC Pool for KVM Test Fabric A | 00:25:B5:1A:0E:00 | 00:25:B5:1A:0E:FF | TestOrg |
| MacKvmTest\_B | MAC Pool for KVM Test Fabric B | 00:25:B5:1B:0F:00 | 00:25:B5:1B:0F:FF | TestOrg |

## QoS Policies

QoS Policies will be configured as follows:

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Name | Desc | Priority | Burst | Rate | HostControl | Org |
| ProdApp | QoS Pol for Production Applications | platinum | 10240 | line-rate | none | ProdOrg |
| Backups | QoS Pol for Backups | best-effort | 10240 | line-rate | none | ProdOrg |
| FibreChannel | QoS Pol for FC | fc | 10240 | line-rate | none | ProdOrg |
| Management | QoS Pol for Mangement vNIC | silver | 10240 | line-rate | none | ProdOrg |
| IPStorage | QoS Pol for IP Storage | platinum | 10240 | line-rate | none | ProdOrg |
| vMotion | QoS Pol for vMotion, LiveMigration | best-effort | 10240 | line-rate | none | ProdOrg |
| TestApp | QoS Pol for Production Applications | silver | 10240 | line-rate | none | TestOrg |
| Backups | QoS Pol for Backups | best-effort | 10240 | line-rate | none | TestOrg |
| FibreChannel | QoS Pol for FC | fc | 10240 | line-rate | none | TestOrg |
| Management | QoS Pol for Mangement vNIC | silver | 10240 | line-rate | none | TestOrg |
| IPStorage | QoS Pol for IP Storage | platinum | 10240 | line-rate | none | TestOrg |
| vMotion | QoS Pol for vMotion, LiveMigration | best-effort | 10240 | line-rate | none | TestOrg |

## VLANs

VLANs will be defined as follows:

