Here’s how the **Cluster Overview** section would look as a table:

**Cluster Overview Table Example**

|  |  |
| --- | --- |
| **Field** | **Details** |
| **Cluster Name** |  |
| **Cluster Region** |  |
| **Cluster Version** |  |
| **VPC ID** |  |
| **Subnets** |  |
| **Public Subnets** |  |
| **Private Subnets** |  |
| **Cluster Creation Date** |  |
| **Primary Contact for Cluster** |  |

**Complete Template with Tables for Each Section**

Here’s an example of how you can convert each section into tables for better structure and organization:

**1. Cluster Overview**

|  |  |
| --- | --- |
| **Field** | **Details** |
| **Cluster Name** |  |
| **Cluster Region** |  |
| **Cluster Version** |  |
| **VPC ID** |  |
| **Subnets** |  |
| **Public Subnets** |  |
| **Private Subnets** |  |
| **Cluster Creation Date** |  |
| **Primary Contact for Cluster** |  |

**2. Nodes and Compute Resources**

|  |  |
| --- | --- |
| **Field** | **Details** |
| **Number of Nodes** |  |
| **Node Type (EC2, Fargate, etc.)** |  |
| **Instance Type** |  |
| **AMI Used** |  |
| **Auto-scaling Configurations** | Min: | Max: | Desired: |
| **Worker Node Groups** |  |
| **Node Group Names** |  |
| **Scaling Policies** |  |
| **GPU/Other Special Node Types** |  |

**3. Networking**

|  |  |
| --- | --- |
| **Field** | **Details** |
| **Cluster Networking CNI Version** |  |
| **Networking Plugins** | (e.g., Calico, Cilium) |
| **Service CIDR** |  |
| **Pod CIDR** |  |
| **NAT Gateway Configuration** |  |
| **Load Balancer Configurations** |  |
| **ALBs/NLBs in use** |  |
| **Ingress Configurations** | Controller: | SSL/TLS Configurations: |

**4. Security & Access Control**

|  |  |
| --- | --- |
| **Field** | **Details** |
| **IAM Roles** | Cluster Role: | Node Roles: | Additional Roles: |
| **Kubernetes RBAC Configurations** | Admin Groups: | Service Accounts: |
| **Security Groups** | Nodes: | Control Plane: |
| **Vulnerability Scanning** | Tools Used (e.g., Aqua, Falco): |
| **Encryption at Rest** | KMS Keys: |

**5. Storage**

|  |  |
| --- | --- |
| **Field** | **Details** |
| **Persistent Volume Claims (PVCs)** |  |
| **Attached Persistent Volumes** | (EBS, EFS, etc.) |
| **Storage Classes in Use** |  |
| **Data Retention Policies** | Backup Strategies: | Retention Period: |

**6. Monitoring & Logging**

|  |  |
| --- | --- |
| **Field** | **Details** |
| **Monitoring Tools** | (CloudWatch, Prometheus, Grafana, etc.) |
| **Dashboards** | URLs: | Key Metrics Tracked: (CPU, Memory, etc.) |
| **Logging Tools** | (CloudWatch, Fluentd, etc.) |
| **Log Retention Policies** |  |

**7. Workloads**

|  |  |
| --- | --- |
| **Field** | **Details** |
| **Namespaces** | Purpose of each namespace: |
| **Critical Deployments** | Replicas: | Pod Types: |
| **CronJobs/Jobs** | Scheduled Jobs: | Backup/Restore Jobs: |
| **HPA (Horizontal Pod Autoscaling)** | Min: | Max: | Metrics: |
| **Ingress Services** | URLs: | Certificates: |
| **Architecture Diagrams** | Attach or link architecture diagrams. |

**8. Add-ons and Integrations**

|  |  |
| --- | --- |
| **Field** | **Details** |
| **Kubernetes Add-ons** | CoreDNS Version: | Kube-proxy Version: |
| **Third-party Integrations** | ArgoCD, Helm, Jenkins, Keycloak, etc. |
| **Links to Add-on Documentation** |  |

**9. Backups & Disaster Recovery**

|  |  |
| --- | --- |
| **Field** | **Details** |
| **Backup Strategy** | Frequency: | Retention: | Tool: |
| **Disaster Recovery Plan** | Key Contacts: | Failover/Recovery Procedures: |

**10. Current Issues and Risks**

|  |  |
| --- | --- |
| **Field** | **Details** |
| **Known Issues** | Open Bugs: | Pending Upgrades: |
| **Technical Debt** | Areas for improvement: |
| **Monitoring Alerts** | Active Alerts: Severity: |

**11. Maintenance and Support Procedures**

|  |  |
| --- | --- |
| **Field** | **Details** |
| **Regular Maintenance Tasks** | EKS Upgrades: | Node Group Updates: | Patches: |
| **Support Escalation Procedures** | Key Contacts: | Slack/Phone: |
| **Change Management Process** | Approval Requirements: | Maintenance Windows: |

