Okay, here are all the playbooks consolidated into a single list, with the citation links removed and the 'Notes:' section positioned directly below the last option for each question.

**Playbook 1: AI-DC Training Clusters**

*Theme: Understanding the prospect's AI workload, scale, and architecture needs.*

**1. What is the primary intended use case for your AI data center cluster?**

* Primarily AI Model Training
* Primarily AI Model Inference
* Hybrid: Both Training and Inference
* Data Processing and Preparation
* Unsure / Still Defining

Notes:

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**2. What is the anticipated scale of your GPU cluster, both initially and for future expansion?**

* Small Scale (e.g., < 128 GPUs / Single Stripe)
* Medium Scale (e.g., 128 - 1024 GPUs / Single Pod)
* Large Scale (e.g., Multiple Pods / > 1024 GPUs)
* Very Large Scale (e.g., Multi-Site Deployment)
* To be determined

Notes:

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**3. Do you require multitenancy (isolating different users or projects)? If so, at what level?**

* No multitenancy required (Single Tenant)
* Yes, Server-level Isolation (Assigning whole servers to tenants)
* Yes, GPU-level Isolation (Assigning specific GPUs within servers to tenants)
* Unsure about multitenancy requirements
* Other (Please Specify)

Notes:

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**4. How important is implementing a rail-optimized network design (connecting specific GPUs to dedicated leaf switches) to minimize network interference for your workloads?**

* Critically Important - Essential for our performance needs.
* Very Important - Strongly preferred for optimal communication.
* Moderately Important - Beneficial but not a strict requirement.
* Not Important - Standard network designs are sufficient.
* Unsure / Need more information

Notes:

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**5. Does your architecture plan include physically separate network fabrics for Backend Compute (GPU-to-GPU), Backend Storage, and Frontend Management/Scheduling?**

* Yes, fully separate fabrics are planned.
* Considering separate fabrics, but might converge some.
* No, planning a converged network fabric.
* Unsure about the fabric separation strategy.
* Other (Please Specify)

Notes:

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**Playbook 2: Hardware and Optics**

*Theme: Aligning hardware choices with the validated design components.*

**1. What network speeds are you targeting for your backend compute (GPU-to-GPU) fabric links?**

* 400G (As used in the validated design)
* 800G (Mentioned as possible scale-out option)
* 200G
* 100G
* Other / Undecided

Notes:

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**2. What type of optical or copper connectivity are you planning to use between servers and switches?**

* Active Optical Cables (AOCs - used in validation)
* Direct Attach Copper (DACs - used in validation for storage/frontend)
* Transceivers with separate fiber cables (used in validation)
* A mix of the above
* Undecided

Notes:

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**3. Have you estimated the maximum power draw and heat generation for your planned compute nodes? (e.g., The SR685a V3 with 8x MI300X draws ~9.4kW)**

* Yes, detailed estimates are available and align with high-density GPUs.
* Yes, preliminary estimates are available.
* No, but aware of the high power/cooling requirements.
* No, power and cooling analysis has not been performed yet.
* Require assistance with power/cooling estimation.

Notes:

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**4. Are you considering specific network hardware, such as the Nokia 7220 IXR series switches used in this validated design (H4, D5, D3L)?**

* Yes, planning to use the specified Nokia models.
* Considering Nokia switches, potentially different models.
* Considering switches from other vendors.
* Hardware selection is still open.
* Require recommendations based on needs.

Notes:

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**Playbook 3: Network Orchestration**

*Theme: Gauging interest in automated fabric management and specific network features.*

**1. How important is leveraging a declarative, automated network orchestration platform like Nokia EDA for deploying and managing the AI fabric lifecycle?**

* Extremely Important - Automation is a key requirement.
* Very Important - Strong preference for automated management.
* Moderately Important - Interested, but manual configuration is also possible.
* Not a Priority - Planning manual configuration or using existing tools.
* Unfamiliar with EDA / Need more information.

Notes:

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**2. Is Zero-Touch Provisioning (ZTP) for automatically onboarding and configuring new fabric switches a requirement for your deployment?**

* Yes, ZTP is a mandatory requirement.
* Yes, ZTP is highly desirable.
* ZTP is a nice-to-have feature.
* No, manual onboarding is acceptable.
* Unsure about ZTP needs.

Notes:

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**3. What is your team's preferred method for defining and deploying network configurations within an automation platform?**

* Declarative manifests (e.g., YAML files, as used by EDA)
* Graphical User Interface (GUI - available in EDA)
* Command Line Interface (CLI) scripts
* Existing custom automation tools
* Primarily manual CLI configuration

Notes:

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**4. How critical is the automated configuration and management of Quality of Service (QoS) features like ECN and PFC to ensure a lossless fabric for RoCEv2 traffic?**

* Critically Important - Lossless RoCEv2 is essential.
* Very Important - Need reliable RoCEv2 performance.
* Moderately Important - QoS is needed but can be tuned manually.
* Less Important - RoCEv2 performance is not the primary concern.
* Unsure about ECN/PFC requirements.