|  |  |  |  |
| --- | --- | --- | --- |
| VlanId | VlanName | VNIC-Template-A | VNIC-Template-B |
| 300 | 300\_EsxProd | Prod-ESX-App-A | Prod-ESX-App-B |
| 301 | 301\_EsxProd | Prod-ESX-App-A | Prod-ESX-App-B |
| 302 | 302\_EsxProd | Prod-ESX-App-A | Prod-ESX-App-B |
| 303 | 303\_EsxProd | Prod-ESX-App-A | Prod-ESX-App-B |
| 304 | 304\_EsxProd | Prod-ESX-App-A | Prod-ESX-App-B |
| 305 | 305\_EsxProd | Prod-ESX-App-A | Prod-ESX-App-B |
| 306 | 306\_EsxProd | Prod-ESX-App-A | Prod-ESX-App-B |
| 307 | 307\_EsxProd | Prod-ESX-App-A | Prod-ESX-App-B |
| 308 | 308\_EsxProd | Prod-ESX-App-A | Prod-ESX-App-B |
| 309 | 309\_EsxProd | Prod-ESX-App-A | Prod-ESX-App-B |
| 310 | 310\_EsxProd | Prod-ESX-App-A | Prod-ESX-App-B |
| 311 | 311\_EsxProd | Prod-ESX-App-A | Prod-ESX-App-B |
| 312 | 312\_EsxProd | Prod-ESX-App-A | Prod-ESX-App-B |
| 313 | 313\_EsxProd | Prod-ESX-App-A | Prod-ESX-App-B |
| 314 | 314\_EsxProd | Prod-ESX-App-A | Prod-ESX-App-B |
| 315 | 315\_EsxProd | Prod-ESX-App-A | Prod-ESX-App-B |
| 316 | 316\_EsxProd | Prod-ESX-App-A | Prod-ESX-App-B |
| 317 | 317\_EsxProd | Prod-ESX-App-A | Prod-ESX-App-B |
| 318 | 318\_EsxProd | Prod-ESX-App-A | Prod-ESX-App-B |
| 319 | 319\_EsxProd | Prod-ESX-App-A | Prod-ESX-App-B |
| 320 | 320\_EsxProd | Prod-ESX-App-A | Prod-ESX-App-B |
| 321 | 321\_EsxProd | Prod-ESX-App-A | Prod-ESX-App-B |
| 322 | 322\_EsxProd | Prod-ESX-App-A | Prod-ESX-App-B |
| 323 | 323\_EsxProd | Prod-ESX-App-A | Prod-ESX-App-B |
| 324 | 324\_EsxProd | Prod-ESX-App-A | Prod-ESX-App-B |
| 325 | 325\_EsxProd | Prod-ESX-App-A | Prod-ESX-App-B |
| 326 | 326\_EsxProd | Prod-ESX-App-A | Prod-ESX-App-B |
| 327 | 327\_EsxProd | Prod-ESX-App-A | Prod-ESX-App-B |
| 328 | 328\_EsxProd | Prod-ESX-App-A | Prod-ESX-App-B |
| 329 | 329\_EsxProd | Prod-ESX-App-A | Prod-ESX-App-B |
| 330 | 330\_EsxProd | Prod-ESX-App-A | Prod-ESX-App-B |
| 331 | 331\_EsxProd | Prod-ESX-App-A | Prod-ESX-App-B |
| 332 | 332\_EsxProd | Prod-ESX-App-A | Prod-ESX-App-B |
| 333 | 333\_EsxProd | Prod-ESX-App-A | Prod-ESX-App-B |
| 334 | 334\_EsxProd | Prod-ESX-App-A | Prod-ESX-App-B |
| 335 | 335\_EsxProd | Prod-ESX-App-A | Prod-ESX-App-B |
| 336 | 336\_EsxProd | Prod-ESX-App-A | Prod-ESX-App-B |
| 337 | 337\_EsxProd | Prod-ESX-App-A | Prod-ESX-App-B |
| 338 | 338\_EsxProd | Prod-ESX-App-A | Prod-ESX-App-B |
| 339 | 339\_EsxProd | Prod-ESX-App-A | Prod-ESX-App-B |
| 340 | 340\_EsxProd | Prod-ESX-App-A | Prod-ESX-App-B |
| 341 | 341\_EsxProd | Prod-ESX-App-A | Prod-ESX-App-B |
| 342 | 342\_EsxProd | Prod-ESX-App-A | Prod-ESX-App-B |
| 343 | 343\_EsxProd | Prod-ESX-App-A | Prod-ESX-App-B |
| 344 | 344\_EsxProd | Prod-ESX-App-A | Prod-ESX-App-B |
| 345 | 345\_EsxProd | Prod-ESX-App-A | Prod-ESX-App-B |
| 346 | 346\_EsxProd | Prod-ESX-App-A | Prod-ESX-App-B |
| 347 | 347\_EsxProd | Prod-ESX-App-A | Prod-ESX-App-B |
| 348 | 348\_EsxProd | Prod-ESX-App-A | Prod-ESX-App-B |
| 349 | 349\_EsxProd | Prod-ESX-App-A | Prod-ESX-App-B |
| 350 | 350\_EsxProd | Prod-ESX-App-A | Prod-ESX-App-B |
| 351 | 351\_EsxProd | Prod-ESX-App-A | Prod-ESX-App-B |
| 352 | 352\_EsxProd | Prod-ESX-App-A | Prod-ESX-App-B |
| 400 | 400\_EsxTest | Test-ESX-App-A | Test-ESX-App-B |
| 401 | 401\_EsxTest | Test-ESX-App-A | Test-ESX-App-B |
| 402 | 402\_EsxTest | Test-ESX-App-A | Test-ESX-App-B |
| 403 | 403\_EsxTest | Test-ESX-App-A | Test-ESX-App-B |
| 404 | 404\_EsxTest | Test-ESX-App-A | Test-ESX-App-B |
| 405 | 405\_EsxTest | Test-ESX-App-A | Test-ESX-App-B |
| 406 | 406\_EsxTest | Test-ESX-App-A | Test-ESX-App-B |
| 407 | 407\_EsxTest | Test-ESX-App-A | Test-ESX-App-B |