**EKS Cluster Support Handover Document**

**1. Cluster Overview**

* **Cluster Name**:
* **Cluster Region**:
* **Cluster Version**:
* **VPC ID**:
* **Subnets**:
  + Public:
  + Private:
* **Cluster Creation Date**:
* **Primary Contact for Cluster** (if applicable):

**2. Nodes and Compute Resources**

* **Number of Nodes**:
  + **Node Type** (EC2, Fargate, etc.):
  + **Instance Type**:
  + **AMI Used**:
  + **Auto-scaling Configurations**:
    - Min Instances:
    - Max Instances:
    - Desired Instances:
* **Worker Node Groups**:
  + Node Group Names:
  + Scaling Policies:
* **GPU/Other Special Node Types** (if applicable):

**3. Networking**

* **Cluster Networking CNI Version**:
* **Networking Plugins** (e.g., Calico, Cilium):
* **Service CIDR**:
* **Pod CIDR**:
* **NAT Gateway Configuration**:
* **Load Balancer Configurations**:
  + ALBs/NLBs in use:
  + External/Internal Load Balancers:
* **Ingress Configurations**:
  + Controller:
  + SSL/TLS Configurations:

**4. Security & Access Control**

* **IAM Roles**:
  + Cluster Role:
  + Node Roles:
  + Additional Roles:
* **Kubernetes RBAC Configurations**:
  + Admin Groups/Users:
  + Service Accounts with elevated privileges:
* **Security Groups**:
  + Nodes:
  + Control Plane:
* **Vulnerability Scanning**:
  + Current Tools (e.g., Aqua, Falco, etc.):
* **Encryption at Rest**:
  + KMS Keys in Use:

**5. Storage**

* **Persistent Volume Claims (PVCs)**:
  + Attached Persistent Volumes (EBS, EFS, etc.):
  + Storage Classes in Use:
* **Data Retention Policies**:
  + Backup Strategies:
  + Retention Period:

**6. Monitoring & Logging**

* **Monitoring Tools** (CloudWatch, Prometheus, Grafana, etc.):
* **Dashboards**:
  + URLs:
  + Key Metrics Tracked (CPU, Memory, Network, etc.):
* **Logging Tools** (CloudWatch, Fluentd, etc.):
* **Log Retention Policies**:

**7. Workloads**

* **Namespaces**:
  + Purpose of each namespace:
* **Critical Deployments**:
  + Number of replicas, types of pods (e.g., stateful sets, daemon sets):
* **CronJobs/Jobs**:
  + Scheduled Jobs:
  + Backup/Restore Jobs:
* **HPA (Horizontal Pod Autoscaling)**:
  + Configured Metrics:
  + Min/Max Pods:
* **Ingress Services**:
  + URLs, Certificates:
* **Architecture Diagrams for Workloads**:
  + Provide a description or upload architecture diagrams for each critical workload (if applicable).

**8. Add-ons and Integrations**

* **Kubernetes Add-ons**:
  + CoreDNS Version:
  + Kube-proxy Version:
  + Any other custom add-ons (e.g., service mesh, logging, etc.):
* **Third-party Integrations**:
  + Tools like ArgoCD, Helm, Jenkins, Keycloak, etc.
* **Links to Add-on Documentation** (if applicable):
  + Provide documentation links for key add-ons or integrations.

**9. Backups & Disaster Recovery**

* **Backup Strategy**:
  + Frequency:
  + Backup Retention:
  + Backup Tool:
* **Disaster Recovery Plan**:
  + Key Contacts:
  + Procedures for Failover/Recovery:
  + Recovery Time Objective (RTO) and Recovery Point Objective (RPO):

**10. Current Issues and Risks**

* **Known Issues**:
  + Open Bugs:
  + Pending Upgrades:
  + Temporary Fixes:
* **Technical Debt**:
  + Areas in need of improvement:
  + Deprecated APIs or services:
* **Monitoring Alerts**:
  + Current active alerts and their severity:

**11. Maintenance and Support Procedures**

* **Regular Maintenance Tasks**:
  + EKS Version Upgrades:
  + Node Group Updates:
  + Security Patch Application:
* **Support Escalation Procedures**:
  + Key Contacts:
  + Slack/Email/Phone for High-Severity Issues:
* **Change Management Process**:
  + Approval Requirements:
  + Maintenance Windows:

**Additional Recommendations:**

1. **Diagram Slots**: For each major component, provide a space or link for architecture diagrams (e.g., network topology, workload architectures, etc.).
2. **Links to Documentation**: Add links to external documentation (AWS docs, Kubernetes official docs, etc.) or internal knowledge base articles where needed.
3. **Workload Descriptions**: Ensure each workload is described clearly, with its dependencies, critical configurations, and SLA information.
4. **Performance and Cost Optimization**: Consider documenting any strategies or tools used to monitor performance and cost optimizations for the cluster.