 

**Placement Empowerment Program**

***Cloud Computing and DevOps Centre***

* Set Up a Cloud-Based Monitoring ServiceEnable basic cloud monitoring (e.g., CloudWatch on AWS). View metrics like CPU usage and disk I/O for your cloud VM

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**Prerequisites:**

* A cloudnvironment (e.g., AWS, Google Cloud, Azure) with access to deploy virtual machines or containers.
* Basicowdge of command-line interfaces and system administration.

**Step 1:ovision a Virtual Machine**

1. **Choose a Cloud Provider**: Select your pferred cloud provider and create a new virtual machine (VM) instance. Ensure the VM meets the necessary system requirements for running Prometheus.
2. **ConfiguSecurity Groups/Firewall Rules**: Allow inbound trfic on the ports used by Prometheus (default is TCP port 9090).

**Step 2: InstaPrometheus**

1. **Connect to the VM**: Use SSH to connect your VM instance.
2. **Download Promeus**: Navigate to the [Promeeus downloads page](https://prometheus.io/download/) and obtain the latest version suitable for your operating system.



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**Configure Prometheus**dit the prometheus.yml confiration file to define the monitoring targets. For example, to monitor the local machine:

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**Step 3: Install Node Exporter**o monitor system metrics of the VM, stall the Node Exporter:

1. **Download Node Exporter**:



1. **Extract and Run**:

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**Step 4: Start Prometheus**

Run Promethewith the configured settings:



**Step 5: Access the Prometheus Dashboard**

Opeour web browser and navigate to `http://<your--ip>:9090` to access the Prometheus web interface.

**Step 6: Set Up Alerting (Optional):** Prometheus be configured to send alerts based on spific conditions:A computer screen with text on it

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**Configure Alertmanager**: Install and configure [Alertmger](https://prometheus.io/docs/erting/latest/alertmanager/) to handle alerts sent by Prometheus.

**Additional Resources:**

* [Prometheus Documentation](https://chatgpt.com/ometheus.io/docs/introduction/erview/)
* [PrometheusGitHubRepository]
* (<https://github.com/prometheus/promeu>)

**Conclusion:**

By following these steps, you can set up a cloud-based monitoring seresing Prometheus to effectively monitor your applications and infrastructure.