| 408 | 408\_EsxTest | Test-ESX-App-A | Test-ESX-App-B |
| 409 | 409\_EsxTest | Test-ESX-App-A | Test-ESX-App-B |
| 410 | 410\_EsxTest | Test-ESX-App-A | Test-ESX-App-B |
| 411 | 411\_EsxTest | Test-ESX-App-A | Test-ESX-App-B |
| 412 | 412\_EsxTest | Test-ESX-App-A | Test-ESX-App-B |
| 413 | 413\_EsxTest | Test-ESX-App-A | Test-ESX-App-B |
| 414 | 414\_EsxTest | Test-ESX-App-A | Test-ESX-App-B |
| 415 | 415\_EsxTest | Test-ESX-App-A | Test-ESX-App-B |
| 416 | 416\_EsxTest | Test-ESX-App-A | Test-ESX-App-B |
| 417 | 417\_EsxTest | Test-ESX-App-A | Test-ESX-App-B |
| 418 | 418\_EsxTest | Test-ESX-App-A | Test-ESX-App-B |
| 419 | 419\_EsxTest | Test-ESX-App-A | Test-ESX-App-B |
| 420 | 420\_EsxTest | Test-ESX-App-A | Test-ESX-App-B |
| 421 | 421\_EsxTest | Test-ESX-App-A | Test-ESX-App-B |
| 422 | 422\_EsxTest | Test-ESX-App-A | Test-ESX-App-B |
| 423 | 423\_EsxTest | Test-ESX-App-A | Test-ESX-App-B |
| 424 | 424\_EsxTest | Test-ESX-App-A | Test-ESX-App-B |
| 425 | 425\_EsxTest | Test-ESX-App-A | Test-ESX-App-B |
| 426 | 426\_EsxTest | Test-ESX-App-A | Test-ESX-App-B |
| 427 | 427\_EsxTest | Test-ESX-App-A | Test-ESX-App-B |
| 428 | 428\_EsxTest | Test-ESX-App-A | Test-ESX-App-B |
| 429 | 429\_EsxTest | Test-ESX-App-A | Test-ESX-App-B |
| 430 | 430\_EsxTest | Test-ESX-App-A | Test-ESX-App-B |
| 431 | 431\_EsxTest | Test-ESX-App-A | Test-ESX-App-B |
| 432 | 432\_EsxTest | Test-ESX-App-A | Test-ESX-App-B |
| 433 | 433\_EsxTest | Test-ESX-App-A | Test-ESX-App-B |
| 434 | 434\_EsxTest | Test-ESX-App-A | Test-ESX-App-B |
| 435 | 435\_EsxTest | Test-ESX-App-A | Test-ESX-App-B |
| 436 | 436\_EsxTest | Test-ESX-App-A | Test-ESX-App-B |
| 437 | 437\_EsxTest | Test-ESX-App-A | Test-ESX-App-B |
| 438 | 438\_EsxTest | Test-ESX-App-A | Test-ESX-App-B |
| 439 | 439\_EsxTest | Test-ESX-App-A | Test-ESX-App-B |
| 440 | 440\_EsxTest | Test-ESX-App-A | Test-ESX-App-B |
| 441 | 441\_EsxTest | Test-ESX-App-A | Test-ESX-App-B |
| 500 | 500\_KvmProd | Prod-KVM-App-A | Prod-KVM-App-B |
| 501 | 501\_KvmProd | Prod-KVM-App-A | Prod-KVM-App-B |
| 502 | 502\_KvmProd | Prod-KVM-App-A | Prod-KVM-App-B |
| 503 | 503\_KvmProd | Prod-KVM-App-A | Prod-KVM-App-B |
| 504 | 504\_KvmProd | Prod-KVM-App-A | Prod-KVM-App-B |
| 505 | 505\_KvmProd | Prod-KVM-App-A | Prod-KVM-App-B |
| 506 | 506\_KvmProd | Prod-KVM-App-A | Prod-KVM-App-B |
| 507 | 507\_KvmProd | Prod-KVM-App-A | Prod-KVM-App-B |
| 508 | 508\_KvmProd | Prod-KVM-App-A | Prod-KVM-App-B |
| 509 | 509\_KvmProd | Prod-KVM-App-A | Prod-KVM-App-B |
| 510 | 510\_KvmProd | Prod-KVM-App-A | Prod-KVM-App-B |
| 511 | 511\_KvmProd | Prod-KVM-App-A | Prod-KVM-App-B |
| 512 | 512\_KvmProd | Prod-KVM-App-A | Prod-KVM-App-B |
| 513 | 513\_KvmProd | Prod-KVM-App-A | Prod-KVM-App-B |
| 514 | 514\_KvmProd | Prod-KVM-App-A | Prod-KVM-App-B |
| 515 | 515\_KvmProd | Prod-KVM-App-A | Prod-KVM-App-B |
| 516 | 516\_KvmProd | Prod-KVM-App-A | Prod-KVM-App-B |
| 517 | 517\_KvmProd | Prod-KVM-App-A | Prod-KVM-App-B |
| 518 | 518\_KvmProd | Prod-KVM-App-A | Prod-KVM-App-B |
| 519 | 519\_KvmProd | Prod-KVM-App-A | Prod-KVM-App-B |
| 520 | 520\_KvmProd | Prod-KVM-App-A | Prod-KVM-App-B |
| 521 | 521\_KvmProd | Prod-KVM-App-A | Prod-KVM-App-B |
| 522 | 522\_KvmProd | Prod-KVM-App-A | Prod-KVM-App-B |
| 523 | 523\_KvmProd | Prod-KVM-App-A | Prod-KVM-App-B |
| 524 | 524\_KvmProd | Prod-KVM-App-A | Prod-KVM-App-B |
| 525 | 525\_KvmProd | Prod-KVM-App-A | Prod-KVM-App-B |
| 526 | 526\_KvmProd | Prod-KVM-App-A | Prod-KVM-App-B |
| 527 | 527\_KvmProd | Prod-KVM-App-A | Prod-KVM-App-B |
| 528 | 528\_KvmProd | Prod-KVM-App-A | Prod-KVM-App-B |