Notes:

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**5. Do you plan to utilize IP Virtual Routing and Forwarding (IP VRFs) for network segmentation or multitenancy, similar to the "node isolation groups" described in the validated design?**

* Yes, planning to use IP VRFs extensively for isolation.
* Considering IP VRFs for specific segmentation needs.
* Exploring other segmentation methods (e.g., VLANs, EVPN).
* No, segmentation is not a primary requirement or will be handled differently.
* Unsure / Need guidance on segmentation strategy.

Notes:

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**Playbook 4: Backend GPU, Storage, and Frontend Management**

*Theme: Understanding the server, OS, software stack, and storage integration details.*

**1. Are you planning to deploy GPU servers similar to the Lenovo SR685a V3 with 8x AMD MI300X accelerators, as featured in the validated design?**

* Yes, planning to use this specific configuration.
* Yes, using similar Lenovo servers with AMD GPUs.
* Planning to use AMD GPUs in servers from other vendors.
* Planning to use GPUs from other vendors (e.g., Nvidia).
* Server and GPU selection is still undecided.

Notes:

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**2. What is your preferred GPU vendor and model series for this AI infrastructure project?**

* AMD Instinct MI300 Series (as used in the validated design)
* Other AMD Instinct Series
* Nvidia H100/H200 Series
* Other Nvidia Series (e.g., A100, Grace Hopper)
* Other vendor / Undecided

Notes:

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**3. How do you plan to manage server BIOS and adapter firmware updates?**

* Centralized management tool (e.g., Lenovo XClarity One)
* Manually via each server's Baseboard Management Controller (BMC/XCC)
* Scripting / Automation (e.g., Redfish API, OneCLI)
* Rely on vendor/integrator for updates.
* Update strategy not yet defined.

Notes:

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**4. What operating system do you plan to use on the GPU servers, and are you prepared to apply specific BIOS settings and OS-level tunings (e.g., disabling C-states, setting CPU governor, grub parameters) for optimal performance as recommended?**

* Ubuntu 22.04 LTS (as used in validation) and comfortable with tuning.
* Other Linux distribution (e.g., RHEL, SLES) and comfortable with tuning.
* Planning to use a specific OS but need assistance with tuning.
* Prefer minimal OS-level tuning.
* OS selection and tuning approach are undecided.

Notes:

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**5. Does your solution require integration with a high-performance parallel filesystem like Lustre, potentially using dedicated storage nodes (e.g., DDN AI400X2T)?**

* Yes, planning to use Lustre with dedicated storage nodes similar to DDN.
* Yes, planning to use Lustre, but with different storage hardware.
* Considering other parallel filesystems (e.g., GPFS, BeeGFS).
* Planning to use NFS or other standard network storage.
* Storage solution is not yet decided.

Notes:

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**6. Does your software stack rely on AMD's ROCm platform and the RCCL communication library? Are you prepared for potential custom compilation steps for tools like RCCL-tests or perftest?**

* Yes, ROCm/RCCL are core components, and we can handle custom compilations.
* Yes, planning to use ROCm/RCCL, but prefer pre-compiled packages if possible.
* Unsure about the specific communication libraries needed (e.g., might use NCCL for Nvidia).
* Software stack is based on different technologies.
* Software stack details are still being defined.

Notes:

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**Playbook 5: Validation and Performance Testing**

*Theme: Defining expectations for validating the deployed solution.*

**1. How critical is validating the RDMA over Converged Ethernet (RoCEv2) network performance using tools like perftest compiled with ROCm support to ensure GPU memory bandwidth meets expectations?**

* Essential - We need detailed validation of RoCEv2 bandwidth using GPU memory.
* Important - We need to confirm RoCEv2 performance, tool specifics flexible.
* Beneficial - Basic connectivity and bandwidth tests are sufficient.
* Low Priority - RoCEv2 performance validation is not a major focus.
* Unsure about RoCEv2 validation needs.

Notes:

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**2. Do you intend to benchmark the cluster's performance using industry-standard suites like MLPerf for specific AI models relevant to your workloads (e.g., Llama2 70B)?**

* Yes, MLPerf benchmarking for specific models is a requirement.
* Yes, interested in MLPerf or similar standardized benchmarks.
* Planning to use custom or application-specific benchmarks.
* Benchmarking is important, but specific methodology is undecided.
* Performance benchmarking is a lower priority post-deployment.

Notes:

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**3. How important is systematically validating the network configuration (e.g., node labels, interface settings, QoS policies, VRF assignments) deployed by the orchestration platform (EDA)?**

* Very Important - Need thorough validation that the deployed state matches intent.
* Important - Need checks on key configuration items.
* Somewhat Important - Basic connectivity checks are likely sufficient.
* Not a Priority - Rely on functional testing to imply correct configuration.
* Unsure about the required level of configuration validation.