| 529 | 529\_KvmProd | Prod-KVM-App-A | Prod-KVM-App-B |
| 530 | 530\_KvmProd | Prod-KVM-App-A | Prod-KVM-App-B |
| 531 | 531\_KvmProd | Prod-KVM-App-A | Prod-KVM-App-B |
| 532 | 532\_KvmProd | Prod-KVM-App-A | Prod-KVM-App-B |
| 533 | 533\_KvmProd | Prod-KVM-App-A | Prod-KVM-App-B |
| 534 | 534\_KvmProd | Prod-KVM-App-A | Prod-KVM-App-B |
| 535 | 535\_KvmProd | Prod-KVM-App-A | Prod-KVM-App-B |
| 536 | 536\_KvmProd | Prod-KVM-App-A | Prod-KVM-App-B |
| 537 | 537\_KvmProd | Prod-KVM-App-A | Prod-KVM-App-B |
| 538 | 538\_KvmProd | Prod-KVM-App-A | Prod-KVM-App-B |
| 539 | 539\_KvmProd | Prod-KVM-App-A | Prod-KVM-App-B |
| 540 | 540\_KvmProd | Prod-KVM-App-A | Prod-KVM-App-B |
| 541 | 541\_KvmProd | Prod-KVM-App-A | Prod-KVM-App-B |
| 600 | 600\_KvmTest | Test-KVM-App-A | Test-KVM-App-B |
| 601 | 601\_KvmTest | Test-KVM-App-A | Test-KVM-App-B |
| 602 | 602\_KvmTest | Test-KVM-App-A | Test-KVM-App-B |
| 603 | 603\_KvmTest | Test-KVM-App-A | Test-KVM-App-B |
| 604 | 604\_KvmTest | Test-KVM-App-A | Test-KVM-App-B |
| 605 | 605\_KvmTest | Test-KVM-App-A | Test-KVM-App-B |
| 606 | 606\_KvmTest | Test-KVM-App-A | Test-KVM-App-B |
| 607 | 607\_KvmTest | Test-KVM-App-A | Test-KVM-App-B |
| 608 | 608\_KvmTest | Test-KVM-App-A | Test-KVM-App-B |
| 609 | 609\_KvmTest | Test-KVM-App-A | Test-KVM-App-B |
| 610 | 610\_KvmTest | Test-KVM-App-A | Test-KVM-App-B |
| 611 | 611\_KvmTest | Test-KVM-App-A | Test-KVM-App-B |
| 612 | 612\_KvmTest | Test-KVM-App-A | Test-KVM-App-B |
| 613 | 613\_KvmTest | Test-KVM-App-A | Test-KVM-App-B |
| 614 | 614\_KvmTest | Test-KVM-App-A | Test-KVM-App-B |
| 615 | 615\_KvmTest | Test-KVM-App-A | Test-KVM-App-B |
| 616 | 616\_KvmTest | Test-KVM-App-A | Test-KVM-App-B |
| 617 | 617\_KvmTest | Test-KVM-App-A | Test-KVM-App-B |
| 618 | 618\_KvmTest | Test-KVM-App-A | Test-KVM-App-B |
| 619 | 619\_KvmTest | Test-KVM-App-A | Test-KVM-App-B |
| 620 | 620\_KvmTest | Test-KVM-App-A | Test-KVM-App-B |
| 621 | 621\_KvmTest | Test-KVM-App-A | Test-KVM-App-B |
| 622 | 622\_KvmTest | Test-KVM-App-A | Test-KVM-App-B |
| 623 | 623\_KvmTest | Test-KVM-App-A | Test-KVM-App-B |
| 624 | 624\_KvmTest | Test-KVM-App-A | Test-KVM-App-B |
| 625 | 625\_KvmTest | Test-KVM-App-A | Test-KVM-App-B |
| 626 | 626\_KvmTest | Test-KVM-App-A | Test-KVM-App-B |
| 627 | 627\_KvmTest | Test-KVM-App-A | Test-KVM-App-B |
| 628 | 628\_KvmTest | Test-KVM-App-A | Test-KVM-App-B |
| 629 | 629\_KvmTest | Test-KVM-App-A | Test-KVM-App-B |
| 630 | 630\_KvmTest | Test-KVM-App-A | Test-KVM-App-B |
| 631 | 631\_KvmTest | Test-KVM-App-A | Test-KVM-App-B |
| 632 | 632\_KvmTest | Test-KVM-App-A | Test-KVM-App-B |
| 633 | 633\_KvmTest | Test-KVM-App-A | Test-KVM-App-B |
| 634 | 634\_KvmTest | Test-KVM-App-A | Test-KVM-App-B |
| 635 | 635\_KvmTest | Test-KVM-App-A | Test-KVM-App-B |
| 636 | 636\_KvmTest | Test-KVM-App-A | Test-KVM-App-B |
| 637 | 637\_KvmTest | Test-KVM-App-A | Test-KVM-App-B |
| 700 | ESXiManagement | Prod-Mgmt-A | Prod-Mgmt-B |
| 701 | ESXivMotion | Prod-vMotion-A | Prod-vMotion-B |
| 702 | KVMManagement | Prod-KVM-Mgmt-A | Prod-KVM-Mgmt-B |
| 703 | KVMLiveMigration | Prod-KVM-LM-A | Prod-KVM-LM-B |
| 711 | Backup | Prod-Backup-A | Prod-Backup-B |
| 711 | Backup | Test-Backup-A | Test-Backup-B |
| 721 | IpStorage | Prod-IpStorage-A | Prod-IpStorage-B |
| 721 | IpStorage | Test-IpStorage-A | Test-IpStorage-B |
| 800 | ESXiManagement | Test-Mgmt-A | Test-Mgmt-B |
| 801 | ESXivMotion | Test-vMotion-A | Test-vMotion-B |
| 802 | KVMManagement | Test-KVM-Mgmt-A | Test-KVM-Mgmt-B |
| 803 | KVMLiveMigration | Test-KVM-LM-A | Test-KVM-LM-B |

## vNIC Templates

vNIC templates will be defined as follows:

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Name | Desc | FabricID | RedundancyType | TemplateType | CDNSource | MTU | MacPool | QosPolicy | NetworkControlPolicy | Org |
| Prod-ESX-App-A | vNIC Template for Production ESX Application vNIC side A | A | none | updating-template | vnic-name | 9000 | MacEsxProd\_A | ProdApp | CDP-En-LnkDwn | ProdOrg |
| Prod-ESX-App-B | vNIC Template for Production ESX Application vNIC side B | B | none | updating-template | vnic-name | 9000 | MacEsxProd\_B | ProdApp | CDP-En-LnkDwn | ProdOrg |
| Prod-Backup-A | vNIC Template for Production ESX Application vNIC side A | A | none | updating-template | vnic-name | 9000 | MacEsxProd\_A | Backups | CDP-En-LnkDwn | ProdOrg |
| Prod-Backup-B | vNIC Template for Production ESX Application vNIC side B | B | none | updating-template | vnic-name | 9000 | MacEsxProd\_B | Backups | CDP-En-LnkDwn | ProdOrg |
| Prod-IpStorage-A | vNIC Template for Production ESX Application vNIC side A | A | none | updating-template | vnic-name | 9000 | MacEsxProd\_A | IPStorage | CDP-En-LnkDwn | ProdOrg |
| Prod-IpStorage-B | vNIC Template for Production ESX Application vNIC side B | B | none | updating-template | vnic-name | 9000 | MacEsxProd\_B | IPStorage | CDP-En-LnkDwn | ProdOrg |
| Prod-Mgmt-A | vNIC Template for Production ESX Application vNIC side A | A | none | updating-template | vnic-name | 9000 | MacEsxProd\_A | Management | CDP-En-LnkDwn | ProdOrg |
| Prod-Mgmt-B | vNIC Template for Production ESX Application vNIC side B | B | none | updating-template | vnic-name | 9000 | MacEsxProd\_B | Management | CDP-En-LnkDwn | ProdOrg |
| Prod-vMotion-A | vNIC Template for Production ESX Application vNIC side A | A | none | updating-template | vnic-name | 9000 | MacEsxProd\_A | vMotion | CDP-En-LnkDwn | ProdOrg |
| Prod-vMotion-B | vNIC Template for Production ESX Application vNIC side B | B | none | updating-template | vnic-name | 9000 | MacEsxProd\_B | vMotion | CDP-En-LnkDwn | ProdOrg |
| Test-ESX-App-A | vNIC Template for Test ESX Application vNIC side A | A | none | updating-template | vnic-name | 9000 | MacEsxTest\_A | TestApp | CDP-En-LnkDwn | TestOrg |
| Test-ESX-App-B | vNIC Template for Test ESX Application vNIC side B | B | none | updating-template | vnic-name | 9000 | MacEsxTest\_B | TestApp | CDP-En-LnkDwn | TestOrg |
| Test-Backup-A | vNIC Template for Test ESX Application vNIC side A | A | none | updating-template | vnic-name | 9000 | MacEsxTest\_A | Backups | CDP-En-LnkDwn | TestOrg |
| Test-Backup-B | vNIC Template for Test ESX Application vNIC side B | B | none | updating-template | vnic-name | 9000 | MacEsxTest\_B | Backups | CDP-En-LnkDwn | TestOrg |
| Test-IpStorage-A | vNIC Template for Test ESX Application vNIC side A | A | none | updating-template | vnic-name | 9000 | MacEsxTest\_A | IPStorage | CDP-En-LnkDwn | TestOrg |
| Test-IpStorage-B | vNIC Template for Test ESX Application vNIC side B | B | none | updating-template | vnic-name | 9000 | MacEsxTest\_B | IPStorage | CDP-En-LnkDwn | TestOrg |
| Test-Mgmt-A | vNIC Template for Test ESX Application vNIC side A | A | none | updating-template | vnic-name | 9000 | MacEsxTest\_A | Management | CDP-En-LnkDwn | TestOrg |
| Test-Mgmt-B | vNIC Template for Test ESX Application vNIC side B | B | none | updating-template | vnic-name | 9000 | MacEsxTest\_B | Management | CDP-En-LnkDwn | TestOrg |
| Test-vMotion-A | vNIC Template for Test ESX Application vNIC side A | A | none | updating-template | vnic-name | 9000 | MacEsxTest\_A | vMotion | CDP-En-LnkDwn | TestOrg |
| Test-vMotion-B | vNIC Template for Test ESX Application vNIC side B | B | none | updating-template | vnic-name | 9000 | MacEsxTest\_B | vMotion | CDP-En-LnkDwn | TestOrg |
| Prod-KVM-App-A | vNIC Template for Production KVM Application vNIC side A | A | none | updating-template | vnic-name | 9000 | MacKvmProd\_A | ProdApp | CDP-En-LnkDwn | ProdOrg |
| Prod-KVM-App-B | vNIC Template for Production KVM Application vNIC side B | B | none | updating-template | vnic-name | 9000 | MacKvmProd\_B | ProdApp | CDP-En-LnkDwn | ProdOrg |
| Prod-Backup-A | vNIC Template for Production KVM Application vNIC side A | A | none | updating-template | vnic-name | 9000 | MacKvmProd\_A | Backups | CDP-En-LnkDwn | ProdOrg |
| Prod-Backup-B | vNIC Template for Production KVM Application vNIC side B | B | none | updating-template | vnic-name | 9000 | MacKvmProd\_B | Backups | CDP-En-LnkDwn | ProdOrg |
| Prod-IpStorage-A | vNIC Template for Production KVM Application vNIC side A | A | none | updating-template | vnic-name | 9000 | MacKvmProd\_A | IPStorage | CDP-En-LnkDwn | ProdOrg |
| Prod-IpStorage-B | vNIC Template for Production KVM Application vNIC side B | B | none | updating-template | vnic-name | 9000 | MacKvmProd\_B | IPStorage | CDP-En-LnkDwn | ProdOrg |
| Prod-KVM-Mgmt-A | vNIC Template for Production KVM Application vNIC side A | A | none | updating-template | vnic-name | 9000 | MacKvmProd\_A | Management | CDP-En-LnkDwn | ProdOrg |
| Prod-KVM-Mgmt-B | vNIC Template for Production KVM Application vNIC side B | B | none | updating-template | vnic-name | 9000 | MacKvmProd\_B | Management | CDP-En-LnkDwn | ProdOrg |
| Prod-KVM-LM-A | vNIC Template for Production KVM Application vNIC side A | A | none | updating-template | vnic-name | 9000 | MacKvmProd\_A | vMotion | CDP-En-LnkDwn | ProdOrg |
| Prod-KVM-LM-B | vNIC Template for Production KVM Application vNIC side B | B | none | updating-template | vnic-name | 9000 | MacKvmProd\_B | vMotion | CDP-En-LnkDwn | ProdOrg |
| Test-KVM-App-A | vNIC Template for Test KVM Application vNIC side A | A | none | updating-template | vnic-name | 9000 | MacKvmTest\_A | TestApp | CDP-En-LnkDwn | TestOrg |
| Test-KVM-App-B | vNIC Template for Test KVM Application vNIC side B | B | none | updating-template | vnic-name | 9000 | MacKvmTest\_B | TestApp | CDP-En-LnkDwn | TestOrg |
| Test-Backup-A | vNIC Template for Test KVM Backup vNIC side A | A | none | updating-template | vnic-name | 9000 | MacKvmTest\_A | Backups | CDP-En-LnkDwn | TestOrg |
| Test-Backup-B | vNIC Template for Test KVM Backup vNIC side B | B | none | updating-template | vnic-name | 9000 | MacKvmTest\_B | Backups | CDP-En-LnkDwn | TestOrg |
| Test-IpStorage-A | vNIC Template for Test KVM Application vNIC side A | A | none | updating-template | vnic-name | 9000 | MacKvmTest\_A | IPStorage | CDP-En-LnkDwn | TestOrg |
| Test-IpStorage-B | vNIC Template for Test KVM Application vNIC side B | B | none | updating-template | vnic-name | 9000 | MacKvmTest\_B | IPStorage | CDP-En-LnkDwn | TestOrg |
| Test-KVM-Mgmt-A | vNIC Template for Test KVM Application vNIC side A | A | none | updating-template | vnic-name | 9000 | MacKvmTest\_A | Management | CDP-En-LnkDwn | TestOrg |
| Test-KVM-Mgmt-B | vNIC Template for Test KVM Application vNIC side B | B | none | updating-template | vnic-name | 9000 | MacKvmTest\_B | Management | CDP-En-LnkDwn | TestOrg |
| Test-KVM-LM-A | vNIC Template for Test KVM Application vNIC side A | A | none | updating-template | vnic-name | 9000 | MacKvmTest\_A | vMotion | CDP-En-LnkDwn | TestOrg |
| Test-KVM-LM-B | vNIC Template for Test KVM Application vNIC side B | B | none | updating-template | vnic-name | 9000 | MacKvmTest\_B | vMotion | CDP-En-LnkDwn | TestOrg |