Notes:

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**4. Are specific, measurable performance targets (e.g., inference tokens/second, model training time in minutes, minimum network bandwidth) defined as success criteria for validation?**

* Yes, strict performance KPIs are defined.
* Yes, general performance targets are defined.
* Performance goals are qualitative (e.g., "fast," "efficient").
* No specific performance targets are set for initial validation.
* Performance targets are still under discussion.

Notes:

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**5. Do you require performance test reports that detail network bandwidth achieved across all GPU NICs and potentially analyze the impact of different RoCE MTU sizes?**

* Yes, detailed reports showing bandwidth per NIC and MTU impact are required.
* Yes, summary reports showing overall achieved bandwidth are needed.
* Performance reporting needs are minimal (e.g., pass/fail).
* No formal performance reports required.
* Reporting requirements are undecided.

Notes:

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**Playbook 6: Telemetry**

*Theme: Assessing requirements for monitoring and visualizing the AI fabric.*

**1. How important is real-time visibility into the network fabric's health and performance using streaming telemetry (e.g., gNMI)?**

* Critically Important - Real-time monitoring is essential for operations.
* Very Important - Need near real-time insights into network status.
* Moderately Important - Periodic polling (e.g., SNMP) might be sufficient.
* Low Priority - Basic device reachability monitoring is enough.
* Monitoring requirements are not yet defined.

Notes:

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**2. What tools are you planning to use for collecting, storing, and visualizing time-series telemetry data? Is the Prometheus & Grafana stack (used in the design) a possibility?**

* Planning to use Prometheus and Grafana.
* Considering Prometheus and Grafana among other options.
* Have an existing monitoring stack (Please specify).
* Monitoring tool selection is undecided.
* Require recommendations for monitoring tools.

Notes:

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**3. Do you require the ability to customize which metrics are exported from the network devices (e.g., interface counters, ECN/PFC statistics, buffer usage) and add specific labels for filtering/aggregation?**

* Yes, extensive customization of exported metrics and labels is needed.
* Yes, some customization is required for key metrics.
* Default metrics provided by the system are likely sufficient.
* Unsure about specific metric customization needs.
* Detailed metric requirements have not been defined.

Notes:

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**4. Would you prefer deploying the telemetry collection stack (Prometheus/Grafana) using automated methods like Helm charts, potentially within the same Kubernetes cluster as the network orchestrator (EDA)?**

* Yes, deploying via Helm within the EDA cluster is ideal.
* Yes, deploying via Helm, but potentially in a separate cluster.
* Prefer manual installation and configuration of monitoring tools.
* Have an existing central monitoring infrastructure to integrate with.
* Deployment method for monitoring tools is undecided.

Notes:

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**5. How important is having pre-built Grafana dashboards specifically designed for visualizing AI fabric health, link utilization, and identifying potential congestion points?**

* Very Important - Pre-built, AI-fabric-specific dashboards are highly desirable.
* Important - Some pre-built dashboards would be helpful starting points.
* Moderately Important - We plan to build custom dashboards regardless.
* Low Priority - Dashboarding needs are minimal or handled by other tools.
* Unsure about dashboarding requirements.

Notes:

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**Playbook 7: Digital Twin**

*Theme: Exploring the value of simulation for design validation and operational practice.*

**1. How valuable do you perceive a "digital twin" (a virtual simulation) of your proposed AI network fabric for validating the design and testing configurations *before* physical deployment?**

* Extremely Valuable - Essential for de-risking deployment and testing changes.
* Very Valuable - Would significantly improve confidence and reduce errors.
* Moderately Valuable - Could be useful for specific complex scenarios.
* Slightly Valuable - Nice-to-have but not critical.
* Not Valuable / No requirement for simulation.

Notes:

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**2. Would you utilize a digital twin for ongoing operational tasks, such as testing software upgrades, validating configuration changes, or training network operations staff?**

* Yes, plan to integrate it into regular operational workflows.
* Likely to use it for major changes and upgrades.
* Potentially use it for training purposes.
* Unlikely to use it beyond initial design validation.
* No plans to use a digital twin for operational tasks.

Notes:

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**3. Are you familiar with or open to using tools like Containerlab and containerized network operating systems (like SR Linux) to build and run this digital twin?**

* Yes, familiar with Containerlab/cEOS/cSRL and plan to use them.
* Open to using these tools, but would require guidance/support.
* Prefer using other network simulation platforms (e.g., GNS3, EVE-NG).
* Have no experience with network simulation tools.
* Digital twin tool selection is dependent on vendor support.

Notes:

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**4. How important is it that the digital twin can replicate the specific configuration and automation workflows (e.g., using Nokia EDA) intended for the physical fabric?**

* Critically Important - Must accurately reflect the physical deployment and management.
* Very Important - Should closely mirror the physical setup for meaningful tests.
* Moderately Important - Simulating basic connectivity and routing is sufficient.
* Low Priority - A generic network simulation would suffice.
* Unsure about the required fidelity of the simulation.

Notes:

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