## LAN Connectivity Policy

LAN Connectivity Policy will be defined as follows:

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Name | vNICTemplateName | vNICName | Description | NwControlPol | SwitchID | MacPool | QosPol | vNICOrder | Org | AdapterPol | MTU |
| ESX-PROD-CON | Prod-ESX-App-A | vNIC1 | ESX Production Application vNIC Fabric A | CDP-En-LnkDwn | A | MacEsxProd\_A | ProdApp | 3 | ProdOrg | VMWare | 9000 |
| ESX-PROD-CON | Prod-ESX-App-B | vNIC2 | ESX Production Application vNIC Fabric B | CDP-En-LnkDwn | B | MacEsxProd\_B | ProdApp | 4 | ProdOrg | VMWare | 9000 |
| ESX-PROD-CON | Prod-Backup-A | vNIC3 | ESX Production Backup vNIC Fabric A | CDP-En-LnkDwn | A | MacEsxProd\_A | Backups | 5 | ProdOrg | VMWare | 9000 |
| ESX-PROD-CON | Prod-Backup-B | vNIC4 | ESX Production Backup vNIC Fabric B | CDP-En-LnkDwn | B | MacEsxProd\_B | Backups | 6 | ProdOrg | VMWare | 9000 |
| ESX-PROD-CON | Prod-IpStorage-A | vNIC5 | ESX Production IP SAN vNIC Fabric A | CDP-En-LnkDwn | A | MacEsxProd\_A | IPStorage | 7 | ProdOrg | VMWare | 9000 |
| ESX-PROD-CON | Prod-IpStorage-B | vNIC6 | ESX Production IP SAN vNIC Fabric B | CDP-En-LnkDwn | B | MacEsxProd\_B | IPStorage | 8 | ProdOrg | VMWare | 9000 |
| ESX-PROD-CON | Prod-Mgmt-A | vNIC7 | ESX Production Mgmt vNIC Fabric A | CDP-En-LnkDwn | A | MacEsxProd\_A | Management | 9 | ProdOrg | VMWare | 9000 |
| ESX-PROD-CON | Prod-Mgmt-B | vNIC8 | ESX Production Mgmt vNIC Fabric B | CDP-En-LnkDwn | B | MacEsxProd\_B | Management | 10 | ProdOrg | VMWare | 9000 |
| ESX-PROD-CON | Prod-vMotion-A | vNIC9 | ESX Production vMotion vNIC Fabric A | CDP-En-LnkDwn | A | MacEsxProd\_A | vMotion | 11 | ProdOrg | VMWare | 9000 |
| ESX-PROD-CON | Prod-vMotion-B | vNIC10 | ESX Production vMotion vNIC Fabric B | CDP-En-LnkDwn | B | MacEsxProd\_B | vMotion | 12 | ProdOrg | VMWare | 9000 |
| ESX-TEST-CON | Test-ESX-App-A | vNIC1 | ESX Test Application vNIC Fabric A | CDP-En-LnkDwn | A | MacEsxTest\_A | ProdApp | 3 | TestOrg | VMWare | 9000 |
| ESX-TEST-CON | Test-ESX-App-B | vNIC2 | ESX Test Application vNIC Fabric B | CDP-En-LnkDwn | B | MacEsxTest\_B | ProdApp | 4 | TestOrg | VMWare | 9000 |
| ESX-TEST-CON | Test-Backup-A | vNIC3 | ESX Test Backup vNIC Fabric A | CDP-En-LnkDwn | A | MacEsxTest\_A | Backups | 5 | TestOrg | VMWare | 9000 |
| ESX-TEST-CON | Test-Backup-B | vNIC4 | ESX Test Backup vNIC Fabric B | CDP-En-LnkDwn | B | MacEsxTest\_B | Backups | 6 | TestOrg | VMWare | 9000 |
| ESX-TEST-CON | Test-IpStorage-A | vNIC5 | ESX Test IP SAN vNIC Fabric A | CDP-En-LnkDwn | A | MacEsxTest\_A | IPStorage | 7 | TestOrg | VMWare | 9000 |
| ESX-TEST-CON | Test-IpStorage-B | vNIC6 | ESX Test IP SAN vNIC Fabric B | CDP-En-LnkDwn | B | MacEsxTest\_B | IPStorage | 8 | TestOrg | VMWare | 9000 |
| ESX-TEST-CON | Test-Mgmt-A | vNIC7 | ESX Test Mgmt vNIC Fabric A | CDP-En-LnkDwn | A | MacEsxTest\_A | Management | 9 | TestOrg | VMWare | 9000 |
| ESX-TEST-CON | Test-Mgmt-B | vNIC8 | ESX Test Mgmt vNIC Fabric B | CDP-En-LnkDwn | B | MacEsxTest\_B | Management | 10 | TestOrg | VMWare | 9000 |
| ESX-TEST-CON | Test-vMotion-A | vNIC9 | ESX Test vMotion vNIC Fabric A | CDP-En-LnkDwn | A | MacEsxTest\_A | vMotion | 11 | TestOrg | VMWare | 9000 |
| ESX-TEST-CON | Test-vMotion-B | vNIC10 | ESX Test vMotion vNIC Fabric B | CDP-En-LnkDwn | B | MacEsxTest\_B | vMotion | 12 | TestOrg | VMWare | 9000 |
| KVM-PROD-CON | Prod-KVM-App-A | vNIC1 | vNIC Template for Production KVM Application vNIC side A | CDP-En-LnkDwn | A | MacKvmProd\_A | ProdApp | 3 | ProdOrg | Linux | 9000 |
| KVM-PROD-CON | Prod-KVM-App-B | vNIC2 | vNIC Template for Production KVM Application vNIC side B | CDP-En-LnkDwn | B | MacKvmProd\_B | ProdApp | 4 | ProdOrg | Linux | 9000 |
| KVM-PROD-CON | Prod-Backup-A | vNIC3 | vNIC Template for Production KVM Application vNIC side A | CDP-En-LnkDwn | A | MacKvmProd\_A | Backups | 5 | ProdOrg | Linux | 9000 |
| KVM-PROD-CON | Prod-Backup-B | vNIC4 | vNIC Template for Production KVM Application vNIC side B | CDP-En-LnkDwn | B | MacKvmProd\_B | Backups | 6 | ProdOrg | Linux | 9000 |
| KVM-PROD-CON | Prod-IpStorage-A | vNIC5 | vNIC Template for Production KVM Application vNIC side A | CDP-En-LnkDwn | A | MacKvmProd\_A | IPStorage | 7 | ProdOrg | Linux | 9000 |
| KVM-PROD-CON | Prod-IpStorage-B | vNIC6 | vNIC Template for Production KVM Application vNIC side B | CDP-En-LnkDwn | B | MacKvmProd\_B | IPStorage | 8 | ProdOrg | Linux | 9000 |
| KVM-PROD-CON | Prod-KVM-Mgmt-A | vNIC7 | vNIC Template for Production KVM Application vNIC side A | CDP-En-LnkDwn | A | MacKvmProd\_A | Management | 9 | ProdOrg | Linux | 9000 |
| KVM-PROD-CON | Prod-KVM-Mgmt-B | vNIC8 | vNIC Template for Production KVM Application vNIC side B | CDP-En-LnkDwn | B | MacKvmProd\_B | Management | 10 | ProdOrg | Linux | 9000 |
| KVM-PROD-CON | Prod-KVM-LM-A | vNIC9 | vNIC Template for Production KVM Application vNIC side A | CDP-En-LnkDwn | A | MacKvmProd\_A | vMotion | 11 | ProdOrg | Linux | 9000 |
| KVM-PROD-CON | Prod-KVM-LM-B | vNIC10 | vNIC Template for Production KVM Application vNIC side B | CDP-En-LnkDwn | B | MacKvmProd\_B | vMotion | 12 | ProdOrg | Linux | 9000 |
| KVM-TEST-CON | Test-KVM-App-A | vNIC1 | vNIC Template for Test KVM Application vNIC side A | CDP-En-LnkDwn | A | MacKvmTest\_A | ProdApp | 3 | TestOrg | Linux | 9000 |
| KVM-TEST-CON | Test-KVM-App-B | vNIC2 | vNIC Template for Test KVM Application vNIC side B | CDP-En-LnkDwn | B | MacKvmTest\_B | ProdApp | 4 | TestOrg | Linux | 9000 |
| KVM-TEST-CON | Test-Backup-A | vNIC3 | vNIC Template for Test KVM Application vNIC side A | CDP-En-LnkDwn | A | MacKvmTest\_A | Backups | 5 | TestOrg | Linux | 9000 |
| KVM-TEST-CON | Test-Backup-B | vNIC4 | vNIC Template for Test KVM Application vNIC side B | CDP-En-LnkDwn | B | MacKvmTest\_B | Backups | 6 | TestOrg | Linux | 9000 |
| KVM-TEST-CON | Test-IpStorage-A | vNIC5 | vNIC Template for Test KVM Application vNIC side A | CDP-En-LnkDwn | A | MacKvmTest\_A | IPStorage | 7 | TestOrg | Linux | 9000 |
| KVM-TEST-CON | Test-IpStorage-B | vNIC6 | vNIC Template for Test KVM Application vNIC side B | CDP-En-LnkDwn | B | MacKvmTest\_B | IPStorage | 8 | TestOrg | Linux | 9000 |
| KVM-TEST-CON | Test-KVM-Mgmt-A | vNIC7 | vNIC Template for Test KVM Application vNIC side A | CDP-En-LnkDwn | A | MacKvmTest\_A | Management | 9 | TestOrg | Linux | 9000 |
| KVM-TEST-CON | Test-KVM-Mgmt-B | vNIC8 | vNIC Template for Test KVM Application vNIC side B | CDP-En-LnkDwn | B | MacKvmTest\_B | Management | 10 | TestOrg | Linux | 9000 |
| KVM-TEST-CON | Test-KVM-LM-A | vNIC9 | vNIC Template for Test KVM Application vNIC side A | CDP-En-LnkDwn | A | MacKvmTest\_A | vMotion | 11 | TestOrg | Linux | 9000 |
| KVM-TEST-CON | Test-KVM-LM-B | vNIC10 | vNIC Template for Test KVM Application vNIC side B | CDP-En-LnkDwn | B | MacKvmTest\_B | vMotion | 12 | TestOrg | Linux | 9000 |

# UCS Storage

The following outlines the Storage elements of the UCS design.

## VSANs

VSANs will be defined as follows:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| VsanId | VsanName | Fabric | VHBA-Template-1 | VHBA-Template-2 |
| 1201 | 1201-Prod-A | A | PRD-ESX-HBA-A | PRD-KVM-HBA-A |
| 1202 | 1202-Prod-B | B | PRD-ESX-HBA-B | PRD-KVM-HBA-B |
| 1203 | 1203-Test-A | A | TEST-ESX-HBA-A | TEST-KVM-HBA-A |
| 1204 | 1204-Test-B | B | TEST-ESX-HBA-B | TEST-KVM-HBA-B |

## WWNN Pools

WWNN Pools will be defined as follows:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Name | Desc | StartWWNN | EndWWNN | AssignmentOrder | Org |
| ProdWwnnPool | WWNN Pool For Production Hosts | 20:00:00:25:B5:00:00:00 | 20:00:00:25:B5:00:00:7F | sequential | ProdOrg |
| TestWwnnPool | WWNN Pool For Test Hosts | 20:00:00:25:B5:00:0a:00 | 20:00:00:25:B5:00:0a:7F | sequential | TestOrg |

## WWPN Pools

WWPN Pools will be defined as follows:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Name | Desc | StartWWPN | EndWWPN | AssignmentOrder | Org |
| ProdWwpnPool-A | WWPN Pool For Production Hosts Side A | 20:00:00:25:b5:01:0a:00 | 20:00:00:25:B5:01:0A:FF | sequential | ProdOrg |
| ProdWwpnPool-B | WWPN Pool For Production Hosts Side B | 20:00:00:25:b5:01:0b:00 | 20:00:00:25:B5:01:0b:FF | sequential | ProdOrg |
| TestWwpnPool-A | WWPN Pool For Production Hosts Side A | 20:00:00:25:b5:01:1a:00 | 20:00:00:25:B5:01:1A:FF | sequential | TestOrg |
| TestWwpnPool-B | WWPN Pool For Production Hosts Side B | 20:00:00:25:b5:01:1b:00 | 20:00:00:25:B5:01:1b:FF | sequential | TestOrg |